DE
Original

LEISTUNGSERKLÄRUNG

DoP85
Brandschutzabschottung

GEBERIT

1. Eindeutiger Kenncode des Produkttyps:

Die Brandschutzabschottung mit Streckenisolierung besteht aus:

- Rohrschale ROCKWOOL 800
- Fugenfüller
- Geberit Systemrohre:
  - Geberit Mapress Edelstahl Systemrohr CrNi (1.4301)
  - Geberit Mapress Edelstahl Systemrohr CrNiMo (1.4401)
  - Geberit Mapress Edelstahl Systemrohr CrMoTi (1.4521)
  - Geberit Mapress C-Stahl Systemrohr aussen verzinkt
  - Geberit Mapress C-Stahl Systemrohr innen und aussen verzinkt
  - Geberit Mapress C-Stahl Systemrohr kunststoffummantelt
  - Geberit Mepla Systemrohr ML
  - Geberit Mepla Systemrohr ML, MeplaTherm
  - Geberit Systemrohr PB
  - Geberit Systemrohr ML
  - Geberit Systemrohr ML, Therm
  - Geberit PushFit Systemrohr ML
- Kupferrohr (Metallrohre Klasse A1)

2. Verwendungszweck(e):

Die "Brandschutzabschottung mit Streckenisolierung" ist zur Verwendung als Rohrabschottung zur temporären oder permanenten Aufrechterhaltung des Feuerwiderstandes an Öffnungen in Leichtwandkonstruktionen, Massivwandkonstruktionen, Schachtwänden und Decken in Massivbauweise, durch die verschiedenste Metallrohre und Mehrschichtverbundrohre durchgeführt werden, vorgesehen.

3. Hersteller:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Schweiz
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit:

System 1

5. Europäisches Bewertungsdokument:

Europäisches Bewertungsdokument:	EAD 350454-00-1104 "Brandschutzprodukte zum Abdichten und Verschliessen von Fugen und Öffnungen und zum Aufhalten von Feuer im Brandfall - Abschottungen"
Europäische Technische Bewertung:	ETA-14/0126 vom 26.04.2021
Technische Bewertungsstelle:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Notifizierte Stelle(n):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Erklärte Leistung:

Wesentliche Merkmale		Leistung	Technische Spezifikation
	Brandverhalten	$A2_L$-s1,d0	EN 13501-1:2018
	Feuerwiderstand	Siehe Anhänge der ETA: D-1 bis D-17, F-1 bis F-17 und H-1 bis M-9 sowie 3.1.2	EN 13501-2:2016
	Luftdurchlässigkeit	NPD	EAD 350454-00-1104
	Wasserdurchlässigkeit	NPD	
	Gehalt, Emission und/oder Freisetzung gefährlicher Stoffe	NPD	
	Mechanische Festigkeit und Standsicherheit	NPD	
	Festigkeit gegenüber Stoss/Bewegung	NPD	
	Haftfähigkeit	NPD	
	Dauerhaftigkeit	Erfüllt, siehe Anhang 3.3.4	
	Luftschalldämmung	NPD	
	Wärmeschutztechnische Eigenschaften	NPD	
	Wasserdampfdurchlässigkeit	NPD	

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der oben genannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i. V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

EN
Translation

DECLARATION OF PERFORMANCE

DoP85

Fire-retardant seal

GEBERIT

1. Unique identification code of the product type:

The fire-retardant seal with section insulation consists of the following:

- ROCKWOOL 800 snap-on pipe section
- Joint filler
- Geberit system pipes:
  - Geberit Mapress Stainless Steel system pipe CrNi (1.4301)
  - Geberit Mapress Stainless Steel system pipe CrNiMo (1.4401)
  - Geberit Mapress Stainless Steel system pipe CrMoTi (1.4521)
  - Geberit Mapress Carbon Steel system pipe, outside zinc-plated
  - Geberit Mapress Carbon Steel system pipe, inside and outside zinc-plated
  - Geberit Mapress Carbon Steel system pipe, plastic-jacketed
  - Geberit Mepla system pipe ML
  - Geberit Mepla system pipe ML, MeplaTherm
  - Geberit system pipe PB
  - Geberit system pipe ML
  - Geberit system pipe ML, Therm
  - Geberit PushFit system pipe ML
- Copper pipe (metal pipe class A1)

2. Application purpose(s):

The "fire-retardant seal with section insulation" is intended for use as a penetration seal for the temporary or permanent maintenance of fire resistance at openings in lightweight wall constructions, solid wall constructions, duct walls and ceilings in solid constructions, through which the different metal pipes and multilayer pipes are fed.

3. Manufacturer:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Switzerland
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(s) for evaluating and checking constancy of performance:

System 1

5. European Assessment Document:

European Assessment Document:	EAD 350454-00-1104 "Fire protection products for sealing and closing joints and openings and for holding back fire - fire-retardant seals"
European Technical Assessment:	ETA-14/0126 dated 26.04.2021
Technical Assessment Body:	Austrian Institute of Construction Engineering (OIB), Schenkenstrasse 4, 1010 Vienna, Austria
Notified body(ies):	No. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Brunswick, Germany

6. Declared performance:

Essential characteristics		Performance	Technical specification
	Reaction to fire	$A2_L$-s1,d0	EN 13501-1:2018
	Resistance to fire	See the European Technical Assessment Annexes: D-1 to D-17, F-1 to F-17 and H-1 to M-9 as well as 3.1.2	EN 13501-2:2016
	Air permeabiliity	NPD	EAD 350454-00-1104
	Water permeability	NPD	
	Content, emission and/or release of dangerous substances	NPD	
	Mechanical resistance and stability	NPD	
	Resistance to impact/movement	NPD	
	Adhesion	NPD	
	Durability	Fulfilled, see Annex 3.3.4	
	Airborne sound insulation	NPD	
	Thermal properties	NPD	
	Water vapour permeability	NPD	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

ppa Taubert

i.V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

FR
Traduction

DÉCLARATION DES PERFORMANCES

DoP85

Protection incendie

GEBERIT

1. Code d'identification unique du type de produit :

La protection incendie avec isolation de tronçons de tuyauterie comprend :

- coquille concentrique ROCKWOOL 800
- pâte d'étanchéité pour joints
- tubes Geberit :
  - Tube Geberit Mapress Acier Inox CrNi (1.4301)
  - Tube Geberit Mapress Acier Inox CrNiMo (1.4401)
  - Tube Geberit Mapress Acier Inox CrMoTi (1.4521)
  - Tube Geberit Mapress Acier Carbone extérieur galvanisé
  - Tube Geberit Mapress Acier Carbone intérieur et extérieur galvanisés
  - Tube Geberit Mapress Acier Carbone sous revêtement synthétique
  - Tube multicouche Geberit Mepla
  - Tube multicouche Geberit Mepla, MeplaTherm
  - Tube PB Geberit
  - Tube multicouche Geberit
  - Tube multicouche Geberit, Therm
  - Tube multicouche Geberit PushFit
- tube de cuivre (tubes métalliques de classe A1)

2. Utilisation(s) :

La « protection incendie avec isolation de tronçons de tuyauterie » est prévue pour calfeutrer des tuyauteries en vue d'offrir une résistance temporaire ou permanente au feu dans les ouvertures pratiquées dans des parois légères, des murs massifs, des parois de gaine et des plafonds en construction massive, traversées par les tubes métalliques et tubes multicouche les plus divers.

3. Fabricant :

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Suisse
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Système(s) d'évaluation et de vérification de la constance des performances :

Système 1

5. Document d'évaluation européen :

Document d'évaluation européen :	EAD 350454-00-1104 « Produits de calfeutrement et de compartimentage au feu - Calfeutrements de pénétration »
Evaluation technique européenne :	ETA-14/0126 du 26.04.2021
Organisme d'évaluation technique :	Institut autrichien des techniques de construction (OIB), Schenkenstrasse 4, 1010 Vienne, Autriche
Organisme(s) notifié(s) :	N° 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Brunswick, Allemagne

6. Performance déclarée :

Caractéristiques essentielles		Performance	Spécification technique
	Réaction au feu	$A2_L$-s1,d0	EN 13501-1:2018
	Résistance au feu	Voir les annexes de l'ETA : D-1 à D-17, F-1 à F-17 et H-1 à M-9 ainsi que 3.1.2	EN 13501-2:2016
	Perméabilité à l'air	NPD	EAD 350454-00-1104
	Perméabilité à l'eau	NPD	
	Teneur, émission et/ou émanation de substances dangereuses	NPD	
	Résistance mécanique et stabilité	NPD	
	Résistance contre les chocs et le mouvement	NPD	
	Adhérence	NPD	
	Durabilité	Satisfaite, voir l'annexe 3.3.4	
	Isolation des bruits aériens	NPD	
	Propriétés de protection thermique	NPD	
	Perméabilité à la vapeur d'eau	NPD	

La performance du produit précité est conforme à la performance/aux performances déclarée(s). Le fabricant indiqué ci-dessus est seul responsable de l'établissement de la déclaration des performances, conformément au règlement (UE) n° 305/2011.

Signé pour le fabricant et en son nom par :

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

IT
Traduzione

DICHIARAZIONE DI PRESTAZIONE

DoP85

Rivestimento antincendio

GEBERIT

1. Codice di identificazione unico del tipo di prodotto:

Il rivestimento antincendio con isolamento di sezione è composto da:

- Coppella ROCKWOOL 800
- Sigillante per giunti
- Tubi Geberit:
  - Tubo Geberit Mapress Acciaio Inox CrNi (1.4301)
  - Tubo Geberit Mapress Acciaio Inox CrNiMo (1.4401)
  - Tubo Geberit Mapress Acciaio Inox CrMoTi (1.4521)
  - Tubo Geberit Mapress Acciaio al Carbonio zincato all'esterno
  - Tubo Geberit Mapress Acciaio al Carbonio zincato internamente ed esternamente
  - Tubo Geberit Mapress Acciaio al Carbonio con rivestimento sintetico
  - Tubo multistrato Geberit Mepla
  - Tubo multistrato Geberit Mepla, MeplaTherm
  - Tubo PB Geberit
  - Tubo multistrato Geberit
  - Tubo multistrato Geberit, Therm
  - Tubo multistrato Geberit PushFit
- Tubo in rame (tubi in metallo classe A1)

2. Destinazione/i d'uso:

Il "rivestimento antincendio con isolamento di sezione" è destinato al rivestimento antincendio per il mantenimento temporaneo o permanente della resistenza al fuoco in corrispondenza di aperture in costruzioni di pareti leggere, costruzioni di pareti massicce, pareti divisorie e soffitti in muratura che vengono attraversate da diversi tubi in metallo e tubi multistrato.

3. Produttore:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Svizzera
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistema/i per la valutazione e il controllo della costanza della prestazione:

Sistema 1

5. Documento per la valutazione europea:

Documento per la valutazione europea:	EAD 350454-00-1104 "Prodotti d'isolamento antincendio per la sigillatura e chiusura di fughe aperture e per arrestare il fuoco in caso di incendio - Rivestimenti antincendio"
Valutazione tecnica europea:	ETA-14/0126 del 26.04.2021
Organismo di valutazione tecnica:	Österreichisches Institut für Bautechnik (OIB) (Istituto austriaco per le Tecnologie della Costruzione), Schenkenstrasse 4, 1010 Vienna, Austria
Organismo(i) notificato(i):	N. 0761, MPA (Istituto per il controllo dei materiali da costruzione) Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Germania

6. Prestazione dichiarata:

Caratteristiche essenziali		Prestazione	Specifiche tecniche
	Comportamento in caso d'incendio	$A2_L$-s1,d0	EN 13501-1:2018
	Resistenza al fuoco	Vedere gli allegati dell'ETA: da D-1 a D-17, da F-1 a F-17 e da H-1 a M-9 come pure 3.1.2	EN 13501-2:2016
	Permeabilità all'aria	NPD	EAD 350454-00-1104
	Permeabilità all'acqua	NPD	
	Contenuto, emissione e/o rilascio di sostanze pericolose	NPD	
	Resistenza meccanica e sicurezza statica	NPD	
	Resistenza a urto e movimento	NPD	
	Adesione	NPD	
	Durabilità	Soddisfatta, vedere l'allegato 3.3.4	
	Isolamento acustico del rumore trasmesso indirettamente via aria	NPD	
	Proprietà tecniche dell'isolamento termico	NPD	
	Permeabilità al vapore acqueo	NPD	

La prestazione del suddetto prodotto corrisponde alla/e prestazione/i dichiarata/e. La responsabilità per la creazione della dichiarazione di prestazione in conformità con il regolamento (UE) N. 305/2011 è esclusivamente del fabbricante sopra indicato.

Firmato a nome e per conto di:

ppa Taubert

i. V. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

ES
Traducción

DECLARACIÓN DE PRESTACIONES

DoP85

Aislamiento contra incendios

1. Código de identificación único del producto tipo:

El aislamiento contra incendios con aislante por tramos consta de:

- coquilla ROCKWOOL 800
- relleno para juntas
- tubos Geberit:
  - Tubo Geberit Mapress Acero Inoxidable CrNi (1.4301)
  - Tubo Geberit Mapress Acero Inoxidable CrNiMo (1.4401)
  - Tubo Geberit Mapress Acero Inoxidable CrMoTi (1.4521)
  - Tubo Geberit Mapress Acero al Carbono galvanizado exteriormente
  - Tubo Geberit Mapress Acero al Carbono galvanizado interior y exteriormente
  - Tubo Geberit Mapress Acero al Carbono revestido de plástico
  - Tubo multicapa Geberit Mepla
  - Tubo multicapa Geberit Mepla, MeplaTherm
  - Tubo de PB Geberit
  - Tubo multicapa Geberit
  - Tubo multicapa Geberit, Therm
  - Tubo multicapa Geberit PushFit
- tubo de cobre (tubos metálicos clase A1)

2. Aplicación/es:

El «aislamiento contra incendios con aislante por tramos» solo puede utilizarse como aislamiento contra incendios con el objetivo de conservar de forma permanente o temporal la resistencia al fuego en los orificios de construcciones de paredes delgadas, construcciones de paredes macizas, paredes de conducto y techos en construcciones macizas, a través de los que se pasan los tubos metálicos y las tuberías multicapa.

3. Fabricante:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Suiza
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistema/s de evaluación y verificación de la constancia de las prestaciones:

Sistema 1

5. Documento de evaluación europeo:

Documento de evaluación europeo:	EAD 350454-00-1104 «Productos de aislamiento contra incendios para obturar y taponar fugas y aberturas, y para contener el fuego en caso de incendio - Aislamientos contra incendios»
Evaluación técnica europea:	ETA-14/0126 del 26-04-2021
Organismo de evaluación técnica:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Viena, Austria
Organismo/s notificado/s:	N.º 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Alemania

6. Prestaciones declaradas:

Características esenciales		Prestaciones	Especificación técnica
	Reacción al fuego	$A2_L$-s1,d0	EN 13501-1:2018
	Resistencia al fuego	Véanse los anexos de ETA: D-1 a D-17, F-1 a F-17 y H-1 a M-9, además de 3.1.2	EN 13501-2:2016
	Permeabilidad al aire	NPD	EAD 350454-00-1104
	Permeabilidad al agua	NPD	
	Contenido, emisiones y/o liberación de sustancias peligrosas	NPD	
	Resistencia mecánica y estabilidad	NPD	
	Resistencia frente a golpes y movimiento	NPD	
	Adherencia	NPD	
	Durabilidad	Cumplido, véase el anexo 3.3.4	
	Aislamiento ruido aéreo	NPD	
	Características técnicas de aislamiento térmico	NPD	
	Permeabilidad al vapor de agua	NPD	

Las prestaciones del producto antes mencionado se corresponden con la/s prestación/es declarada/s. El fabricante anteriormente mencionado es el único responsable de la elaboración de la declaración de prestaciones de conformidad con el reglamento (UE) núm. 305/2011.

Firmado por y en nombre del fabricante por:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i. V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

PT
Tradução

DECLARAÇÃO DE DESEMPENHO

DoP85
Vedação corta-fogo

GEBERIT

1. Código de identificação único do tipo de produto:

A vedação corta-fogo com isolamento por secções consiste em:

- Revestimento tubular ROCKWOOL 800
- Enchimento de juntas
- Tubos Geberit:
  - Tubo Geberit Mapress Aço inox CrNi (1.4301)
  - Tubo Geberit Mapress Aço inox CrNiMo (1.4401)
  - Tubo Geberit Mapress Aço inox CrMoTi (1.4521)
  - Tubo Geberit Mapress Aço carbono com exterior galvanizado
  - Tubo Geberit Mapress Aço carbono com interior e exterior zincado
  - Tubo Geberit Mapress Aço carbono revestido a plástico
  - Tubo tricomposto Geberit Mepla
  - Tubo tricomposto Geberit Mepla, MeplaTherm
  - Tubo de sistema PB Geberit
  - Tubo tricomposto Geberit
  - Tubo tricomposto Geberit, Therm
  - Tubo tricomposto Geberit PushFit
- Tubo de cobre (tubos de metal da Classe A1)

2. Campo(s) de aplicação:

A "vedação corta-fogo com isolamento por secções" destina-se à aplicação como divisória de tubo para a manutenção temporária ou permanente da resistência ao fogo em aberturas de construções de parede leve, construções de parede sólida, paredes de poço e tetos em construção sólida, através das quais são inseridos uma grande variedade de tubos de metal e tubos tricompostos.

3. Fabricante:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Suíça
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistema(s) de avaliação e verificação da regularidade do desempenho:

Sistema 1

5. Documento de Avaliação Europeu:

Documento de Avaliação Europeu:	EAD 350454-00-1104 "Produtos de proteção contra incêndios para vedar e fechar juntas e aberturas e para parar o fogo em caso de incêndio - Vedações corta-fogo"
Avaliação Técnica Europeia:	ETA-14/0126 de 26.04.2021
Organismo de Avaliação Técnica:	Instituto de Engenharia Civil Austríaco («Österreichisches Institut für Bautechnik», OIB), Schenkenstrasse 4, 1010, Viena, Áustria
Organismo(s) notificado(s):	N.º 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Alemanha

6. Desempenho declarado:

Características essenciais		Desempenho	Especificação técnica
	Reação ao fogo	$A2_L$-s1,d0	EN 13501-1:2018
	Resistência ao fogo	Consultar Anexos da ETA: de D-1 a D-17, de F-1 a F-17 e de H-1 a M-9, bem como 3.1.2	EN 13501-2:2016
	Permeabilidade ao ar	NPD	EAD 350454-00-1104
	Permeabilidade à água	NPD	
	Teor, emissão e/ou liberação de substâncias perigosas	NPD	
	Resistência mecânica e estabilidade	NPD	
	Estabilidade em caso de choque e deslocação	NPD	
	Aderência	NPD	
	Durabilidade	Cumprido, consultar Anexo 3.3.4	
	Isolamento de ruído aéreo	NPD	
	Propriedades técnicas da proteção térmica	NPD	
	Permeabilidade ao vapor	NPD	

O desempenho do produto supramencionado corresponde ao(s) desempenho(s) declarado(s). O fabricante supramencionado é o único responsável pela elaboração da presente declaração de desempenho em conformidade com o Regulamento (UE) n.º305/2011.

Assinado para o fabricante e em nome do fabricante em:

ppa Taubert

i.V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

NL
Vertaling

PRESTATIEVERKLARING

DoP85

Brandpreventiecompartimentering

GEBERIT

1. Unieke identificatiecode van het producttype:

De brandpreventiecompartimentering met isolatie van het buizenstelsel bestaat uit:

- Buisbuitenlaag ROCKWOOL 800
- Voegenvuller
- Geberit systeembuizen:
  - Geberit Mapress rvs systeembuis CrNi (1.4301)
  - Geberit Mapress rvs systeembuis CrNiMo (1.4401)
  - Geberit Mapress rvs systeembuis CrMoTi (1.4521)
  - Geberit Mapress C-staal systeembuis uitwendig verzinkt
  - Geberit Mapress C-staal systeembuis binnen en buiten verzinkt
  - Geberit Mapress C-staal systeembuis kunststof ommanteld
  - Geberit Mepla systeembuis ML
  - Geberit Mepla systeembuis ML, MeplaTherm
  - Geberit systeembuis PB
  - Geberit systeembuis ML
  - Geberit systeembuis ML, Therm
  - Geberit PushFit systeembuis ML
- Koperen buis (metaalbuizen klasse A1)

2. Toepassingsgebied(en):

De "brandpreventiecompartimentering met isolatie van het buizenstelsel" is bestemd voor het gebruik als een buiscompartimentering voor het tijdelijke of permanente behoud van de brandwerendheid aan openingen in lichte wandconstructies, massieve wandconstructies, schachtwanden en plafonds in massieve bouwwijze, waardoor de meest verschillende metalen buizen en meerlagenbuizen worden doorgevoerd.

3. Fabrikant:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Zwitserland
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Systeem of systemen voor de beoordeling en controle van de prestatiebestendigheid:

Systeem 1

5. Europees beoordelingsdocument:

Europees beoordelingsdocument:	EAD 350454-00-1104 "Brandpreventieproducten voor het afdichten en afsluiten van voegen en openingen en voor het tegenhouden van vuur in het geval van brand - compartimenteringen"
Europese technische beoordeling:	ETA-14/0126 van 26-04-2021
Technische beoordelingsinstantie:	Oostenrijks Instituut voor bouwtechnologie (OIB), Schenkenstrasse 4, 1010 Wenen, Oostenrijk
Aangemelde instantie(s):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Duitsland

6. Aangegeven prestatie:

Essentiële kenmerken		Prestatie	Technische specificatie
	Brandgedrag	$A2_L$-s1,d0	EN 13501-1:2018
	Brandweerstand	Zie bijlagen van de ETA: D-1 tot D-17, F-1 tot F-17 en H-1 tot M-9 evenals 3.1.2	EN 13501-2:2016
	Luchtdoorlaatbaarheid	NPD	EAD 350454-00-1104
	Waterdoorlaatbaarheid	NPD	
	Gehalte, emissie en/of vrijkomen van gevaarlijke stoffen	NPD	
	Mechanische sterkte en stabiliteit	NPD	
	Weerstand tegen schokken/beweging	NPD	
	Hechtingsvermogen	NPD	
	Duurzaamheid	Vervuld, zie bijlage 3.3.4	
	Luchtgeluidsisolatie	NPD	
	Warmte-isolatietechnische eigenschappen	NPD	
	Waterdampdoorlaatbaarheid	NPD	

De prestatie van het bovenstaande product voldoet aan de aangegeven prestatie(s). Voor het opstellen van de prestatieverklaring in overeenstemming met de verordening (EU) nr. 305/2011 is alleen de boven genoemde fabrikant verantwoordelijk.

Ondertekend voor de fabrikant en in naam van de fabrikant door:

ppa Taubert

i.V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

DA
Oversættelse

YDEEVNEDEKLARATON

DoP85

Brandhæmmende forsegling

GEBERIT

1. Varetypens unikke identifikationskode:

Den brandhæmmende forsegling med sektionsisolering består af:

- Rørskål ROCKWOOL 800
- Fugemasse
- Geberit systemrør:
  - Geberit Mapress Rustfrit systemrør CrNi (1.4301)
  - Geberit Mapress Rustfrit systemrør CrNiMo (1.4401)
  - Geberit Mapress Rustfrit systemrør CrMoTi (1.4521)
  - Geberit Mapress El-forzinket systemrør, udvendigt forzinket
  - Geberit Mapress El-forzinket systemrør, ind- og udvendigt forzinket
  - Geberit Mapress El-forzinket systemrør, plastikcoatet
  - Geberit Mepla systemrør ML
  - Geberit Mepla systemrør ML, MeplaTherm
  - Geberit systemrør PB
  - Geberit systemrør ML
  - Geberit systemrør ML, Therm
  - Geberit PushFit systemrør ML
- Kobberrør (metalrør klasse A1)

2. Anvendelse(r):

Den "brandhæmmende forsegling med sektionsisolering" må kun bruges som rørforsegling til midlertidig eller permanent opretholdelse af brandmodstanden ved åbninger i letvægskonstruktioner, massive vægge, skaktvægge og lofter i tunge konstruktioner, som de forskellige metalrør og ML-rør føres igennem.

3. Fabrikant:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Schweiz
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(er) til vurdering og kontrol af ydeevnens konstans:

System 1

5. Europæisk vurderingsdokument:

Europæisk vurderingsdokument:	EAD 350454-00-1104 "Brandbeskyttelsesprodukter til tætning og lukning af fuger og åbninger og til at hæmme ilden, hvis der skulle opstå brand - brandhæmmende forseglinger"
Europæisk teknisk vurdering:	ETA-14/0126 af 26.04.2021
Teknisk vurderingsorgan:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Østrig
Bemyndiget/-ede organ(er):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Deklareret ydeevne:

Væsentlige egenskaber		Ydeevne	Teknisk specifikation
	Reaktion ved brand	$A2_L$-s1,d0	EN 13501-1:2018
	Brandmodstand	Se mærkat til ETA: D-1 til D-17, F-1 til F-17 og H-1 til M-9 samt 3.1.2	EN 13501-2:2016
	Luftgennemtrængelighed	NPD	EAD 350454-00-1104
	Vandgennemtrængelighed	NPD	
	Indhold, emission og/eller udslip af farlige stoffer	NPD	
	Mekanisk styrke og stabilitet	NPD	
	Styrke over for stød/bevægelse	NPD	
	Hæfteevne	NPD	
	Holdbarhed	Opfyldt, se bilag 3.3.4	
	Luftlydisolering	NPD	
	Varmebeskyttelsestekniske egenskaber	NPD	
	Vanddampgennemtrængelighed	NPD	

Det nævnte produkts ydelse lever op til den deklarerede ydeevne/de deklarerede ydeevner. Ovennævnte producent er alene ansvarlig for udstedelsen af ydeevnedeklarationen i overensstemmelse med forordning (EU) nr. 305/2011.

Underskrevet for fabrikanten og på dennes vegne af:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i.V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

SV
Översättning

PRESTANDADEKLARATION

DoP85

Brandsektionering

GEBERIT

1. Produkttypens unika identifikationskod:

Brandsektioneringen med sektionsisolering består av:

- Rörisolering ROCKWOOL 800
- Fogfyllnad
- Geberit systemrör:
  - Geberit Mapress Rostfritt Stål systemrör CrNi (1,4301)
  - Geberit Mapress Rostfritt Stål systemrör CrNiMo (1,4401)
  - Geberit Mapress Rostfritt Stål systemrör CrMoTi (1,4521)
  - Geberit Mapress Elförzinkat Stål systemrör, utvändigt förzinkat
  - Geberit Mapress Elförzinkat Stål systemrör, invändigt och utvändigt förzinkat
  - Geberit Mapress Elförzinkat Stål systemrör, plastklätt
  - Geberit Mepla systemrör ML
  - Geberit Mepla systemrör ML, MeplaTherm
  - Geberit systemrör PB
  - Geberit systemrör ML
  - Geberit systemrör ML, Therm
  - Geberit PushFit systemrör ML
- Kopparrör (metallrör klass A1)

2. Tillämpning(ar):

”Brandsektioneringen med sektionsisolering” är avsedd att användas som brandsektionering för tillfälligt eller permanent upprätthållande av brandmotståndet i serviceöppningar i konstruktioner med lätta väggar, massiva väggar, schaktväggar och tak i massiv konstruktion, som olika metallrör och multilayer dras igenom.

3. Tillverkare:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Schweiz
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System för bedömning och kontroll av konstant prestanda:

System 1

5. Europeiskt bedömningsdokument:

Europeiskt bedömningsdokument:	EAD 350454-00-1104 ”Brandskyddsprodukter för tätning och tillslutning av fogar och öppningar och för att hindra eld vid brand – brandsektionering”
Europeisk teknisk bedömning:	ETA-14/0126 av den 26.04.2021
Tekniskt bedömningsorgan:	Österrikes byggtekniska institut (Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Wien, Österrike
Anmält(-da) organ:	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Angiven prestanda:

Väsentliga egenskaper		Prestanda	Teknisk specifikation
	Brandegenskaper	$A2_L$-s1,d0	EN 13501-1:2018
	Brandmotstånd	Se bilagor till ETA: D-1 till D-17, F-1 till F-17 och H-1 till M-9 samt 3.1.2	EN 13501-2:2016
	Luftgenomtränglighet	NPD	EAD 350454-00-1104
	Vattengenomtränglighet	NPD	
	Innehåll, emission och/eller utsläpp av farliga ämnen	NPD	
	Mekanisk hållfasthet och stabilitet	NPD	
	Hållfasthet mot stötar/rörelser	NPD	
	Vidhäftningsförmåga	NPD	
	Hållbarhet	Uppfyllt, se bilaga 3.3.4	
	Isolering av luftljud	NPD	
	Värmeisolerande egenskaper	NPD	
	Genomträngningsförmåga för vattenånga	NPD	

Prestandan hos föreliggande produkt motsvarar den angivna prestandan. Ovanstående tillverkare är ensam ansvarig för upprättande av prestandadeklarationen i enlighet med förordning (EU) nr 305/2011.

Undertecknas å tillverkarens vägnar av:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i.V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

NO
Oversettelse

YTELSESERKLÆRING

DoP85
Brannskille

1. Unik identifikasjonskode for produkttypen:

Brannvernskottet med seksjonsisolering består av:

- Rørskall ROCKWOOL 800
- Fugemasse
- Geberit systemrør:
  - Geberit Mapress syrefast stål systemrør CrNi (1.4301)
  - Geberit Mapress syrefast stål systemrør CrNiMo (1.4401)
  - Geberit Mapress syrefast stål systemrør CrMoTi (1.4521)
  - Geberit Mapress el-forsinket stål systemrør utvendig el-forsinket
  - Geberit Mapress el-forsinket stål systemrør innvendig og utvendig el-forsinket
  - Geberit Mapress el-forsinket stål systemrør plastmantlet
  - Geberit Mepla systemrør multilayer
  - Geberit Mepla systemrør multilayer, MeplaTherm
  - Geberit systemrør polybutene
  - Geberit systemrør multilayer
  - Geberit systemrør multilayer, Therm
  - Geberit PushFit systemrør multilayer
- Kobberrør (metallrør materialklasse A1)

2. Bruksformål:

«Brannvernskottet med seksjonsisolering» brukes som rørskott for midlertidig eller permanent opprettholdelse av brannmotstanden på åpninger i lette veggkonstruksjoner, massive veggkonstruksjoner, sjaktvegger og tak i massive konstruksjoner som ulike metallrør og multilayerrør føres igjennom.

3. Produsent:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Sveits
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System(er) for evaluering og kontroll av ytelsesstabilitet:

System 1

5. Europeisk vurderingsdokument:

Europeisk vurderingsdokument:	EAD 350454-00-1104 «Brannvernprodukter for tetting og lukking av fuger og åpninger og for å stoppe ild i tilfelle brann - brannvernskott»
Europeisk teknisk vurdering:	ETA-14/0126 av 26.04.2021
Teknisk vurderingsorgan:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Østerrike
Kontrollorgan(er):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Tyskland

6. Erklært ytelse:

Viktige kjennetegn		Ytelse	Teknisk spesifikasjon
	Brannegenskaper	$A2_L$-s1,d0	EN 13501-1:2018
	Brannmotstand	Se vedlegg fra ETA: D-1 til D-17, F-1 til F-17 og H-1 til M-9 samt 3.1.2	EN 13501-2:2016
	Luftgjennomtrengelighet	NPD	EAD 350454-00-1104
	Vanngjennomtrengelighet	NPD	
	Innhold, emisjon og/eller utslipp av farlige stoffer	NPD	
	Mekanisk styrke og stabilitet	NPD	
	Bestandighet mot støt/bevegelse	NPD	
	Klebeevne	NPD	
	Holdbarhet	Oppfylt, se vedlegg 3.3.4	
	Lydisolering	NPD	
	Isolasjonstekniske egenskaper	NPD	
	Vanndampgjennomtrengelighet	NPD	

Ytelsen til det aktuelle produktet er i samsvar med den erklærte ytelsen / de erklærte ytelsene. Produsenten som er nevnt ovenfor, er eneansvarlig for opprettelsen av ytelseserklæringen i samsvar med forordning (EU) nr. 305/2011.

Signert for produsenten og på vegne av produsenten av:

ppa

i. V.

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

FI
Käännös

SUORITUSTASOILMOITUS

DoP85

Palokatkot ja palotiivisteet

GEBERIT

1. Tuotetyypin yksilöllinen tunnuskoodi:

Palotiivistys osioiden eristyksellä koostuu seuraavista:

- ROCKWOOL 800 -eristekouru
- Sauman täyteaine
- Geberit-putket:
  - Geberit Mapress Ruostumaton Teräs -järjestelmäputki CrNi (1.4301)
  - Geberit Mapress Ruostumaton Teräs -järjestelmäputki CrNiMo (1.4401)
  - Geberit Mapress Ruostumaton Teräs -järjestelmäputki CrMoTi (1.4521)
  - Geberit Mapress Hiiliteräs -järjestelmäputki, ulkopinta sinkitty
  - Geberit Mapress Hiiliteräs -järjestelmäputki, sähkösinkitty sekä sisä- että ulkopuolelta
  - Geberit Mapress Hiiliteräs -järjestelmäputki, muovipinnoitettu
  - Geberit Mepla -järjestelmäputki, monikerrosputki
  - Geberit Mepla -järjestelmäputki, monikerrosputki, MeplaTherm
  - Geberit-järjestelmäputki, polybuteeni
  - Geberit-järjestelmäputki, monikerrosputki
  - Geberit-järjestelmäputki, monikerrosputki, Therm
  - Geberit PushFit -järjestelmäputki, monikerrosputki
- Kupariputki (luokan A1 metalliputket)

2. Käyttötarkoitus (-tarkoitukset):

"Palotiivistystä osioiden eristyksellä" on tarkoitettu käytettäväksi osioiden palotiivistyksenä tilapäiseen tai pysyvään palonkestävyyden säilyttämiseen aukoissa kevytseinärakenteissa, massiiviseinärakenteissa, kuiluseinissä ja massiivirakenteisissa katoissa, joiden läpi erilaiset metalliputket ja monikerrosputket ohjataan.

3. Valmistaja:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Sveitsi
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Järjestelmä (-t) suoritustason vakauden arviointia ja tarkastusta varten:

Järjestelmä 1

5. Eurooppalainen arviointiasiakirja:

Eurooppalainen arviointiasiakirja:	EAD 350454-00-1104 "Palosuojatuotteet saumojen ja aukkojen tiivistämiseen ja sulkemiseen sekä tulen leviämisen estämiseen tulipalon sattuessa – Osioiden palotiivistykset"
Eurooppalainen tekninen arviointi:	ETA-14/0126 26.4.2021
Teknisestä arvioinnista vastaava laitos:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Itävalta
Ilmoitettu laitos (ilmoitetut laitokset):	Nro 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Saksa

6. Ilmoitettu suorituskyky:

Keskeiset ominaisuudet		Suorituskyky	Tekniset eritelmät
	Palokäyttäytyminen	$A2_L$-s1,d0	EN 13501-1:2018
	Palonkestävyys	Katso ETA:n liitteet: D-1 ... D-17, F-1 ... F-17 ja H-1 ... M-9 sekä 3.1.2	EN 13501-2:2016
	Ilmanläpäisevyys	NPD	EAD 350454-00-1104
	Vedenläpäisevyys	NPD	
	Vaarallisten aineiden pitoisuus, päästöt ja/tai leviäminen	NPD	
	Mekaaninen lujuus ja vakavuus	NPD	
	Iskun/liikkeen kestävyys	NPD	
	Tarttuvuus	NPD	
	Kestävyys	Täytetty, katso liite 3.3.4	
	Ilmamelun eristys	NPD	
	Lämpösuojatekniset ominaisuudet	NPD	
	Vesihöyrynläpäisevyys	NPD	

Tämän tuotteen suorituskyky vastaa vakuutuksen mukaista suorituskykyä/mukaisia suorituskykyjä. Edellä mainittu valmistaja on yksin vastuussa asetuksen (EU) nro 305/2011 mukaisen suoritustasoilmoituksen laatimisesta.

Valmistajan puolesta allekirjoittanut:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

ET
Tõlge

TOIMIVUSDEKLARATSIOON

DoP85
Tuletõkkekaitse

GEBERIT

1. Tootetüübi kordumatu identifitseerimiskood:

Ribaisolatsiooniga tuletõkkekaitse koosneb:

- Toruümbris ROCKWOOL 800
- Vuugitäide
- Geberit süsteemitorud:
  - Geberit Mapress roostevabast terasest süsteemitoru CrNi (1.4301)
  - Geberit Mapress roostevabast terasest süsteemitoru CrNiMo (1.4401)
  - Geberit Mapress roostevabast terasest süsteemitoru CrMoTi (1.4521)
  - Geberit Mapress C-teras süsteemitoru, väljast galvaaniliselt tsingitud
  - Geberit Mapress C-teras süsteemitoru, seest ja väljast galvaaniliselt tsingitud
  - Geberit Mapress C-teras süsteemitoru plastikuga kaetud
  - Geberit Mepla süsteemitoru ML
  - Geberit Mepla süsteemitoru ML, MeplaTherm
  - Geberit süsteemitoru PB
  - Geberit süsteemitoru ML
  - Geberit süsteemitoru ML, Therm
  - Geberit PushFit süsteemitoru ML
- Vasktoru (klassi A1 metalltorud)

2. Kasutusotstarve(-otstarbed):

"Ribaisolatsiooniga tuletõkkekaitse" on ette nähtud torude isolatsioonina tulekindluse ajutiseks või püsivaks säilitamiseks kergseinakonstruktsioonide, massiivseinakonstruktsioonide avades, massiivehitusega teostatud kanaliseintes ja lagedes, läbi mille paigaldatakse erinevad metalltorud ja metallkihtidega seotud torud.

3. Tootja:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Šveits
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Süsteem(id) toimivuse püsivuse hindamiseks ja kontrollimiseks:

Süsteem 1

5. Euroopa hindamisdokument:

Euroopa hindamisdokument:	EAD 350454-00-1104 "Tuletõkketooted vuukide ja avade tihendamiseks ja sulgemiseks ning tuletõkkeks tulekahju korral - tõkkekaitsed"
Euroopa tehniline hinnang:	ETA-14/0126 26.04.2021
Tehnilise hindamise asutus:	Austria ehitustehnikainstituut (OIB), Schenkenstrasse 4, 1010 Viin, Austria
Teavitatud asutus(ed):	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Saksamaa

6. Deklareeritud toimivus:

Põhiomadused		Toimivus	Tehniline spetsifikatsioon
	Tulekindlus	$A2_L$-s1,d0	EN 13501-1:2018
	Tulekindlus	Vt ETA lisad: D-1 kuni D-17, F-1 kuni F-17 ja H-1 kuni M-9 ning 3.1.2	EN 13501-2:2016
	Õhu läbilaskvus	NPD	EAD 350454-00-1104
	Vee läbilaskvus	NPD	
	Ohtlike ainete sisaldus, emissioon ja/või eraldumine	NPD	
	Mehhaaniline vastupidavus ja stabiilsus	NPD	
	Vastupidavus löökidele ja liikumisele	NPD	
	Liimuvus	NPD	
	Vastupidavus välismõjudele	Täidetud, vt lisa 3.3.4	
	Õhus leviva müra isolatsioon	NPD	
	Soojusväärtused	NPD	
	Veeaurude läbilaskvus	NPD	

Eespool nimetatud toote toimivus vastab deklareeritud toimivus(t)ele. Toimivusdeklaratsiooni koostamise eest vastutab määrusega (EL) nr 305/2011 kooskõlas üksnes eespool nimetatud tootja.

Tootja eest ja nimel allkirjastanud:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i. V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

LT
Vertimas

EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

DoP85

Priešgaisrinė angos sandarinimo priemonė

1. Unikalusis gaminio tipo identifikavimo kodas:

Priešgaisrinę izoliavimo sistemą su sekcijų izoliacija sudaro:

- Vamzdžių apvalkalas ROCKWOOL 800
- Siūlių užpildas
- Geberit Sistemos vamzdžiai:
  - Geberit Mapress nerūdijančiojo plieno sistemos vamzdis CrNi (1.4301)
  - Geberit Mapress nerūdijančiojo plieno sistemos vamzdis CrNiMo (1.4401)
  - Geberit Mapress nerūdijančiojo plieno sistemos vamzdis CrMoTi (1.4521)
  - Geberit Mapress išorėje cinkuotas anglinio plieno sistemos vamzdis
  - Geberit Mapress viduje ir išorėje cinkuotas anglinio plieno sistemos vamzdis
  - Geberit Mapress anglinis plienas sistemos vamzdis, padengtas plastiku
  - Geberit Mepla sistemos vamzdis ML
  - Geberit Mepla sistemos vamzdis ML, MeplaTherm
  - Geberit sistemos vamzdis PB
  - Geberit sistemos vamzdis ML
  - Geberit sistemos vamzdis ML, Therm
  - Geberit PushFit sistemos vamzdis ML
- Varinis vamzdis (metalinių vamzdžių klasė A1)

2. Naudojimo paskirtis (-s):

„Priešgaisrinė izoliavimo sistema su sekcijų izoliacija“ skirta naudoti kaip vamzdžių izoliacijos sistema laikinam arba nuolatiniam priešgaisrinio atsparumo palaikymui prie angų lengvose sienų konstrukcijose, masyviose sienų konstrukcijose, šachtų sienose ir masyvios konstrukcijos lubose, kurios numatytos įvairiems metaliniams vamzdžiams ir daugiasluoksniams kompozito vamzdžiams pravesti.

3. Gamintojas:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Šveicarija
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Eksploatacinių savybių pastovumo tikrinimo ir vertinimo sistema (-os):

1 sistema

5. Europos vertinimo dokumentas:

Europos vertinimo dokumentas:	EAD 350454-00-1104 „Priešgaisrinės apsaugos gaminiai siūlėms ir angoms sandarinti bei uždaryti, ugniai sulaikyti gaisro atveju - izoliavimo sistemos“
Europos techninis vertinimas:	ETA-14/0126 2021-04-26
Techninio vertinimo įstaiga:	Austrijos statybų technikos institutas (vok. Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Notifikuotoji (-osios) įstaiga (-os):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Deklaruojamos eksploatacinės savybės:

Esminės charakteristikos		Eksploatacinės savybės	Techninė specifikacija
	Atsparumas gaisrui	$A2_L$-s1,d0	EN 13501-1:2018
	Atsparumas ugniai	Žr. ETA priedus: nuo D-1 iki D-17, nuo F-1 iki F-17 ir nuo H-1 iki M-9 bei 3.1.2	EN 13501-2:2016
	Pralaidumas orui	NPD	EAD 350454-00-1104
	Pralaidumas vandeniui	NPD	
	Pavojingų medžiagų dalis, emisija ir (arba) išsi-skyrimas	NPD	
	Mechaninis atsparumas ir stabilumas	NPD	
	Atsparumas smūgiui / judesiui	NPD	
	Sukibimas	NPD	
	Patvarumas	Atitinka, žr. 3.3.4 priedą	
	Triukšmo izoliacija	NPD	
	Šiluminės izoliacijos techninės savybės	NPD	
	Pralaidumas vandens garams	NPD	

Šio gaminio eksploatacinės savybės atitinka deklaruotas eksploatacines savybes. Už eksploatacinių savybių deklaracijos parengimą pagal Reglamentą (ES) Nr. 305/2011 atsakingas minėtas gamintojas.

Pasirašyta (gamintojas ir jo vardu):

ppa Taubert

i. V. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

LV
Tulkojums

EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

DoP85

Ugunsdrošības starpsiena

1. Unikāls izstrādājuma tipa identifikācijas numurs:

Ugunsdrošības starpsiena ar sekciju izolāciju sastāv no:

- Caurules apvalka ROCKWOOL 800
- Šuvju pildvielas
- Geberit sistēmu caurule:
  - Geberit Mapress nerūsējošā tērauda sistēmu caurule CrNi (1.4301)
  - Geberit Mapress nerūsējošā tērauda sistēmu caurule CrNiMo (1.4401)
  - Geberit Mapress nerūsējošā tērauda sistēmu caurule CrMoTi (1.4521)
  - Geberit Mapress cinkotā tērauda sistēmas caurule, ar cinka pārklājumu ārpusē
  - Geberit Mapress cinkota tērauda sistēmas caurule, ar cinka pārklājumu iekšpusē un ārpusē
  - Geberit Mapress cinkota tērauda sistēmas caurule, ar plastmasas apvalku
  - Geberit Mepla sistēmas caurule ML
  - Geberit Mepla sistēmas caurule ML, MeplaTherm
  - Geberit sistēmas caurule PB
  - Geberit sistēmas caurule ML
  - Geberit sistēmas caurule ML, Therm
  - Geberit PushFit sistēmas caurule ML
- Vara caurule (A1 klases metāla caurules)

2. Pielietojums(-i):

"Ugunsdrošības starpsiena ar sekciju izolāciju" ir paredzēta izmantošanai kā cauruļu starpsiena īslaicīgai vai pastāvīgai ugunsizturības uzturēšanai atverēs vieglās sienu konstrukcijās, vienlaidu sienu konstrukcijās, šahtu sienās un pārsegumos vienlaidu konstrukcijās, caur kurām tiek izvadītas dažādas metāla caurules un daudzslāņu kompozītmateriālu caurules.

3. Ražotājs:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Šveice
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Ekspluatācijas īpašību noturīguma novērtējuma un pārbaudes sistēma(-s):

Sistēma Nr. 1

5. Eiropas novērtējuma dokuments:

Eiropas novērtējuma dokuments:	EAD 350454-00-1104 "Ugunsdrošības un ugunsgrēka izolācijas izstrādājumi - izolācijas nodrošināšana šķērsojuma vietās"
Eiropas tehniskais novērtējums:	ETA-14/0126 no 26.04.2021
Tehniskā novērtējuma iestāde:	Austrijas Būvtehnikas institūts (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Austrija
Paziņotā(-s) iestāde(-s):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Vācija

6. Deklarētās ekspluatācijas īpašības:

Galvenās pazīmes		Ekspluatācijas īpašības	Tehniskā specifikācija
	Degamība	$A2_L$-s1,d0	EN 13501-1:2018
	Ugunsizturība	Skatiet ETA pielikumus: no D-1 līdz D-17, no F-1 līdz F-17 un no H-1 līdz M-9, kā arī 3.1.2	EN 13501-2:2016
	Gaisa caurlaidība	NPD	EAD 350454-00-1104
	Ūdens caurlaidība	NPD	
	Kaitīgu vielu izmeši, saturs un/vai izplatīšana	NPD	
	Mehāniskā stiprība un statiskā stabilitāte	NPD	
	Noturība pret triecienu/deformāciju	NPD	
	Adhēzijas spēja	NPD	
	Izturīgums	Izpildīts, skatiet 3.3.4. pielikumu	
	Gaisa skaņas izolācija	NPD	
	Siltumizolācijas tehniskās īpašības	NPD	
	Ūdens tvaika caurlaidība	NPD	

Iepriekš minētā izstrādājuma ekspluatācijas īpašības atbilst deklarētajām ekspluatācijas īpašībām. Par īpašību deklarācijas sastādīšanu atbilstīgi Regulai (ES) Nr. 305/2011 atbild tikai un vienīgi iepriekš minētais ražotājs.

Parakstīts ražotāja vārdā:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i. V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

PL
Tłumaczenie

DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH

DoP85

Przegrodę przeciwpożarową

1. Niepowtarzalny kod identyfikacyjny typu produktu:

Przegroda przeciwpożarowa z izolacją sekcji składa się z następujących części:

- Otulina ROCKWOOL 800
- Masa szpachlowa
- Rury Geberit:
  - Rura Geberit Mapress Edelstahl CrNi (1.4301)
  - Rura Geberit Mapress Edelstahl CrNiMo (1.4401)
  - Rura Geberit Mapress Edelstahl CrMoTi (1.4521)
  - Rura Geberit Mapress C-Stahl ocynkowana zewnętrznie
  - Rura Geberit Mapress C-Stahl ocynkowana wewnętrznie i zewnętrznie
  - Rura Geberit Mapress C-Stahl w płaszczu z tworzywa sztucznego
  - Rura ML Geberit Mepla
  - Rura ML Geberit Mepla, MeplaTherm
  - Rura PB Geberit
  - Rura ML Geberit
  - Rura ML Geberit, Therm
  - Rura ML Geberit PushFit
- Rura miedziana (rury metalowe klasy A1)

2. Przeznaczenie:

„Przegroda przeciwpożarowa z izolacją sekcji” jest przewidziana do zastosowania jako przegroda do rur w celu tymczasowego lub trwałego utrzymywania odporności ogniowej w otworach w lekkich i pełnych konstrukcjach ściennych, ścianach szybów oraz stropach w zabudowie pełnej, przez które przeprowadzane są najróżniejsze rury metalowe i rury wielowarstwowe.

3. Producent:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Szwajcaria
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. System (systemy) oceny i weryfikacji stałości właściwości użytkowych:

System 1

5. Europejski dokument oceny:

Europejski dokument oceny:	EAD 350454-00-1104 „Produkty przeciwpożarowe do uszczelniania i zamykania szczelin i otworów oraz do zatrzymywania ognia w razie pożaru”
Europejska ocena techniczna:	ETA-14/0126 z 26.04.2021
Jednostka ds. oceny technicznej:	Austriacki Instytut Techniki Budowlanej (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Austria
Jednostka notyfikowana (jednostki notyfikowane):	Nr 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Niemcy

6. Deklarowane właściwości użytkowe:

Istotne cechy		Właściwości użytkowe	Specyfikacja techniczna
	Charakterystyka pożarowa	$A2_L$-s1,d0	EN 13501-1:2018
	Odporność ogniowa	Patrz załączniki ETA: D-1 do D-17, F-1 do F-17 oraz H-1 do M-9, a także 3.1.2	EN 13501-2:2016
	Przepuszczalność powietrza	NPD	EAD 350454-00-1104
	Przepuszczalność wody	NPD	
	Zawartość, emisja i/lub uwalnianie niebezpiecznych substancji	NPD	
	Wytrzymałość mechaniczna i stateczność	NPD	
	Wytrzymałość na uderzenie/przemieszczenie	NPD	
	Przyczepność	NPD	
	Wytrzymałość	Spełnia wymagania, patrz załącznik 3.3.4	
	Izolacja dźwiękowa	NPD	
	Właściwości termoizolacyjne	NPD	
	Przepuszczalność pary wodnej	NPD	

Właściwości użytkowe opisanego powyżej produktu odpowiadają właściwościom deklarowanym. Za zgodność deklaracji właściwości użytkowych z rozporządzeniem (UE) nr 305/2011 odpowiada wyłącznie wymieniony powyżej producent.

W imieniu producenta podpisał(-a):

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

CS
Překlad

PROHLÁŠENÍ O VLASTNOSTECH

DoP85

Protipožární bariéry

1. Jedinečný identifikační kód typu výrobku:

Protipožární bariéry s potrubní izolací tvoří:

- Potrubní pouzdro ROCKWOOL 800
- Spárovací hmota
- Systémové trubky Geberit:
  - Systémová trubka Geberit Mapress nerezová ocel CrNi (1.4301)
  - Systémová trubka Geberit Mapress nerezová ocel CrNiMo (1.4401)
  - Systémová trubka Geberit Mapress nerezová ocel CrMoTi (1.4521)
  - Systémová trubka Geberit Mapress uhlíková ocel vně galvanicky pozinkovaná
  - Systémová trubka Geberit Mapress uhlíková ocel uvnitř a vně pozinkovaná
  - Systémová trubka Geberit Mapress uhlíková ocel opláštění plastem
  - Systémová trubka ML Geberit Mepla
  - Systémová trubka ML Geberit Mepla, MeplaTherm
  - Systémová trubka PB Geberit
  - Systémová trubka ML Geberit
  - Systémová trubka ML Geberit, Therm
  - Systémová trubka ML Geberit PushFit
- Měděná trubka (kovové trubky třídy A1)

2. Účel(y) použití:

"Protipožární bariéry s potrubní izolací" jsou určeny k použití jako protipožární bariéry pro dočasné nebo trvalé udržování požární odolnosti u otvorů v lehkém zdivu, masivním zdivu, ve stěnách šachet a stropech masivních konstrukcí, jimiž procházejí nejrůznější kovové trubky a vícevrstvé trubky.

3. Výrobce:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švýcarsko
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Systém (systémy) pro hodnocení a přezkoumání trvanlivosti vlastností:

Systém 1

5. Evropský dokument pro posuzování:

Evropský dokument pro posuzování:	EAD 350454-00-1104 "Protipožární výrobky pro utěsnění a uzavření spár a otvorů a pro zabránění šíření ohně v případě požáru – protipožární bariéry"
Evropské technické posouzení:	ETA-14/0126 ze dne 26.04.2021
Technický subjekt pro posuzování:	Rakouský institut pro stavební techniku (OIB), Schenkenstrasse 4, 1010 Wien, Rakousko
Oznámený(é) subjekt(y):	č. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Německo

6. Vlastnosti uvedené v prohlášení:

Základní charakteristiky		Vlastnost	Technické specifikace
	Chování při hoření	$A2_L$-s1,d0	EN 13501-1:2018
	Požární odolnost	Viz přílohy ETA: D-1 až D-17, F-1 až F-17 a H-1 až M-9 a dále 3.1.2	EN 13501-2:2016
	Prodyšnost	NPD	EAD 350454-00-1104
	Propustnost vody	NPD	
	Obsah, emise a/nebo uvolňování nebezpečných látek	NPD	
	Mechanická pevnost a stabilita	NPD	
	Odolnost vůči nárazu/pohybu	NPD	
	Přilnavost	NPD	
	Trvanlivost	Splňuje, viz příloha 3.3.4	
	Zvuková izolace proti hluku šířenému vzduchem	NPD	
	Technické parametry tepelné ochrany	NPD	
	Propustnost pro vodní páru	NPD	

Vlastnosti tohoto produktu odpovídá deklarované vlastnosti / deklarovaným vlastnostem. Za vystavení prohlášení o vlastnostech v souladu s nařízením (EU) č. 305/2011 odpovídá výhradně výše uvedený výrobce.

Podepsáno za výrobce a jeho jménem:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

SK
Preklad

VYHLÁSENIE O PARAMETROCH

DoP85

Výrobky na protipožiarne upchávky a protipožiarne tesnenia

1. Jedinečný identifikačný kód typu výrobku:

Protipožiarna upchávka a protipožiarne tesnenie s izoláciou trasy je zložené z/zo:

- Obloženia rúry ROCKWOOL 800
- Škárovacia hmota
- Systémových rúr Geberit:
  - Systémová rúra Geberit Mapress ušľachtilá oceľ CrNi (1.4301)
  - Systémová rúra Geberit Mapress ušľachtilá oceľ CrNiMo (1.4401)
  - Systémová rúra Geberit Mapress ušľachtilá oceľ CrMoTi (1.4521)
  - Systémová rúra Geberit Mapress uhlíková oceľ s vonkajším pozinkovaním
  - Systémová rúra Geberit Mapress uhlíková oceľ s vnútorným a vonkajším pozinkovaním
  - Systémová rúra Geberit Mapress uhlíková oceľ s plastovým opláštením
  - Viacvrstvová systémová rúra Geberit Mepla
  - Viacvrstvová systémová rúra Geberit Mepla, MeplaTherm
  - Systémová rúra PB Geberit
  - Viacvrstvová systémová rúra Geberit
  - Viacvrstvová systémová rúra Geberit, Therm
  - Viacvrstvová systémová rúra Geberit PushFit
- Medená rúra (kovová rúra trieda A1)

2. Účel(-y) použitia:

„Protipožiarna upchávka a protipožiarne tesnenie s izoláciou trasy“ je určená na použitie ako upchávka potrubia na dočasné alebo trvalé udržanie požiarnej odolnosti na otvoroch v ľahkých stenových konštrukciách, plných stenových konštrukciách, šachtových stenách a stropoch v pevných konštrukciách cez ktoré prechádzajú najrôznejšie kovové rúry a viacvrstvové kompozitné rúry.

3. Výrobca:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švajčiarsko
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Systém(-y) posudzovania a overovania nemennosti parametrov:

Systém 1

5. Európsky hodnotiaci dokument:

Európsky hodnotiaci dokument:	EAD 350454-00-1104 „Protipožiarne výrobky na utesnenie a zatváranie škár a servisných otvorov a na zastavenie požiaru v prípade jeho vzniku - izolácie“
Európske technické posúdenie:	ETA-14/0126 z 26.04.2021
Orgán technického posudzovania:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Rakúsko
Notifikovaný(-é) orgán(y):	č. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemecko

6. Deklarovaný parameter:

Základné charakteristiky		Parameter	Technická špecifikácia
	Reakcia na oheň	$A2_L$-s1,d0	EN 13501-1:2018
	Požiarna odolnosť	Pozri prílohy ETA: D-1 do D-17, F-1 do F-17 a H-1 do M-9 ako aj 3.1.2	EN 13501-2:2016
	Priepustnosť vzduchu	NPD	EAD 350454-00-1104
	Priepustnosť vody	NPD	
	Obsah, emisie a/alebo uvoľňovanie nebezpečných látok	NPD	
	Mechanická pevnosť a stabilita	NPD	
	Odolnosť voči nárazom/pohybu	NPD	
	Priľnavosť	NPD	
	Trvácnosť	Splnené, pozri prílohu 3.3.4	
	Izolácia hluku šíriaceho sa vzduchom	NPD	
	Technické vlastnosti tepelnej ochrany	NPD	
	Priepustnosť vodnej pary	NPD	

Parameter vyššie uvedeného výrobku zodpovedá deklarovanému parametru/deklarovaným parametrom. Za vypracovanie vyhlásenia o parametroch v súlade s nariadením (EÚ) č. 305/2011 je zodpovedný výlučne vyššie uvedený výrobca.

Podpísal(-a) za a v mene výrobcu:

ppa

i. V.

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

HU
Fordítás

TELJESÍTMÉNYNYILATKOZAT

DoP85

Tűzvédelmi leválasztás

1. A terméktípus egyedi azonosító kódja:

A tűzvédelmi szakaszszigetelés elemei:

- ROCKWOOL 800 csőhéj
- Réskitöltő anyag
- Geberit rendszercsövek:
  - Geberit Mapress CrNi nemesacél rendszercső (1.4301)
  - Geberit Mapress CrNiMo nemesacél rendszercső (1.4401)
  - Geberit Mapress CrMoTi nemesacél rendszercső (1.4521)
  - Geberit Mapress szénacél rendszercső, kívül horganyzott
  - Geberit Mapress szénacél rendszercső, kívül-belül horganyzott
  - Geberit Mapress szénacél rendszercső műanyag bevonatos
  - Geberit Mepla ML rendszercső
  - Geberit Mepla ML rendszercső, MeplaTherm
  - Geberit PB rendszercső
  - Geberit ML rendszercső
  - Geberit ML rendszercső, Therm
  - Geberit PushFit ML rendszercső
- Rézcső (A1 osztályú fémcsövek)

2. Felhasználás terület(ek):

A „tűzvédelmi szakaszszigetelést” csőszigetelésként való alkalmazásra tervezték a tűzállóság ideiglenes vagy állandó fenntartása érdekében könnyű- és tömör falszerkezetek, aknafalak és tömör födémek azon nyílásainál, amelyeken a legkülönbözőbb fémcsöveket és többrétegű csöveket vezetik át.

3. Gyártó:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Svájc
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Rendszer(ek) a teljesítmény állandóságának értékelésére és ellenőrzésére:

1. rendszer

5. Európai értékelési dokumentum:

Európai értékelési dokumentum:	EAD 350454-00-1104 „Tűzvédelmi termékek rések és nyílások tömítéséhez és lezárásához, valamint a tűz terjedésének meggátolására - válaszfalak”
Európai műszaki értékelés:	ETA-14/0126 2021.04.26.
Műszaki értékelést végző szerv:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Bejelentett szervezet(ek):	0761 sz., MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. A nyilatkozatban szereplő teljesítmény:

Alapvető jellemzők		Teljesítmény	Műszaki előírások
	Éghetőség	$A2_L$-s1,d0	EN 13501-1:2018
	Tűzállóság	Lásd ETA mellékletek: D-1 – D-17, F-1 – F-17 és H-1 – M-9, valamint 3.1.2	EN 13501-2:2016
	Légáteresztő képesség	NPD	EAD 350454-00-1104
	Vízáteresztő képesség	NPD	
	Veszélyesanyagok-tartalma, emissziója és/ vagy kibocsátása	NPD	
	Mechanikai szilárdság és stabilitás	NPD	
	Lökéssel/mozgatással szembeni szilárdság	NPD	
	Tapadóképesség	NPD	
	Tartósság	Teljesült, lásd 3.3.4. melléklet	
	Léghang szigetelés	NPD	
	Hőtechnikai tulajdonságok	NPD	
	Vízpáraáteresztés	NPD	

A termék teljesítménye megfelel a nyilatkozatban szereplő teljesítmény(ek)nek. A 305/2011 rendelet (EU) szerinti teljesítménynyilatkozat létrehozásáért a fent nevezett gyártó viseli a kizárólagos felelősséget.

A gyártó nevében és részéről aláíró személy:

ppa

i. V.

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

RO
Traducere

DECLARAȚIE DE PERFORMANȚĂ

DoP85

Izolație împotriva incendiilor

1. Cod unic de identificare al produsului-tip:

Compartimentarea etanșă pentru protecția antiincendiu cu izolare pe secțiune se compune din:

- Cofraj de țeavă ROCKWOOL 800
- Umplutură pentru rosturi
- Țevi Geberit:
  - Țeavă Geberit Mapress Oțel-Inox CrNi (1.4301)
  - Țeavă Geberit Mapress Oțel-Inox CrNiMo (1.4401)
  - Țeavă Geberit Mapress Oțel-Inox CrMoTi (1.4521)
  - Țeavă Geberit Mapress Oțel-Carbon galvanizată la exterior
  - Țeavă Geberit Mapress Oțel-Carbon galvanizată la interior și exterior
  - Țeavă Geberit Mapress Oțel-Carbon cu înveliş din plastic
  - Țeavă multistrat Geberit Mepla
  - Țeavă multistrat Geberit Mepla, MeplaTherm
  - Țeavă PB Geberit
  - Țeavă multistrat Geberit
  - Țeavă multistrat Geberit, Therm
  - Țeavă multistrat Geberit PushFit
- Țeavă de cupru (țevi metalice clasa A1)

2. Domeniu (domenii) de utilizare:

"Compartimentarea etanșă pentru protecția antiincendiu cu izolare pe secțiune" este prevăzută ca o compartimentare etanșă a țevii în vederea menținerii temporare sau permanente a rezistenței la incendiu la orificii din construcții din pereți de compartimentare, construcții din pereți masivi, pereți de tuneluri verticale și tavane pentru moduri de construcție masivă, prin cele mai diferite țevi metalice și ML.

3. Producător:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Elveția
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(e) pentru evaluarea şi verificarea performanței:

Sistemul 1

5. Document european de evaluare:

Document european de evaluare:	EAD 350454-00-1104 "Produse de protecție antiincendiu pentru etanșarea și închiderea de rosturi și orificii și pentru oprirea focului în caz de incendiu - compartimentări etanșe"
Evaluare tehnică europeană:	ETA-14/0126 din 26.04.2021
Organism de evaluare tehnică:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Viena, Austria
Organism(e) notificat(e):	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Germania

6. Performanță declarată:

Caracteristici esențiale		Performanță	Specificație tehnică
	Comportament la foc	$A2_L$-s1,d0	EN 13501-1:2018
	Rezistență la incendiu	A se vedea anexele ETA: D-1 până la D-17, F-1 până la F-17 și H-1 până la M-9, precum și 3.1.2	EN 13501-2:2016
	Permeabilitatea la aer	NPD	EAD 350454-00-1104
	Permeabilitate la apă	NPD	
	Conținutul, emisia și/sau dispersarea substanțelor periculoase	NPD	
	Rezistență mecanică și stabilitate	NPD	
	Rezistență la șoc/mișcare	NPD	
	Aderență	NPD	
	Durabilitate	Îndeplinit, a se vedea anexa 3.3.4	
	Izolație fonică împotriva zgomotului propagat în aer	NPD	
	Caracteristici tehnice de protecție termică	NPD	
	Permeabilitate la vaporii de apă	NPD	

Performanța prezentului produs este în conformitate cu performanța/performanțele declarate. Această declarație de performanță în conformitate cu Regulamentul (UE) nr. 305/2011 este emisă pe răspunderea exclusivă a fabricantului menționat mai sus.

Semnată pentru şi în numele fabricantului de către:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

BG
Превод

ДЕКЛАРАЦИЯ ЗА ЕКСПЛОАТАЦИОННИ ПОКАЗАТЕЛИ

DoP85

Изолация за противопожарна защита

1. Уникален идентификационен код на типа продукт:

Противопожарната защита с изолация на секции се състои от:

- тръбна изолация ROCKWOOL 800
- пълнител за фуги
- Системни тръби Geberit:
  - Системна тръба CrNi Geberit Mapress неръждаема стомана (1.4301)
  - Системна тръба CrNiMo Geberit Mapress неръждаема стомана (1.4401)
  - Системна тръба CrMoTi Geberit Mapress неръждаема стомана (1.4521)
  - Външно поцинкована системна тръба Geberit Mapress въглеродна стомана
  - Вътрешно и външно поцинкована системна тръба Geberit Mapress въглеродна стомана
  - Системна тръба с пластмасово покритие Geberit Mapress въглеродна стомана
  - Системна тръба ML Geberit Mepla
  - Системна тръба ML Geberit Mepla, MeplaTherm
  - Системна тръба PB Geberit
  - Системна тръба ML Geberit
  - Системна тръба ML Geberit, Therm
  - Системна тръба ML Geberit PushFit
- медна тръба (метални тръби клас A1)

2. Предназначение/я:

„Противопожарната защита с изолация на секции“ е предназначена за употреба като защита за тръби за временно или постоянно поддържане на огнеустойчивост при отвори в леки, масивни или шахтни стени и тавани в масивна конструкция, през които преминава голямо разнообразие от метални и многослойни тръби.

3. Производител:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швейцария
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Система/и за оценяване и изпитване на устойчивостта на експлоатационните показатели:

Система 1

5. Европейски документ за оценяване:

Европейски документ за оценяване:	EAD 350454-00-1104 „Противопожарни продукти за уплътняване и затваряне на фуги и отвори и за спиране на пожар в случай на противопожарни защити“
Европейска техническа оценка:	ETA-14/0126 от 26.04.2021 г.
Орган за техническо оценяване:	Австрийски институт по строителни технологии (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Виена, Австрия
Нотифициран/и орган/и:	№ 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Брауншвайг, Германия

6. Декларирани експлоатационни показатели:

Съществени характеристики		Експлоатационни показатели	Техническа спецификация
	Поведение при пожар	$A2_L$-s1,d0	EN 13501-1:2018
	Огнеустойчивост	Вижте Приложенията към ETA: D-1 до D-17, F-1 до F-17 и H-1 до M-9, както и 3.1.2	EN 13501-2:2016
	Въздухопропускливост	NPD	EAD 350454-00-1104
	Водонепроницаемост	NPD	
	Съдържание, емисии и/или отделяне на опасни вещества	NPD	
	Механична якост и устойчивост	NPD	
	Устойчивост на удар/движение	NPD	
	Прилепване	NPD	
	Дълготрайност	Изпълнено, вижте Приложение 3.3.4	
	Въздушна звукоизолация	NPD	
	Топлоизолационни характеристики	NPD	
	Паропроницаемост	NPD	

Експлоатационните показатели на настоящия продукт отговарят на декларираната мощност/декларираните експлоатационни показатели. За съставянето на тази декларация за експлоатационни показатели в съответствие с Регламент (ЕС) № 305/2011 отговорност носи само посоченият по-горе производител.

Подписано за и от името на производителя от:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

SL
Prevod

IZJAVA O LASTNOSTIH

DoP85

Protipožarna pregrada

GEBERIT

1. Enotna identifikacijska oznaka tipa proizvoda:

Protipožarno pregrado z izolacijo cevi sestavljajo:

- Cevak ROCKWOOL 800
- Polnilo za fuge
- Sistemske cevi Geberit:
  - Sistemska cev CrNi Geberit Mapress nerjavno jeklo (1.4301)
  - Sistemska cev CrNiMo Geberit Mapress nerjavno jeklo (1.4401)
  - Sistemska cev CrMoTi Geberit Mapress nerjavno jeklo (1.4521)
  - Sistemska cev Geberit Mapress ogljikovo jeklo, zunaj cinkana
  - Sistemska cev Geberit Mapress ogljikovo jeklo, znotraj in zunaj cinkana
  - Sistemska cev Geberit Mapress ogljikovo jeklo plastificirana
  - Večslojna sistemska cev Geberit Mepla
  - Večslojna sistemska cev Geberit Mepla, MeplaTherm
  - Sistemska cev PB Geberit
  - Večslojna sistemska cev Geberit
  - Večslojna sistemska cev Geberit, Therm
  - Večslojna sistemska cev Geberit PushFit
- Bakrena cev (kovinska cev razreda A1)

2. Namen/-i uporabe:

„Protipožarna pregrada z izolacijo cevi“ je predvidena kot cevna pregrada za začasno ali trajno ohranitev požarne odpornosti pri odprtinah v suhomontažnih stenah, masivnih stenah, stenah z inštalacijskimi jaški in masivnih stropih, skozi katere so speljane različne kovinske cevi in večslojne cevi.

3. Proizvajalec:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švica
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(-i) za ocenjevanje in preverjanje nespremenljivosti lastnosti:

Sistem 1

5. Evropski ocenjevalni dokument:

Evropski ocenjevalni dokument:	EAD 350454-00-1104 „Izdelki za požarno zaščito za zatesnitev in zapolnitev fug in odprtin ter zadrževanje ognja ob požaru – protipožarne pregrade“
Evropska tehnična ocena:	ETA-14/0126 z dne 26.04.2021
Organ za tehnično ocenjevanje:	Avstrijski inštitut za gradbeno tehniko (Österreichisches Institut für Bautechnik – OIB), Schenkenstrasse 4, 1010 Dunaj, Avstrija
Priglašeni organ(-i):	Št. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemčija

6. Navedene lastnosti:

Bistvene značilnosti		Lastnosti	Tehnična specifikacija
	Reakcija na ogenj	$A2_L$-s1,d0	EN 13501-1:2018
	Požarna odpornost	Glejte priloge ETA: D-1 do D-17, F-1 do F-17 in H-1 do M-9 ter 3.1.2	EN 13501-2:2016
	Prepustnost za zrak	NPD	EAD 350454-00-1104
	Prepustnost za vodo	NPD	
	Vsebnost, emisije in/ali sproščanje nevarnih snovi	NPD	
	Mehanska trdnost in stabilnost	NPD	
	Odpornost proti udarcem/premikanju	NPD	
	Oprijemljivost	NPD	
	Vzdržljivost	Izpolnjeno, glejte prilogo 3.3.4	
	Zvočna izolacija	NPD	
	Tehnične lastnosti glede toplotne zaščite	NPD	
	Prepustnost za vodno paro	NPD	

Lastnosti omenjenega izdelka ustrezajo navedenim lastnostim. Za pripravo izjave o lastnostih v skladu z uredbo (EU) št. 305/2011 je odgovoren le zgoraj navedeni proizvajalec.

Podpisal za in v imenu proizvajalca:

ppa Taubert

i. V. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

HR
Prijevod

IZJAVA O SVOJSTVIMA

DoP85

Protupožarna zapreka

GEBERIT

1. Jedinstvena identifikacijska oznaka vrste proizvoda:

Protupožarna zapreka s izolacijom trase sastoji se od sljedećih komponenti:

- cjevak ROCKWOOL 800
- punilo za fuge
- Geberit sistemske cijevi:
  - Geberit Mapress inox sistemska cijev CrNi (1.4301)
  - Geberit Mapress inox sistemska cijev CrNiMo (1.4401)
  - Geberit Mapress inox sistemska cijev CrMoTi (1.4521)
  - Geberit Mapress C-čelik sistemska cijev, pocinčana izvana
  - Geberit Mapress C-čelik sistemska cijev, pocinčana izvana i iznutra
  - Geberit Mapress C-čelik sistemska cijev, plastificirana
  - Geberit Mepla višeslojna sistemska cijev
  - Geberit Mepla višeslojna sistemska cijev, MeplaTherm
  - Geberit sistemska cijev PB
  - Geberit višeslojna sistemska cijev
  - Geberit višeslojna sistemska cijev, Therm
  - Geberit PushFit višeslojna sistemska cijev
- bakrena cijev (metalne cijevi razreda A1)

2. Primjena/primjene:

„Protupožarna zapreka s izolacijom trase" predviđena je za uporabu kao protupožarna zapreka kod cijevi za privremeno ili trajno održavanje vatrootpornosti na otvorima u konstrukcijama lakih zidova, konstrukcijama masivnih zidova, stijenkama okana i stropovima u masivnom načinu gradnje, kroz koje se provode sistemske cijevi.

3. Proizvođač:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švicarska
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sustav/sustavi za procjenu i provjeru postojanosti svojstava:

Sustav 1

5. Europski dokument za ocjenjivanje:

Europski dokument za ocjenjivanje:	EAD 350454-00-1104 „Protupožarna zapreka s izolacijom trase za brtvljenje i zatvaranje fuga i otvora te za zadržavanje vatre u slučaju požara - protupožarne barijere"
Europska tehnička ocjena:	ETA-14/0126 od 26.04.2021.
Tijelo za tehničko ocjenjivanje:	Österreichisches Institut für Bautechnik (Austrijski institut za građevnu tehniku) (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Prijavljeno tijelo / prijavljena tijela:	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Njemačka

6. Objavljeno svojstvo:

Bitne značajke		Svojstvo	Tehnička specifikacija
	Ponašanje u slučaju požara	$A2_L$-s1,d0	EN 13501-1:2018
	Vatrootpornost	Vidi priloge ETA: D-1 do D-17, F-1 do F-17 i H-1 do M-9 te 3.1.2	EN 13501-2:2016
	Zrakopropusnost	NPD	EAD 350454-00-1104
	Vodopropusnost	NPD	
	Sadržaj, emisija i/ili oslobađanje opasnih tvari	NPD	
	Mehanička čvrstoća i stabilnost	NPD	
	Čvrstoća na udar/kretanje	NPD	
	Sposobnost prianjanja	NPD	
	Trajnost	Ispunjeno, vidi Prilog 3.3.4	
	Izolacija od zvuka koji se širi zrakom	NPD	
	Toplinsko-zaštitna tehnička svojstva	NPD	
	Propusnost za vodenu paru	NPD	

Svojstvo navedenog proizvoda odgovara objavljenom svojstvu / objavljenim svojstvima. Za sastavljanje izjave o svojstvima u skladu s Uredbom (EU) br. 305/2011 odgovoran je isključivo gore navedeni proizvođač.

Za proizvođača i u njegovo ime potpisao:

ppa Taubert

i. V. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

BS
Prijevod

IZJAVA O SVOJSTVIMA

DoP85

Pregrada za zaustavljanje požara

GEBERIT

1. Jednoznačna šifra označavanja tipa proizvoda:

Pregrada za zaustavljanje požara sa sekcijskom izolacijom sastoji se od:

- ovojnice cijevi ROCKWOOL 800
- mase za fugiranje
- Geberit sistemske cijevi:
  - Geberit Mapress nerđajući čelik, sistemska cijev CrNi (1.4301)
  - Geberit Mapress nerđajući čelik, sistemska cijev CrNiMo (1.4401)
  - Geberit Mapress nerđajući čelik, sistemska cijev CrMoTi (1.4521)
  - Geberit Mapress C-čelik sistemska cijev, pocinčana izvana
  - Geberit Mapress C-čelik sistemska cijev, pocinčana iznutra i izvana
  - Geberit Mapress C-čelik sistemska cijev, plastificirana
  - Geberit Mepla sistemska cijev ML
  - Geberit Mepla sistemska cijev ML, MeplaTherm
  - Geberit sistemska cijev PB
  - Geberit sistemska cijev ML
  - Geberit sistemska cijev ML, Therm
  - Geberit PushFit sistemska cijev ML
- bakrena cijev (metalne cijevi klase A1)

2. Namjena(e):

„Pregrada za zaustavljanje požara sa sekcijskom izolacijom" namijenjena je izolaciji cijevi radi privremenog ili trajnog održavanja otpornosti na vatru na servisnim otvorima u laganim i masivnim zidnim konstrukcijama i zidovima šahtova i stropovima u masivnoj konstrukciji, kroz koje su provučene različite vrste metalnih cijevi i višeslojnih spojnih cijevi.

3. Proizvođač:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švajcarska
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(i) za ocjenu i kontrolu stalnosti svojstava:

Sistem 1

5. Evropski dokument za procjenu:

Evropski dokument za procjenu:	EAD 350454-00-1104 „Proizvodi za zaštitu od požara za izolaciju i brtvljenje fuga i servisnih otvora i sprečavanje širenja vatre u slučaju požara – pregrade"
Evropska tehnička procjena:	ETA-14/0126 od 26.04.2021
Mjesto tehničke procjene:	Austrijski institut za građevinsku tehniku (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Ovlašteno(a) tijelo(a):	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Njemačka

6. Utvrđena snaga:

Osnovne karakteristike		Svojstvo	Tehničke specifikacije
	Ponašanje u slučaju požara	$A2_L$-s1,d0	EN 13501-1:2018
	Otpornost na požar	Vidi dodatke ETA: D-1 do D-17, F-1 do F-17 i H-1 do M-9 te 3.1.2	EN 13501-2:2016
	Propusnost zraka	NPD	EAD 350454-00-1104
	Propusnost vode	NPD	
	Sadržaj, emisija i/ili oslobađanje opasnih materija	NPD	
	Mehanička otornost i stabilnost	NPD	
	Otpornost na udar/pomjeranje	NPD	
	Sposobnost prianjanja	NPD	
	Trajnost	Ispunjeno, vidi dodatak 3.3.4	
	Izolacija zvučne buke	NPD	
	Zaštitna toplotno-tehnička svojstva	NPD	
	Propusnost vodene pare	NPD	

Svojstvo navedenog proizvoda je u skladu s deklariranim svojstvom / deklariranim svojstvima. Za izradu izjave o svojstvima u skladu s (EU) Propisom broj 305/2011 odgovoran je isključivo gore navedeni proizvođač.

Potpisano za i u ime proizvođača sljedećeg proizvoda:

ppa

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

i. V.

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

SR
Prevod

IZJAVA O SVOJSTVIMA

DoP85

Protivpožarna zaštita građevinskih prodora instalacija

1. Jednoznačna identifikaciona šifra tipa proizvoda:

Razdvajanje zaštite od požara sa izolacijom voda se sastoji od:

- obloga cevi ROCKWOOL 800
- punjača procepa
- Geberit sistemskih cevi:
  - Geberit Mapress nerđajući čelik, sistemska cev CrNi (1.4301)
  - Geberit Mapress nerđajući čelik, sistemska cev CrNiMo (1.4401)
  - Geberit Mapress nerđajući čelik, sistemska cev CrMoTi (1.4521)
  - Geberit Mapress ugljenični čelik, sistemska cev pocinkovana spolja
  - Geberit Mapress ugljenični čelik, sistemska cev pocinkovana spolja i iznutra
  - Geberit Mapress ugljenični čelik plastificirana sistemska cev
  - Geberit Mepla višeslojna sistemska cev
  - Geberit Mepla višeslojna sistemska cev, MeplaTherm
  - Geberit sistemska cev PB
  - Geberit višeslojna sistemska cev
  - Geberit višeslojna sistemska cev, Therm
  - Geberit PushFit višeslojna sistemska cev
- bakarna cev (metalna cev klase A1)

2. Namena(e):

„Razdvajanje zaštite od požara sa izolacijom voda“ je predviđena za upotrebu kao razdvajanje cevi za privremeno ili trajno održavanje otpornosti na vatru na otvorima u suvomontažnim zidovima, konstrukcijama sa masivnim zidovima, zidovima šahtova i tavanicama u masivnoj konstrukciji, kroz različite metalne cevi i višeslojne cevi.

3. Proizvođač:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Švajcarska
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistem(i) za ocenu i proveru postojanosti svojstava:

Sistem 1

5. Evropski dokument za ocenu:

Evropski dokument za ocenu:	EAD 350454-00-1104 „Proizvodi za zaštitu od požara sa izolacijom voda za zaptivanje i zatvaranje fuga i otvora i za zadržavanje vatre u slučaju požara – pregrade“
Evropska tehnička ocena:	ETA-14/0126 od 26.04.2021
Mesto tehničke ocene:	Institut za građevinsku tehniku Austrije (OIB), Schenkenstrasse 4, 1010 Beč, Austrija
Notifkovano(a) mesto(a):	Br. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Nemačka

6. Navedena snaga:

Važne karakteristike		Svojstvo	Tehnička specifikacija
	Ponašanje u slučaju požara	$A2_L$-s1,d0	EN 13501-1:2018
	Otpornost na vatru	Vidi dodatke ETA: D-1 do D-17, F-1 do F-17 i H-1 do M-9, kao i 3.1.2	EN 13501-2:2016
	Propusnost vazduha	NPD	EAD 350454-00-1104
	Propusnost vode	NPD	
	Sadržaj, emisija i/ili oslobađanje opasnih materija	NPD	
	Mehanička čvrstina i stabilnost	NPD	
	Otpornost na udar/pomeranje	NPD	
	Sposobnost prianjanja	NPD	
	Trajnost	Ispunjena, vidi dodatak 3.3.4	
	Izolacija buke koja se prenosi vazduhom	NPD	
	Svojstva koja se odnose na zaštitu od toplote	NPD	
	Propusnost vodene pare	NPD	

Svojstvo prethodnog proizvoda odgovara navedenom svojstvu/navedenim svojstvima. Za izradu izjave o svojstvima u skladu sa odredbom (EU) br. 305/2011 odgovoran je jedino gore navedeni proizvođač.

Za proizvođača i u ime proizvođača potpisao:

ppa Taubert

i. V. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

МК
Превод

ДЕКЛАРАЦИЈА ЗА ПЕРФОРМАНСИ

DoP85

Противпожарна бариера

1. Единствен идентификациски код за типот на производ:

Заштитата од пожар со изолација на секција се состои од:

- Цевна обвивка ROCKWOOL 800
- Средство за фугирање
- Geberit системски цевки:
  - Geberit Mapress системска цевка од нерѓосувачки челик CrNi (1.4301)
  - Geberit Mapress системска цевка од нерѓосувачки челик CrNiMo (1.4401)
  - Geberit Mapress системска цевка од нерѓосувачки челик CrMoTi (1.4521)
  - Geberit Mapress C-челик системска цевка поцинкувана надворешно
  - Geberit Mapress C-челик системска цевка поцинкувана надворешно и внатрешн
  - Geberit Mapress C-челик системска цевка обложена со пластика
  - Geberit Mepla системска цевка ML
  - Geberit Mepla системска цевка ML, MeplaTherm
  - Geberit системска цевка PB
  - Geberit системска цевка ML
  - Geberit системска цевка ML, Therm
  - Geberit PushFit системска цевка ML
- Бакарна цевка (метална цевка класа A1)

2. Намена(-и):

„Заштитата од пожар со изолација на секција“ се користи за поделба на цевка за привремено или трајно одржување на отпорноста од пожари на отвори во лесни ѕидни конструкции, масивни ѕидни конструкции, ѕидни шахти и кровови во масивни градби преку кои широк вариетет на метални цевки и повеќеслојни цевки поминуваат.

3. Производител:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швајцарија
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Систем(-и) за процена и проверка за постојаност на перформанси:

Систем 1

5. Европски документ за проценка:

Европски документ за проценка:	EAD 350454-00-1104 „Производи за заштита од пожар за заптивање и затворање на фуги и отвори и за запирање на оган во случај на пожар - прегради“
Европска техничка проценка:	ETA-14/0126 од 26.04.2021
Тело за техничка проценка:	Австриски институт за градежништво (OIB), Шенкенштрасе 4, 1010 Виена, Австрија (Schenkenstrasse 4, 1010 Wien, Österreich)
Акредитирано тело (тела):	Бр. 0761, (MPA Брауншвајг, Бетовенштрасе 52, 38106 Брауншвајг, Германија) MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Декларирана перформанс:

Главни карактеристики		Перформанси	Технички спецификации
	Однесување при пожар	$A2_L$-s1,d0	EN 13501-1:2018
	Огноотпорност	Видете го додатокот на ETA: D-1 до D-17, F-1 до F-17 и H-1 до M-9, како и 3.1.2	EN 13501-2:2016
	Пропустливост на воздух	NPD	EAD 350454-00-1104
	Пропустливост на вода	NPD	
	Содржина, емисии и/или ослободување опасни супстанции	NPD	
	Механичка сила и стабилност	NPD	
	Отпорност на удар/движење	NPD	
	Лепливост	NPD	
	Трајност	Исполнува, видете го додатокот 3.3.4	
	Воздушна звучна изолација	NPD	
	Својства во однос на отпорност на топлина	NPD	
	Пропустливост на водна пареа	NPD	

Работата на производот соодветствува на декларираниот перформанс(-и). Производителот е одговорен за декларацијата за перформансот согласно (ЕУ) бр. 305/2011.

Потпишано од производителот и во име на производителот:

ppa

i. V.

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

EL
Μετάφραση

ΔΉΛΩΣΗ ΑΠΌΔΟΣΗΣ

DoP85

Στοιχείο πυροφραγμού

1. Μοναδικός κωδικός ταυτοποίησης του τύπου του προϊόντος:

Το στοιχείο πυροφραγμού με απομόνωση τμήματος αποτελείται από:

- Κέλυφος σωλήνα ROCKWOOL 800
- Υλικό πλήρωσης αρμών
- Σωλήνας συστήματος Geberit:
  - Σωλήνας συστήματος Geberit Mapress ανοξείδωτος χάλυβας CrNi (1.4301)
  - Σωλήνας συστήματος Geberit Mapress ανοξείδωτος χάλυβας CrNiMo (1.4401)
  - Σωλήνας συστήματος Geberit Mapress ανοξείδωτος χάλυβας CrMoTi (1.4521)
  - Σωλήνας συστήματος εξωτερικά επιψευδαργυρωμένος Geberit Mapress χάλυβας C
  - Σωλήνας συστήματος εσωτερικά και εξωτερικά επιψευδαργυρωμένος Geberit Mapress χάλυβας C
  - Σωλήνας συστήματος με πλαστικό περίβλημα Geberit Mapress χάλυβας C
  - Σωλήνας συστήματος ML Geberit Mepla
  - Σωλήνας συστήματος ML Geberit Mepla, MeplaTherm
  - Σωλήνας συστήματος PB Geberit
  - Σωλήνας συστήματος ML Geberit
  - Σωλήνας συστήματος ML Geberit, Therm
  - Σωλήνας συστήματος ML Geberit PushFit
- Χάλκινος σωλήνας (Μεταλλικοί σωλήνες κατηγορίας A1)

2. Σκοπός/-οί χρήσης:

Το "στοιχείο πυροφραγμού με απομόνωση τμήματος" προορίζεται για χρήση ως διάταξη στεγανοποίησης σωλήνων για προσωρινή ή μόνιμη διατήρηση της αντίστασης σε πυρκαγιά σε ανοίγματα σε ελαφριές κατασκευές τοίχων, συμπαγείς κατασκευές τοίχων, τοίχους φρεατίων και οροφές σε συμπαγή κατασκευαστική μέθοδο, μέσω των οποίων περνιούνται διάφοροι μεταλλικοί σωλήνες και πολυστρωματικοί σωλήνες πολλαπλών υλικών.

3. Κατασκευαστής:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Ελβετία
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Σύστημα/-τα αξιολόγησης και επαλήθευσης της σταθερότητας της απόδοσης:

Σύστημα 1

5. Ευρωπαϊκό έγγραφο αξιολόγησης:

Ευρωπαϊκό έγγραφο αξιολόγησης:	EAD 350454-00-1104 "Προϊόντα πυροπροστασίας για στεγανοποίηση και κλείσιμο αρμών και ανοιγμάτων και για παραμονή φωτιάς σε περιορισμό πυρκαγιάς"
Ευρωπαϊκή τεχνική αξιολόγηση:	ETA-14/0126 από 26.04.2021
Οργανισμός τεχνικής αξιολόγησης:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Βιέννη, Αυστρία
Κοινοποιημένος/-οι οργανισμός/-οι:	Αρ. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Γερμανία

6. Δηλωθείσα απόδοση:

Ουσιώδη χαρακτηριστικά		Απόδοση	Τεχνική προδιαγραφή
	Συμπεριφορά σε πυρκαγιά	$A2_L$-s1,d0	EN 13501-1:2018
	Αντίσταση σε πυρκαγιά	Βλέπε παράρτημα ETA: D-1 έως D-17, F-1 έως F-17 και H-1 έως M-9 όπως και 3.1.2	EN 13501-2:2016
	Αεροπερατότητα	Μη καθορισμένη απόδοση	EAD 350454-00-1104
	Υδατοπερατότητα	Μη καθορισμένη απόδοση	
	Περιεκτικότητα σε, εκπομπή και/ή απελευθέρωση επικίνδυνων ουσιών	Μη καθορισμένη απόδοση	
	Μηχανική αντοχή και ευστάθεια	Μη καθορισμένη απόδοση	
	Αντοχή σε κρούση/κίνηση	Μη καθορισμένη απόδοση	
	Πρόσφυση	Μη καθορισμένη απόδοση	
	Ανθεκτικότητα	Πληρείται, βλέπε παράρτημα 3.3.4	
	Ηχομόνωση	Μη καθορισμένη απόδοση	
	Τεχνικές ιδιότητες σχετικές με την αντίσταση θερμοδιαφυγής	Μη καθορισμένη απόδοση	
	Υδρατμοπερατότητα	Μη καθορισμένη απόδοση	

Η απόδοση του προαναφερόμενου προϊόντος ανταποκρίνεται προς την απόδοση/τις αποδόσεις που δηλώθηκε/-αν. Η δήλωση απόδοσης εκδίδεται με αποκλειστική ευθύνη του κατασκευαστή σε συμμόρφωση με τον Κανονισμό (ΕΕ) υπ' αριθμ. 305/2011.

Υπογραφή για λογαριασμό και εξ ονόματος του κατασκευαστή από:

ppa Taubert

i.V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

SQ
Përkthim

DEKLARATA E PERFORMANCËS

DoP85

Mbrojtja nga zjarri

1. Kodi unik i identifikimit të tipit të produktit:

Vulosja e mbrojtjes nga zjarri me izolimin e seksionit përbëhet nga:

- Mbështjellëse tubash ROCKWOOL 800
- Mbushës
- Tuba sistemi Geberit
  - Tub sistemi çeliku inoks Geberit Mapress CrNi (1.4301)
  - Tub sistemi çeliku inoks Geberit Mapress CrNiMo (1.4401)
  - Tub sistemi çeliku inoks Geberit Mapress CrMoTi (1.4521)
  - Tub sistemi prej çelik karboni Geberit Mapress i galvanizuar nga jashtë
  - Tub sistemi prej çelik karboni Geberit Mapress i galvanizuar brenda dhe jashtë
  - Tub sistemi Geberit prej çelik karboni Mapress, i mbështjellë me plastikë
  - Tub sistemi ML Geberit Mepla
  - Tub sistemi ML Geberit Mepla, MeplaTherm
  - Tub sistemi PB Geberit
  - Tub sistemi ML Geberit
  - Tub sistemi ML Geberit, Therm
  - Tub sistemi ML Geberit PushFit
- Tub bakri (tuba metalikë të klasës A1)

2. Qëllimi(et) e përdorimit:

"Ndarja e mbrojtjes nga zjarri me izolim seksioni" është menduar për t'u përdorur si një ndarje tubi për mirëmbajtjen e përkohshme ose të përhershme të rezistencës ndaj zjarrit në hapjet në konstruksionet e mureve të lehta, konstruksionet e mureve të ngurta, muret e boshtit dhe tavanet në konstruksion të fortë, përmes të cilave kalojnë një larmi të madhe të tubave metalikë dhe tubave me shumë shtresa.

3. Prodhuesi:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Zvicër
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Sistemi(et) për vlerësimin dhe verifikimin e qëndrueshmërisë së performancës:

Sistemi 1

5. Dokumenti i Vlerësimit Evropian:

Dokumenti i Vlerësimit Evropian:	EAD 350454-00-1104 "Produkte të mbrojtjes nga zjarri për mbylljen dhe mbylljen e nyjeve dhe hapjeve dhe për ndalimin e zjarrit në rast zjarri - pjesët kryesore"
Vlerësimi Teknik Evropian:	ETA-14/0126 nga 26 prill 2021
Organi i Vlerësimit Teknik:	Österreichisches Institut für Bautechnik (OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Organi(et) e notifikuara:	Nr. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Performanca e deklaruar:

Karakteristika themelore		Performanca	Specifikimi teknik
	Sjellja në rast zjarri	$A2_L$-s1,d0	EN 13501-1:2018
	Rezistenca ndaj zjarrit	Shikoni bashkëngjitjet për ETA: D-1 deri në D-17, F-1 në F-17 dhe H-1 në M-9, si dhe 3.1.2	EN 13501-2:2016
	Përshkueshmëria e ajrit	NPD	EAD 350454-00-1104
	Përçueshmëria e ujit	NPD	
	Përmbajtja, emetimet dhe/ose çlirimi i lëndëve të rrezikshme	NPD	
	Rezistenca mekanike dhe qëndrueshmëria	NPD	
	Rezistenca ndaj goditjes/lëvizjes	NPD	
	Aftësia ngjitëse	NPD	
	Qëndrueshmëria	Përmbushur, shih Shtojcën 3.3.4	
	Mbytja e zhurmës së përçuar nga ajri	NPD	
	Karakteristikat teknike të mbrojtjes nga nxehtësia	NPD	
	Përçueshmëria e avujve të ujit	NPD	

Performanca e produktit të sipërpërmendur përputhet me performancën/performancat e deklaruara për të. Lëshimi i deklaratës së performancës në përputhje me Rregulloren (BE) nr. 305/2011 është përgjegjësi vetëm e prodhuesit të cituar më lart.

Nënshkruar për prodhuesin dhe në emër të prodhuesit:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

TR
Çeviri

PERFORMANS BEYANNAMESİ

DoP85

Yangına dayanıklı boru yalıtımı

1. Ürün türünün benzersiz kimlik kodu

Yangına dayanıklı boru yalıtım kiti şu alt parçalardan oluşur:

- Boru izolasyonu ROCKWOOL 800
- Derz dolgu
- Geberit Sistem boruları:
  - Geberit Mapress Paslanmaz Çelik sistem borusu CrNi (1.4301)
  - Geberit Mapress Paslanmaz Çelik sistem borusu CrNiMo (1.4401)
  - Geberit Mapress Paslanmaz Çelik sistem borusu CrMoTi (1.4521)
  - Geberit Mapress Karbon Çeliği sistem borusu, dışı galvanizli
  - Geberit Mapress Karbon Çeliği sistem borusu, içi ve dışı galvanizli
  - Geberit Mapress Karbon Çeliği sistem borusu, plastik kaplamalı
  - Geberit Mepla sistem borusu ML
  - Geberit Mepla sistem borusu ML, MeplaTherm
  - Geberit sistem borusu PB
  - Geberit sistem borusu ML
  - Geberit sistem borusu ML, Therm
  - Geberit PushFit sistem borusu ML
- Bakır boru (A1 sınıfı metal boru)

2. Kullanım amacı/amaçları:

"Yangına dayanıklı boru yalıtım kiti", binaların hafif ve masif yapılı duvarlarında, niş duvarlarında ve tavanlarında açılan deliklerin/kanalların içinden geçen çeşitli metal boruların ve çok katmanlı kompozit boruların tam boy izole edilerek, geçici veya sürekli olarak yangına karşı dayanıklılığının sağlanmasında kullanılmak üzere tasarlanmıştır.

3. Üretici:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
İsviçre
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Performans sabitliğini değerlendirmek ve doğrulamak için sistem/sistemler:

Sistem 1

5. Avrupa Değerlendirme Dokümanı:

Avrupa Değerlendirme Dokümanı:	EAD 350454-00-1104 "Binalardaki derzleri ve delikleri sızdırmaz hâle getirmeye ve kapatmaya yarayan, yangın çıktığında alevlerin yayılmasını önleyen yangına dayanıklı ürünler - Yalıtım bölmeleri"
Avrupa Teknik Değerlendirme Dokümanı:	26.04.2021 tarihli ETA-14/0126
Teknik Değerlendirme Kuruluşu:	Avusturya Yapı Teknolojileri Enstitüsü (OIB), Schenkenstrasse 4, 1010 Viyana, Avusturya
Onaylanmış kuruluş(lar):	No. 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Almanya

6. Beyan Edilen Performans:

Temel Özellikler		Performans	Teknik Özellikler
	Yangın davranışı	$A2_L$-s1,d0	EN 13501-1:2018
	Yangına dayanıklılık	Şu ETA Eklerine bakınız: D-1'den D-17'ye, F-1'den F-17'ye ve H-1'den M-9'a kadar olan Ekler ile Ek 3.1.2	EN 13501-2:2016
	Hava geçirgenliği	NPD	EAD 350454-00-1104
	Su geçirgenliği	NPD	
	Tehlikeli madde miktarı, emisyonu ve/veya salımı	NPD	
	Mekanik dayanıklılık ve sağlamlık	NPD	
	Darbeye/harekete karşı dayanıklılık	NPD	
	Yapışma özelliği	NPD	
	Dayanıklılık	Sağlanmıştır, Ek 3.3.4'e bakınız	
	Hava ortamında ses yalıtımı	NPD	
	Isıya karşı koruma özellikleri	NPD	
	Su buharı geçirgenliği	NPD	

Yukarıdaki ürünün performansı beyan edilen performansa/performanslara eş değerdir. Yalnızca yukarıda belirtilen üretici 305/2011 (AB) numaralı mevzuat uyarınca performans beyannamesinin tanzim edilmesinden sorumludur.

Üretici için ve üretici adına imzalayan:

ppa

i.V.

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

RU
Перевод

ДЕКЛАРАЦИЯ ОСНОВНЫХ ПОКАЗАТЕЛЕЙ

GEBERIT

DoP85

Разделительная противопожарная изоляция

1. Однозначный идентификационный код типа изделия:

Разделительная противопожарная изоляция с изоляцией отдельных участков состоит из следующих компонентов:

- Оболочка трубы ROCKWOOL 800
- Шовный заполнитель
- Трубы систем Geberit:
  - Труба системы Geberit Mapress из нержавеющей стали, CrNi (1.4301)
  - Труба системы Geberit Mapress из нержавеющей стали, CrNiMo (1.4401)
  - Труба системы Geberit Mapress из нержавеющей стали, CrMoTi (1.4521)
  - Труба системы Geberit Mapress из углеродистой стали, с внешним цинковым покрытием
  - Труба системы Geberit Mapress из углеродистой стали, с внешним и внутренним цинковым покрытием
  - Труба системы Geberit Mapress из углеродистой стали, с полимерным покрытием
  - Труба системы ML Geberit Mepla
  - Труба системы ML Geberit Mepla, MeplaTherm
  - Труба системы PB Geberit
  - Труба системы ML Geberit
  - Труба системы ML Geberit, Therm
  - Труба системы ML Geberit PushFit
- Медная труба (металлическая труба класса A1)

2. Применение(-я):

Разделительная противопожарная изоляция с изоляцией отдельных участков предусмотрена для использования в качестве изоляции для труб с целью временного или постоянного поддержания противопожарной устойчивости в отверстиях конструкций легких стен, капитальных стен, стен шахт, капитальных потолков, через которые проходят различные металлические и многослойные трубы.

3. Производитель:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швейцария
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Система(-ы) для оценки и проверки постоянства рабочих показателей:

Система 1

5. Европейский оценочный документ:

Европейский оценочный документ:	EAD 350454-00-1104 «Противопожарная продукция для уплотнения и закрытия щелей и отверстий, а также для задержания огня в случае пожара – изоляция»
Европейская техническая оценка:	ETA-14/0126 от 26.04.2021
Орган, который провел техническую оценку:	Австрийский институт строительных технологий (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Нотифицированный(-ые) орган(-ы):	№ 0761, MPA Braunschweig, Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Декларируемый показатель:

Основные характеристики		Показатель	Техническая спецификация
	Характеристики при пожаре	$A2_L$-s1,d0	EN 13501-1:2018
	Огнестойкость	См. приложения ETA: От D-1 до D-17, от F-1 до F-17 и от H-1 до M-9, а также 3.1.2	EN 13501-2:2016
	Воздухопроницаемость	NPD	EAD 350454-00-1104
	Водопроницаемость	NPD	
	Содержание, эмиссия и/или высвобождение опасных веществ	NPD	
	Механическая прочность и стойкость	NPD	
	Прочность при ударах и перемещении	NPD	
	Адгезионная способность	NPD	
	Прочность	Выполняется, см. приложение 3.3.4	
	Изоляция от воздушного шума	NPD	
	Теплоизоляционные характеристики	NPD	
	Паропроницаемость	NPD	

Показатель вышеуказанного изделия соответствует декларируемому показателю / декларируемым показателям. За составление декларации основных показателей в соответствии с постановлением (ЕС) № 305/2011 ответственность несет исключительно указанный выше производитель.

Подписано за производителя и от его имени:

ppa Taubert

i.V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

UK
Переклад

ДЕКЛАРАЦІЯ РОБОЧИХ ПОКАЗНИКІВ

DoP85

Протипожежна проходка

1. Однозначний ідентифікаційний код типу виробу:

Розділювальна протипожежна ізоляція з ізоляцією трубопроводу складається з:

- ізоляція для труб ROCKWOOL 800
- заповнювач швів
- труби системи Geberit:
  - Труба системи Geberit Mapress із нержавіючої сталі CrNi (1.4301)
  - Труба системи Geberit Mapress із нержавіючої сталі CrNiMo (1.4401)
  - Труба системи Geberit Mapress із нержавіючої сталі CrMoTi (1.4521)
  - Труба системи Geberit Mapress із вуглецевої сталі, оцинкована ззовні
  - Труба системи Geberit Mapress із вуглецевої сталі, оцинкована всередині і ззовні
  - Труба системи Geberit Mapress із вуглецевої сталі із полімерним покривом
  - Труба системи ML Geberit Mepla
  - Труба системи ML Geberit Mepla, MeplaTherm
  - Труба системи PB Geberit
  - Труба системи ML Geberit
  - Труба системи ML Geberit, Therm
  - Труба системи ML Geberit PushFit
- мідна труба (металеві труби клас A1)

2. Призначення:

«Розділювальна протипожежна ізоляція з ізоляцією трубопроводу» як ізоляція для труб призначена для тимчасового або постійного забезпечення вогнестійкості отворів у стінах полегшеної конструкції, капітальних стінах, стінках шахт й монолітних перекриттях, через які проходять найрізноманітніші металеві й багатошарові труби.

3. Виробник:

Geberit International AG
Schachenstrasse 77
CH-8645 Jona
Швейцарія
+41 55 221 63 00
product.compliance@geberit.com
www.geberit.com/declarations

4. Система(-и) оцінки й контролю сталості робочих показників:

Система 1

5. Європейський оціночний документ:

Європейський оціночний документ:	EAD 350454-00-1104 «Матеріали й вироби для ущільнення й заповнення швів та отворів з метою перешкоджання проникненню вогню — протипожежна ізоляція»
Європейська технічна оцінка:	ETA-14/0126 від 26.04.2021
Орган, що виконав технічну оцінку:	Австрійський інститут будівельних технологій (Österreichisches Institut für Bautechnik, OIB), Schenkenstrasse 4, 1010 Wien, Österreich
Нотифікований(ні) орган(и):	№ 0761, Управління з випробування матеріалів у місті Брауншвейг (MPA Braunschweig), Beethovenstrasse 52, 38106 Braunschweig, Deutschland

6. Декларовані показники:

Основні характеристики		Показник	Технічна специфікація
	Вогнетривкість	$A2_L$-s1,d0	EN 13501-1:2018
	Вогнестійкість	Див. додатки Європейської технічної оцінки (ETA): від D-1 до D-17, від F-1 до F-17 і від H-1 до M-9, а також 3.1.2	EN 13501-2:2016
	Повітропроникність	NPD	EAD 350454-00-1104
	Водопроникність	NPD	
	Вміст, викиди та/або вивільнення небезпечних речовин	NPD	
	Механічна міцність і стійкість	NPD	
	Міцність щодо ударів або руху	NPD	
	Адгезійна здатність	NPD	
	Довговічність	Відповідає, див. додаток 3.3.4	
	Ізоляція шуму, що поширюється повітрям	NPD	
	Теплоізоляційні властивості	NPD	
	Паропроникність	NPD	

Показник вищезазначеного виробу відповідає декларованому показнику / декларованим показникам. Відповідальність за складання Декларації робочих показників відповідно до Регламенту (ЄС) № 305/2011 несе виключно виробник.

Підписано за виробника та від його імені:

ppa Taubert

i. V. J. Schneider

Georg Taubert
Head Standardisation, Approvals, Regulatory Affairs

Jörg Schneider
Head Product Compliance

Jona, 29.10.2021

Austrian Institute of Construction Engineering
Schenkenstrasse 4 | T +43 1 533 65 50
1010 Vienna | Austria | F +43 1 533 64 23
www.oib.or.at | mail@oib.or.at

Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA
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European Technical Assessment

ETA-14/0126 of 26.04.2021

General part

Technical Assessment Body issuing the European Technical Assessment	Österreichisches Institut für Bautechnik (OIB) Austrian Institute of Construction Engineering
Trade name of the construction product	Brandschutzabschottung mit Streckenisolierung
Product family to which the construction product belongs	Fire Stopping and Fire Sealing Products: Penetration Seals
Manufacturer	Geberit International AG Schachenstrasse 77 8645 Jona SWITZERLAND
Manufacturing plant	Geberit International AG Schachenstrasse 77 8645 Jona SWITZERLAND
This European Technical Assessment contains	126 pages including Annexes A-1 to M-9 which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	European Assessment Document (EAD) 350454-00-1104 “Fire stopping and fire sealing products – Penetration seals”
This European Technical Assessment replaces	European Technical Assessment ETA-14/0126 of 26.07.2018

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Specific parts

1 Technical description of the product

"Brandschutzabschottung mit Streckenisolierung" is a kit to be used as pipe penetration seal based on the pipe section "Rockwool 800" and additional gap fillers.

Components of "Brandschutzabschottung mit Streckenisolierung"	Characteristics
Rockwool 800	Pipe section according to EN 14303 with a nominal length of 1000 mm made from stone wool with a nominal density of 90 kg/m³ to 115 kg/m³ and a melting point > 1000 °C according to DIN 4102-17, covered with reinforced aluminium foil with a self-adhesive tape from manufacturer "DEUTSCHE ROCKWOOL GmbH & Co. KG" (for details see Annex B-1 of the ETA)

Additional components – Gap fillers	Characteristics
Gap filler	Non-combustible material with classification A1 or A2-s1,d0 according to EN 13501-1 which is dimensionally stable as e.g. mortar, cement or gypsum joint filler
Gap filler for metal pipes in rigid floors with branches	Cement based masonry mortar according to EN 998-2, containing Portland cement, with a minimum dry bulk density of 850 kg/m³, a minimum compressive strength of 8,2 N/mm², resp. minimum class M 5 according to EN 998-2 and classification A1 according to EN 13501-1 – only to be used as gap filler for metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB"

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1 Intended use

"Brandschutzabschottung mit Streckenisolierung" is intended to be used as a pipe penetration seal to temporarily or permanently reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions, shaft walls and rigid floor constructions where they have been provided with apertures which are penetrated by various metal pipes and multi-layer composite pipes.

"Brandschutzabschottung mit Streckenisolierung" can be installed only in the types of separating elements as specified in the following table.

Separating element	Construction
Flexible walls	> Steel studs or timber studs lined on both faces with minimum 2 layer of boards (minimum thickness 12,5 mm) with classification A2-s1,d0 or A1 according to EN 13501-1 > For timber stud walls there shall be a minimum distance of 100 mm of the penetration seal to any timber stud. The cavity between the penetration seal and the timber stud has to be closed with minimum 100 mm of insulation with classification A1 or A2 according to EN 13501-1 > Minimum thickness 94 mm > Classification according to EN 13501-2: ≥ EI 90 > This European Technical Assessment does not cover sandwich panel constructions and flexible walls were the lining does not cover studs on both sides. Penetrations in such constructions shall be tested on a case by case basis
Rigid walls	> Aerated concrete, concrete, masonry > Minimum thickness 100 mm > The rigid wall shall be classified in accordance with EN 13501-2 for the required fire resistance period
Shaft walls	> Steel studs according to EN 14195 lined on one face > Thickness (number of layers x thickness of board) and type of board: 3 x 15 mm, gypsum plasterboards type DF according to EN 520 with classification A2-s1,d0 or A1 according to EN 13501-1 > Between the profiles stone wool according to EN 13162 (reaction to fire class A1 according to EN 13501-1) with a density of 40 kg/m³ and a melting point > 1000 °C according to DIN 4102-17 and a thickness of 40 mm has to be installed > Nominal width of profiles: 50 mm (e.g. CW 50) > Maximum distance between steel studs: 625 mm > The mechanical resistance and stability has to be given for the required fire resistance period > Classification according to EN 13501-2: ≥ EI 90
Rigid floors	> Aerated concrete, concrete > Minimum density 600 kg/m³ > Minimum thickness 150 mm > The rigid floor shall be classified in accordance with EN 13501-2 for the required fire resistance period
Rigid floors[1]	> Aerated concrete, concrete > Minimum density 550 kg/m³ > Minimum thickness 150 mm > The rigid floor shall be classified in accordance with EN 13501-2 for the required fire resistance period

[1] Only valid for metal pipes according to clause 2.1 of the ETA with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB"

"Brandschutzabschottung mit Streckenisolierung" can only be configured as specified in the following tables. Other parts or service support constructions shall not penetrate the penetration seal.

Penetrating element	Construction characteristics for installation of the penetrating element in flexible walls and rigid walls
Metal pipes	> Metal pipes of reaction to fire class A1 according to EN 13501-1 with a melting or decomposition point greater or equal than copper (1006 °C for EI 90) and a thermal conductivity smaller or equal than copper with diameters and wall thicknesses as defined in Annex D-1 ETA > "Mapress Edelstahl 1.4301" (= "Geberit Mapress Edelstahl Systemrohr CrNi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-2 of the ETA > "Mapress Edelstahl 1.4401" (= "Geberit Mapress Edelstahl Systemrohr CrNiMo") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-3 of the ETA > "Mapress Edelstahl 1.4521" (= "Geberit Mapress Edelstahl Systemrohr CrMoTi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-4 of the ETA > "Mapress C-Stahl (außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-5 of the ETA > "Mapress C-Stahl (innen und außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr innen und aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-6 of the ETA > "Mapress C-Stahl PP-Kunststoffmantel" (= "Geberit Mapress C-Stahl Systemrohr kunststoffummantelt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-7 of the ETA
Multi-layer composite pipes	> "Geberit Mepla Systemrohr" (= "Geberit Mepla Systemrohr ML") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-8 and Annex D-13 of the ETA > "Geberit Mepla Systemrohr Mepla Therm" (= "Geberit Mepla Systemrohr ML, MeplaTherm") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-9 and Annex D-14 of the ETA > "Geberit PushFit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-10 and Annex D-15 of the ETA > "Geberit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-11 and Annex D-16 of the ETA > "Geberit Systemrohr ML, Therm" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-12 and Annex D-17 of the ETA

Penetrating element	Construction characteristics for installation of the penetrating element in shaft walls
Metal pipes	> "Mapress Edelstahl 1.4301" (= "Geberit Mapress Edelstahl Systemrohr CrNi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-2 of the ETA > "Mapress Edelstahl 1.4401" (= "Geberit Mapress Edelstahl Systemrohr CrNiMo") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-3 of the ETA > "Mapress Edelstahl 1.4521" (= "Geberit Mapress Edelstahl Systemrohr CrMoTi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-4 of the ETA > "Mapress C-Stahl (außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-5 of the ETA > "Mapress C-Stahl (innen und außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr innen und aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-6 of the ETA > "Mapress C-Stahl PP-Kunststoffmantel" (= "Geberit Mapress C-Stahl Systemrohr kunststoffummantelt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-7 of the ETA
Multi-layer composite pipes	> "Geberit Mepla Systemrohr" (= "Geberit Mepla Systemrohr ML") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-8 of the ETA > "Geberit Mepla Systemrohr Mepla Therm" (= "Geberit Mepla Systemrohr ML, MeplaTherm") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex D-9 of the ETA

Penetrating element	Construction characteristics for installation of the penetrating element in rigid floors
Metal pipes	> Metal pipes of reaction to fire class A1 according to EN 13501-1 with a melting or decomposition point greater or equal than copper (1006 °C for EI 90) and a thermal conductivity smaller or equal than copper with diameters and wall thicknesses as defined in Annex F-1 of the ETA > "Mapress Edelstahl 1.4301" (= "Geberit Mapress Edelstahl Systemrohr CrNi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-2 of the ETA > "Mapress Edelstahl 1.4401" (= "Geberit Mapress Edelstahl Systemrohr CrNiMo") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-3 of the ETA > "Mapress Edelstahl 1.4521" (= "Geberit Mapress Edelstahl Systemrohr CrMoTi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-4 of the ETA > "Mapress C-Stahl (außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-5 of the ETA > "Mapress C-Stahl (innen und außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr innen und aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-6 of the ETA > "Mapress C-Stahl PP-Kunststoffmantel" (= "Geberit Mapress C-Stahl Systemrohr kunststoffummantelt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-7 of the ETA
Multi-layer composite pipes	> "Geberit Mepla Systemrohr" (= "Geberit Mepla Systemrohr ML") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-8 and Annex F-13 of the ETA > "Geberit Mepla Systemrohr Mepla Therm" (= "Geberit Mepla Systemrohr ML, MeplaTherm") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-9 and Annex F-14 of the ETA > "Geberit PushFit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-10 and Annex F-15 of the ETA > "Geberit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-11 and Annex F-16 of the ETA > "Geberit Systemrohr ML, Therm" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex F-12 and Annex F-17 of the ETA

Penetrating element	**Construction characteristics for installation of the penetrating element with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" in rigid floors**
Metal pipes	> Metal pipes of reaction to fire class A1 according to EN 13501-1 with a melting or decomposition point greater or equal than copper (1006 °C for EI 90; 1049 °C for EI 120) and a thermal conductivity smaller or equal than copper with diameters and wall thicknesses as defined in Annex H-1 to Annex H-11 of the ETA > "Mapress Edelstahl 1.4301" (= "Geberit Mapress Edelstahl Systemrohr CrNi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex I-1 to Annex I-9 of the ETA > "Mapress Edelstahl 1.4401" (= "Geberit Mapress Edelstahl Systemrohr CrNiMo") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex J-1 to Annex J-9 of the ETA > "Mapress Edelstahl 1.4521" (= "Geberit Mapress Edelstahl Systemrohr CrMoTi") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex K-1 to Annex K-6 of the ETA > "Mapress C-Stahl (außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex L-1 to Annex L-9 of the ETA > "Mapress C-Stahl (innen und außen verzinkt)" (= "Geberit Mapress C-Stahl Systemrohr innen und aussen verzinkt") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex M-1 to Annex M-9 of the ETA
Branch	**Construction characteristics for installation of the branch above the rigid floor**
Multi-layer composite pipes	> "Geberit Mepla Systemrohr" (= "Geberit Mepla Systemrohr ML") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-1 to H-3, Annex I-1 to I-2, Annex J-1 to J-2, Annex K-1, Annex L-1 to L-2 and Annex M-1 to M-2 of the ETA > "Geberit Mepla Systemrohr Mepla Therm" (= "Geberit Mepla Systemrohr ML, MeplaTherm") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-4 to H-6, Annex I-3 to I-4, Annex J-3 to J-4, Annex K-2, Annex L-3 to L-4 and Annex M-3 to M-4 of the ETA

Branch	Construction characteristics for installation of the branch above the rigid floor
Multi-layer composite pipes	> "Geberit PushFit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-7, Annex I-5, Annex J-5, Annex K-3, Annex L-5 and Annex M-5 of the ETA > "Geberit Systemrohr ML" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-8, Annex I-6, Annex J-6, Annex K-4, Annex L-6 and Annex M-6 of the ETA > "Geberit Systemrohr ML, Therm" from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-9, Annex I-7, Annex J-7, Annex K-5, Annex L-7 and Annex M-7 of the ETA > "Geberit PushFit Systemrohr PB" (= "Geberit Systemrohr PB") from manufacturer "Geberit Vertriebs GmbH & Co KG" with diameters and wall thicknesses as defined in Annex H-10 to H-11, Annex I-8 to I-9, Annex J-8 to J-9, Annex K-6, Annex L-8 to L-9 and Annex M-8 to M-9 of the ETA

2.2 Use condition

"Brandschutzabschottung mit Streckenisolierung" is intended for use at temperatures below 0 °C and with exposure to UV, but with no exposure to rain, and can therefore – according to EAD 350454-00-1104 clause 2.2.9.3.1 – be categorized as Type Y_1. Since the requirements for Type Y_1 are met, also the requirements for Type Y_2, Z_1 and Z_2 are fulfilled.

Although a penetration seal is intended for indoor applications only, the construction process may result in it being subjected to more exposed conditions for a period before the building envelope is closed. For this case provisions shall be made to protect temporarily exposed penetration seals according to the ETA-holder's installation instructions.

2.3 Working life

The provisions made in this European Technical Assessment are based on an assumed working life of "Brandschutzabschottung mit Streckenisolierung" of 10 years, provided the conditions laid down in the technical literature of the manufacturer relating to packaging, transport, storage, installation, use and repair are met.

The indications given on the intended working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, but are to be regarded only as a means for selecting the appropriate product in relation to the expected economically reasonable working life of the works.

The real working life might be, in normal use conditions, considerably longer without major degradation affecting the Basic requirements for construction works.

2.4 General assumptions

2.4.1 It is assumed that

- damages to the penetration seal are repaired accordingly,
- the installation of the penetration seal does not affect the stability of the adjacent building element – even in case of fire,
- the lintel or floor above the penetration seal is designed structurally and in terms of fire protection such that no additional mechanical load (other than its own weight) is imposed on the penetration seal,
- the thermal movement in the pipe work will be accommodated in such way that it does not impose a load on the penetration seal,
- the installations are fixed to the adjacent building element in accordance with the relevant regulations in such a way that, in case of fire, no additional mechanical load is imposed to the penetration seal,
- the support of the installations is maintained for the required period of fire resistance and
- pneumatic dispatch systems, compressed air systems, etc. are switched off by additional means in case of fire (for sealing off multi-layer composite pipes).

2.4.2 This European Technical Assessment does not address any risks associated with the emission of dangerous liquids or gases caused by failure of the pipe(s) in case of fire nor does it prove the prevention of the transmission of fire through heat transfer via the medium in the pipes.

2.4.3 This European Technical Assessment does not verify the prevention of destruction of adjacent building elements with fire separating function or of the pipes themselves due to distortion forces caused by extreme temperatures. These risks shall be accounted for by taking appropriate measures when designing or installing the pipe work.

The mounting or hanging of the pipes or the layout of the pipe work shall be implemented in such a way that the pipes and the fire resistant building elements shall remain functional within a period of time which corresponds to the fire resistance period required.

2.4.4 The risk of downward spread of fire caused by burning material which drips through a pipe to floors below, is not considered in this European Technical Assessment (see EN 1366-3:2009, clause 1).

2.4.5 The durability assessment does not take account of the possible effect on the penetration seal of substances permeating through the pipe walls.

2.4.6 The assessment does not cover the avoidance of destruction of the penetration seal or of the adjacent building element(s) by forces caused by temperature changes in case of fire. This has to be considered when designing the piping system.

2.5 Manufacturing

The European Technical Assessment is issued for the product on the basis of agreed data / information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

3 Performance of the product and references to the methods used for its assessment

Basic requirements for construction works	Essential characteristic	Method of verification	Performance
BWR 2	Reaction to fire	EN 13501-1: 2018	Clause 3.1.1 of the ETA
	Resistance to fire	EN 13501-2: 2016	Clause 3.1.2 of the ETA and Annex D-1 to D-17 and Annex F-1 to F-17 and Annex H-1 to M-9 of the ETA

Basic requirements for construction works	Essential characteristic	Method of verification	Performance
BWR 3	Air permeability	No performance assessed	
	Water permeability	No performance assessed	
	Content, emission and/or release of dangerous substances	No performance assessed	
BWR 4	Mechanical resistance and stability	No performance assessed	
	Resistance to impact / movement	No performance assessed	
	Adhesion	No performance assessed	
	Durability	EAD 350454-00-1104 clause 2.2.9	Clause 3.3.4 of the ETA
BWR 5	Airborne sound insulation	No performance assessed	
BWR 6	Thermal properties	No performance assessed	
	Water vapour permeability	No performance assessed	

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

The components of “Brandschutzabschottung mit Streckenisolierung” were assessed according to EAD 350454-00-1104 clause 2.2.1 and classified according to EN 13501-1:2018.

Component	Class according to EN 13501-1:2018
Rockwool 800	**$A2_L$-s1,d0**

3.1.2 Resistance to fire

“Brandschutzabschottung mit Streckenisolierung” was tested according to EAD 350454-00-1104 clause 2.2.2 and EN 1366-3:2009 in conjunction with EN 1363-1:1999 and EN 1363-1:2012.

Based upon the gained test results and the field of application specified within EN 1366-3:2009 the pipe penetration seal “Brandschutzabschottung mit Streckenisolierung” has been classified according to EN 13501-2:2016.

The fire resistance classes of the pipe penetration seal in the relevant separating elements are listed in Annex D-1 to D-17 and Annex F-1 to F-17 and Annex H-1 to M-9 of the ETA.

The resistance to fire classification of the pipe penetration seal in shaft walls listed in Annex D-2 to D-9 of the ETA is only valid in case of fires outside the shaft. This European Technical Assessment does not cover the case of fires within shafts.

The resistance to fire classification listed in Annex D-1 to D-17 and Annex F-1 to F-17 and Annex H-1 to M-9 of the ETA is only valid if “Brandschutzabschottung mit Streckenisolierung” is installed according to Annex A-1 to A-10 of the ETA.

3.2 Hygiene, health and the environment (BWR 3)

3.2.1 Air permeability

No performance assessed.

3.2.2 Water permeability

No performance assessed.

3.2.3 Content, emission and/or release of dangerous substances

No performance assessed.

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Mechanical resistance and stability

No performance assessed.

3.3.2 Resistance to impact / movement

No performance assessed.

3.3.3 Adhesion

No performance assessed.

3.3.4 Durability

The component “Rockwool 800” is produced according to EN 14303.

According to EAD 350454-00-1104 clause 2.2.9.2.7 mineral wool complying with the requirements of EN 14303 which are related to durability is deemed to satisfy the durability requirements for use conditions Y_1, Y_2, Z_1 and Z_2.

“Brandschutzabschottung mit Streckenisolierung” is therefore appropriate for use at temperatures below 0 °C and with exposure to UV, but with no exposure to rain, and can – according to EAD 350454-00-1104 clause 2.2.9.3.1 – be categorized as Type Y_1. Since the requirements for Type Y_1 are met, also the requirements for Type Y_2, Z_1 and Z_2 are fulfilled.

3.4 Protection against noise (BWR 5)

3.4.1 Airborne sound insulation

No performance assessed.

3.5 Energy economy and heat retention (BWR 6)

3.5.1 Thermal properties

No performance assessed.

3.5.2 Water vapour permeability

No performance assessed.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

4.1 AVCP system

According to the Decision 1999/454/EC[2], amended by Decision 2001/596/EC[3] of the European Commission the system of assessment and verification of constancy of performance (see Annex V of Regulation (EU) No 305/2011) is given in the following table.

Product(s)	**Intended use(s)**	**Level(s) or class(es)** (resistance to fire)	**System** of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for fire compartmentation and/or fire protection or fire performance	any	1

In addition, according to the Decision 1999/454/EC, amended by Decision 2001/596/EC of the European Commission the system(s) of assessment and verification of constancy of performance, with regard to reaction to fire, is given in the following table.

Product(s)	**Intended use(s)**	**Level(s) or class(es)** (reaction to fire)	**System** of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for uses subject to regulations on reaction to fire	A1*, A2*, B*, C*	1
		A1**, A2**, B**, C**, D, E	3
		(A1 to E)***, F	4

* Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

** Products/materials not covered by footnote (*)

*** Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of class A1 according to Commission Decision 96/603/EC, as amended)

[2] Official Journal of the European Communities no. L 178, 14.7.1999, p. 52
[3] Official Journal of the European Communities no. L 209, 2.8.2001, p. 33

5 Technical details necessary for the implementation of the AVCP system, as provided for the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the Technical Assessment Body Österreichisches Institut für Bautechnik.

The notified product certification body shall visit the factory at least twice a year for surveillance of the manufacturer.

Issued in Vienna on 26.04.2021
by Österreichisches Institut für Bautechnik

The original document is signed by:

Rainer Mikulits
Managing Director

1 General

> "Brandschutzabschottung mit Streckenisolierung" can be used for metal pipes and multi-layer composite pipes according to clause 2.1 of the ETA in apertures in walls (vertical separating element) and floors (horizontal separating element) according to clause 2.1 of the ETA.

> Each metal pipe or multi-layer composite pipe which is to be sealed off has to be equipped separately with "Brandschutzabschottung mit Streckenisolierung". For details see Annex C-1 to C-5 and Annex E-1 to E-3.2 and Annex G-1 to G-3 of the ETA.

> Metal pipes in rigid floors can be equipped with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB".

> The branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" have to be installed to the metal pipes by appropriate T-pieces, pipe crosses, reductions (if needed) and transition adapters given in the following table according to the ETA-holder's installation instructions.

Type	Product	Manufacturer
T-piece	Geberit Mapress Edelstahl T-Stück egal	Geberit Vertriebs GmbH & Co KG
	Geberit Mapress Edelstahl T-Stück reduziert	
	Geberit Mapress C-Stahl T-Stück egal	
	Geberit Mapress C-Stahl T-Stück reduziert	
	Geberit Mapress Kupfer T-Stück egal	
	Geberit Mapress Kupfer T-Stück reduziert	
	Geberit Mapress T-Stück reduziert	
Pipe cross	Geberit Mapress Kupfer Kreuzstück 30° reduziert	
	Geberit Mapress C-Stahl Kreuzstück reduziert	
	Geberit Mapress C-Stahl Kreuzstück 30° reduziert	
Reduction	Geberit Mapress Kupfer Reduktion mit Einschubende	
	Geberit Mapress C-Stahl Reduktion mit Einschubende	
	Geberit Mapress Edelstahl Reduktion mit Einschubende	
Transition adapter	Geberit Mepla Übergang auf Geberit Mapress	
	Geberit PushFit Übergang auf Geberit Mapress (including „Geberit PushFit Kupplung")	
	Geberit FlowFit Übergang auf Geberit Mapress	

Brandschutzabschottung mit Streckenisolierung

- Details for installation -

ANNEX A-1

- In case of metal pipes with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” located directly above the floor, the branches have to be additionally insulated with “Rockwool 800” according to Annex A-4, clause 2 of the ETA. For details see Annex G-1 to G-3 of the ETA.
- In case of metal pipes with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” located directly above the floor (insulated), the relevant T-pieces, pipe crosses, reductions (if needed) and transition adapters (according to Annex A-1, clause 1 of the ETA) have to be located within the insulation of the metal pipe and the branch. For details see Annex G-1 to G-3 of the ETA.
- For metal pipes with a diameter ≤ 54 mm with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” the location of the branch can be directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated; measured from the surface of the rigid floor). For details see Annex G-1 of the ETA.
- For metal pipes with a diameter > 54 mm with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm” or “Geberit PushFit Systemrohr PB” the location of the branch can be directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated; measured from the surface of the rigid floor) and ≥ 1000 mm above the floor (non-insulated; measured from the surface of the rigid floor). For details see Annex G-2 of the ETA.
- In some cases (see Annex H-3 and Annex H-6) – for resistance to fire class EI 120-U/C – for copper pipes with a diameter > 54 mm with branches made of “Geberit Mepla Systemrohr” or “Geberit Mepla Systemrohr Mepla Therm” the location of the branch can only be directly above the floor (insulated) and ≥ 1000 mm above the floor (non-insulated; measured from the surface of the rigid floor). For details see Annex G-3 of the ETA.
- In case of penetration seals according to Annex D-8 to D-17 and Annex F-8 to F-17 of the ETA pipe fittings shall not be located within “Rockwool 800” along the required minimum insulation length according to Annex A-5, clause 2.1 of the ETA.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-2**

1.1 Pipe end configuration

> For metal pipes (excluding “Mapress C-Stahl PP-Kunststoffmantel” in shaft walls) classified with pipe end configuration U/C the pipe end configuration can be C/U, U/C and C/C.

> For metal pipes “Mapress C-Stahl PP-Kunststoffmantel” in shaft walls classified with pipe end configuration U/C the pipe end configuration can be U/C and C/C.

> For multi-layer composite pipes classified with pipe end configuration U/C the pipe end configuration can be U/C and C/C.

> For metal pipes in rigid floors with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” classified with pipe end configuration U/C the pipe end configuration of the metal pipes and the multi-layer composite pipes can only be U/C and C/C.

1.2 Orientation of the penetrating elements

> Metal pipes and multi-layer composite pipes have to be installed perpendicular to the surface of the separating element.

> In case of metal pipes in rigid floors with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” the branches have to be installed perpendicular to the surface of the penetrating element.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-3**

1.3 Service support constructions

> All metal pipes and multi-layer composite pipes have to be supported by service support constructions (e.g. pipe hangers) made of metal with a melting or decomposition point greater or equal than 1006 °C for EI 90, or 1049 °C for EI 120 (e.g. stainless steel or galvanized steel) according to the ETA-holder's installation instructions.

> In flexible walls, rigid walls and shaft walls the pipes have to be supported on both sides of the separating element.

> In rigid floors the pipes have to be supported at least on the top side of the separating element.

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" the branches have to be supported resp. fixed according to the technical literature of the manufacturer.

> The first support (service support construction) for metal pipes and multi-layer composite pipes in flexible walls, rigid walls and rigid floors has to be at maximum 600 mm (measured from the surface of the separating element).

> The first support (service support construction) for metal pipes and multi-layer composite pipes in shaft walls has to be at maximum 620 mm (measured from the surface of the separating element).

> All metal pipes and multi-layer composite pipes have to be fixed according to the ETA-holder's installation instructions to the service support construction.

2 Details for installation of "Brandschutzabschottung mit Streckenisolierung" (see Annex B-1 to M-9 of the ETA)

> "Brandschutzabschottung mit Streckenisolierung" will be formed by installing "Rockwool 800" centered in the opening of the separating element on the relevant pipe according to the ETA-holder's installation instructions whereas all butt joints have to be covered with self-adhesive aluminium tape with a nominal width of minimum 50 mm and a minimum overlapping of 25 mm on each side of the butt joint.

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" located directly above the floor, the branches have to be additionally insulated with "Rockwool 800" whereas all butt joints (including those of the branch itself) have to be covered with self-adhesive aluminium tape with a nominal width of minimum 50 mm and a minimum overlapping of 25 mm on each side of the butt joint.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-4**

2.1 Insulation length

> "Rockwool 800" has to be continuous along the required minimum insulation length (≥ 1000 mm for metal pipes with a diameter ≤ 54 mm; ≥ 2000 mm for metal pipes with a diameter > 54 mm; ≥ 500 mm for multi-layer composite pipes).

> If the thickness of the separating element is higher than the required minimum insulation length (≥ 1000 mm for metal pipes with a diameter ≤ 54 mm; ≥ 2000 mm for metal pipes with a diameter > 54 mm; ≥ 500 mm for multi-layer composite pipes), the length of "Rockwool 800" has to be increased so that "Rockwool 800" protrudes the separating element by ≥ 100 mm (measured from the surface of the separating element) on both sides of the separating element.

> For further details see technical literature of the manufacturer.

2.1.1 Symmetrical insulation

> For metal pipes with a diameter ≤ 54 mm the length of "Rockwool 800" has to be ≥ 500 mm (measured from the centre of the separating element) on both sides of the separating element.

> For metal pipes with a diameter > 54 mm the length of "Rockwool 800" has to be ≥ 1000 mm (measured from the centre of the separating element) on both sides of the separating element.

> For multi-layer composite pipes the length of "Rockwool 800" has to be ≥ 250 mm (measured from the centre of the separating element) on both sides of the separating element.

> For metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" the length of the additional insulation "Rockwool 800" of the branch has to be ≥ 340 mm (measured from the surface of "Rockwool 800", installed on the metal pipe).

2.1.2 Asymmetrical insulation

> For multi-layer composite pipes the length of "Rockwool 800" has to be ≥ 500 mm (measured from the opposite surface of the separating element) on one side of the separating element.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-5**

2.2 Insulation thickness

> "Rockwool 800" with the smallest inner diameter corresponding to the relevant outer diameter of the pipe to be sealed off has to be used, so that "Rockwool 800" fits tightly to the pipe to be sealed off (for details see Annex B-1 of the ETA).

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" located directly above the floor, the additional insulation "Rockwool 800" of the branch with the smallest inner diameter corresponding to the relevant outer diameter of the pipe as well as the relevant T-piece, pipe cross, reduction (if needed) and transition adapter (according to Annex A-1, clause 1 of the ETA) to be sealed off has to be used (for details see Annex B-1 of the ETA). Therefore in some cases it will be necessary to connect several pieces of "Rockwool 800" next to each other, to ensure that the additional insulation "Rockwool 800" fits tightly to the relevant T-piece, the pipe cross, the reduction (if needed), the transition adapter (according to Annex A-1, clause 1 of the ETA) and the pipe (for details see Annex G-1 to G-3 of the ETA).

> The thickness of "Rockwool 800" has to be – depending on the relevant pipe to be sealed off – 20 mm to 80 mm (for details see Annex D-1 to D-17 and Annex F-1 to F-17 and Annex H-1 to M-9 of the ETA).

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" located directly above the floor, the thickness of the additional insulation "Rockwool 800" of the branch has to be 20 mm (for details see Annex H-1 to M-9 of the ETA).

> For local-sustained (LS) insulations the thickness of "Rockwool 800" shall not be increased.

> For continued-sustained (CS) insulations the thickness of "Rockwool 800" can be increased.

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" located directly above the floor, the thickness of the additional insulation "Rockwool 800" of the branch shall not be increased.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-6**

2.3 Fixing

2.3.1 Symmetrical insulation

> "Rockwool 800" has to be fixed along the required minimum insulation length by winding wire (steel wire with diameter ≥ 0,6 mm; minimum 10 windings per meter; first winding at a distance of 50 mm – measured from the surface of the separating element; last winding at a distance of 50 mm – measured from the edge of the insulation; windings in between shall be equally distributed) on both sides of the separating element in place. Butt joints shall additionally be fixed with winding wire (steel wire with diameter ≥ 0,6 mm) in a distance of 50 mm on each side of the butt joint.

> In case of metal pipes in rigid floors with branches made of "Geberit Mepla Systemrohr", "Geberit Mepla Systemrohr Mepla Therm", "Geberit PushFit Systemrohr ML", "Geberit Systemrohr ML", "Geberit Systemrohr ML, Therm" or "Geberit PushFit Systemrohr PB" located directly above the floor, the additional insulation "Rockwool 800" of the branch has to be fixed along the required minimum insulation length (≥ 340 mm) by winding wire (steel wire with diameter ≥ 0,6 mm; minimum 3 windings; first winding at a distance of 50 mm – measured from the surface of the separating element; last winding at a distance of 50 mm – measured from the edge of the insulation; windings in between shall be equally distributed) in place. "Rockwool 800" attached to the required minimum insulation length has also to be fixed by winding wire (steel wire with diameter ≥ 0,6 mm; minimum 10 windings per meter; first winding at a distance of 50 mm – measured from the surface of the separating element; last winding at a distance of 50 mm – measured from the edge of the insulation; windings in between shall be equally distributed) on both sides of the separating element in place. Butt joints shall additionally be fixed with winding wire (steel wire with diameter ≥ 0,6 mm) in a distance of 50 mm on each side of the butt joint.

2.3.2 Asymmetrical insulation

> "Rockwool 800" has to be fixed along the required minimum insulation length by winding wire (steel wire with diameter ≥ 0,6 mm; minimum 10 windings per meter; first winding at a distance of 50 mm – measured from the surface of the separating element; last winding at a distance of 50 mm – measured from the edge of the insulation; windings in between shall be equally distributed) on one side of the separating element in place. Butt joints shall additionally be fixed with winding wire (steel wire with diameter ≥ 0,6 mm) in a distance of 50 mm on each side of the butt joint.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-7**

2.4 Annular gap

> The annular gap (width 10 mm to 30 mm, measured from the surface of insulation) between “Rockwool 800” (installed on metal pipes and multi-layer composite pipes) and the flexible wall (vertical separating element) has to be completely (over the entire thickness of the separating element) filled with gypsum joint filler (“Gap filler” according to clause 1 of the ETA) on both sides of the separating element.

> The annular gap (width 10 mm to 30 mm, measured from the surface of insulation) between “Rockwool 800” (installed on metal pipes and multi-layer composite pipes) and the rigid wall or rigid floor (vertical separating element or horizontal separating element) has to be completely (over the entire thickness of the separating element) filled with gypsum joint filler, cement or mortar (“Gap filler” according to clause 1 of the ETA) on both sides of the separating element.

> The annular gap (width 10 mm to 25 mm, measured from the surface of insulation) between “Rockwool 800” (installed on metal pipes and multi-layer composite pipes) and the shaft wall (vertical separating element) has to be completely (over the entire thickness of the separating element) filled with gypsum joint filler (“Gap filler” according to clause 1 of the ETA) on both sides of the separating element.

> In case of metal pipes in rigid floors with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” the annular gap (width 10 mm to 150 mm, measured from the surface of insulation) between “Rockwool 800” (installed on metal pipes) and the rigid floor (horizontal separating element) has to be completely (over the entire thickness of the separating element) filled with “Gap filler for metal pipes in rigid floors with branches” according to clause 1 of the ETA on both sides of the separating element.

> In case of non-insulated flexible walls it has to be ensured that the cavity of the flexible wall around the annular gap is filled with stone wool with classification A2-s1,d0 or A1 according to EN 13501-1.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-8**

3 Minimum working clearances

3.1 Symmetrical insulation

> The minimum clearance between two metal pipes according to clause 2.1 of the ETA with a diameter ≤ 54 mm (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two metal pipes according to clause 2.1 of the ETA with a diameter > 54 mm (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors has to be 100 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes “Geberit Mepla Systemrohr” and/or “Geberit Mepla Systemrohr Mepla Therm” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes “Geberit PushFit Systemrohr ML” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes “Geberit Systemrohr ML” and/or “Geberit Systemrohr ML, Therm” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes according to clause 2.1 of the ETA (linear arrangement, no clusters) in shaft walls has to be 250 mm (measured from the surface of “Rockwool 800”).

> In case of metal pipes in rigid floors with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm”, ”Geberit PushFit Systemrohr ML”, “Geberit Systemrohr ML”, “Geberit Systemrohr ML, Therm” or “Geberit PushFit Systemrohr PB” the minimum clearance between two metal pipes according to clause 2.1 of the ETA with a diameter ≤ 54 mm (linear arrangement, no clusters) in rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> In case of metal pipes in rigid floors with branches made of “Geberit Mepla Systemrohr”, “Geberit Mepla Systemrohr Mepla Therm” or “Geberit PushFit Systemrohr PB” the minimum clearance between two metal pipes according to clause 2.1 of the ETA with a diameter > 54 mm (linear arrangement, no clusters) in rigid floors has to be 100 mm (measured from the surface of “Rockwool 800”).

> The minimum distance to other installations or penetration seals (except for penetration seals “Rohrschott90 Plus EN” according to ETA-16/0001, if smaller minimum distances are given in the ETA-16/0001) in flexible walls, rigid walls, rigid floors or shaft walls has to be 100 mm.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-9**

3.2 Asymmetrical insulation

> The minimum clearance between two pipes “Geberit Mepla Systemrohr” and/or “Geberit Mepla Systemrohr Mepla Therm” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors has to be 100 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes “Geberit PushFit Systemrohr ML” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum clearance between two pipes “Geberit Systemrohr ML” and/or “Geberit Systemrohr ML, Therm” according to clause 2.1 of the ETA (linear arrangement, no clusters) in flexible walls, rigid walls and rigid floors can be 0 mm (measured from the surface of “Rockwool 800”).

> The minimum distance to other installations or penetration seals in flexible walls, rigid walls or rigid floors has to be 100 mm.

4 Transport and storage

> The indications of the manufacturer regarding transport and storage (minimum and maximum storing temperature, maximum duration of storage) have to be followed.

5 Use, maintenance and repair

> The fire resistance of the penetration seal shall not be negatively affected by future changes to buildings or building elements.

> The assessment of the fitness for use is based on the assumption that necessary maintenance and repair if required is carried out in accordance with the manufacturer’s instructions during the assumed intended working life.

Brandschutzabschottung mit Streckenisolierung **- Details for installation -**	**ANNEX A-10**

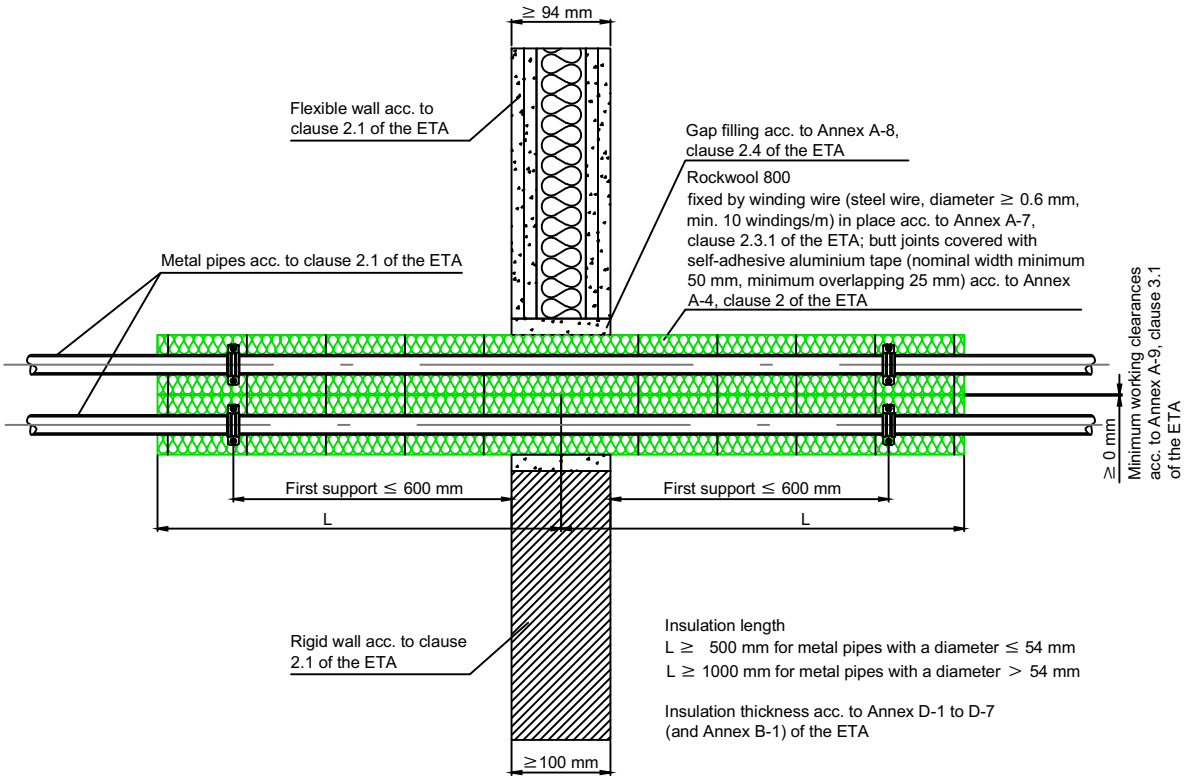
Rockwool 800					
Inner diameter (mm)	**Insulation thickness** (mm)	**Inner diameter** (mm)	**Insulation thickness** (mm)	**Inner diameter** (mm)	**Insulation thickness** (mm)
15	20	48	20	70	20
15	30	48	30	70	30
15	40	48	40	70	40
18	20	48	50	70	50
18	30	48	60	70	60
18	40	48	70	70	70
18	50	48	80	70	80
18	60	48	90	70	90
22	20	48	100	70	100
22	30	48	120	70	120
22	40	54	20	76	20
22	50	54	30	76	30
22	60	54	40	76	40
22	70	54	50	76	50
22	80	54	60	76	60
28	20	54	70	76	70
28	30	54	80	76	80
28	40	54	90	76	90
28	50	54	100	76	100
28	60	54	120	76	120
28	70	57	20	89	20
28	80	57	30	89	30
28	90	57	40	89	40
28	100	57	50	89	50
35	20	57	60	89	60
35	30	57	70	89	70
35	40	57	80	89	80
35	50	57	90	89	90
35	60	57	100	89	100
35	70	57	120	89	110
35	80	64	20	89	120
35	90	64	30	108	20
35	100	64	40	108	30
42	20	64	50	108	40
42	30	64	60	108	50
42	40	64	70	108	60
42	50	64	80	108	70
42	60	64	90	108	80
42	70	64	100	108	90
42	80	64	120	108	100
42	90	---	---	108	120
42	100	---	---	---	---

Brandschutzabschottung mit Streckenisolierung

- Description of “Rockwool 800” -

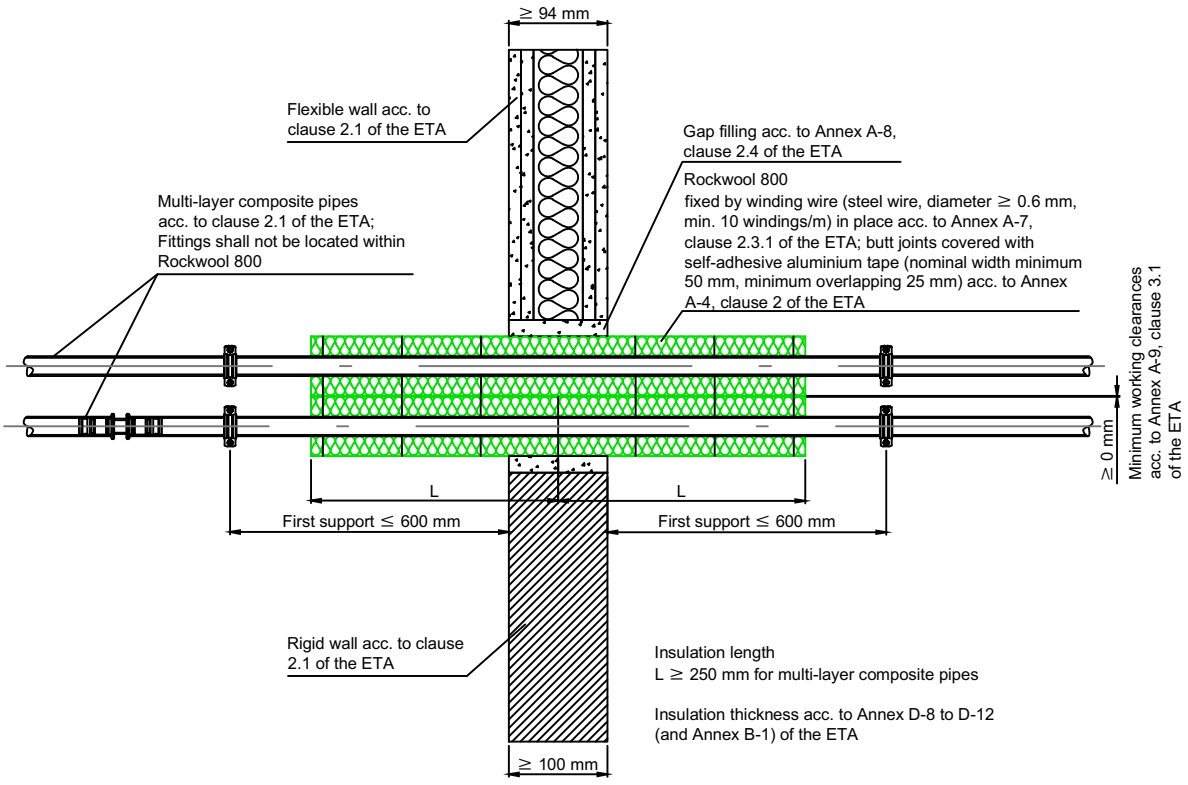
ANNEX B-1

Brandschutzabschottung mit Streckenisolierung in flexible walls and rigid walls according to clause 2.1 of the ETA – penetrated by metal pipes according to clause 2.1 of the ETA – symmetrical insulation – Installation drawing – sectional view



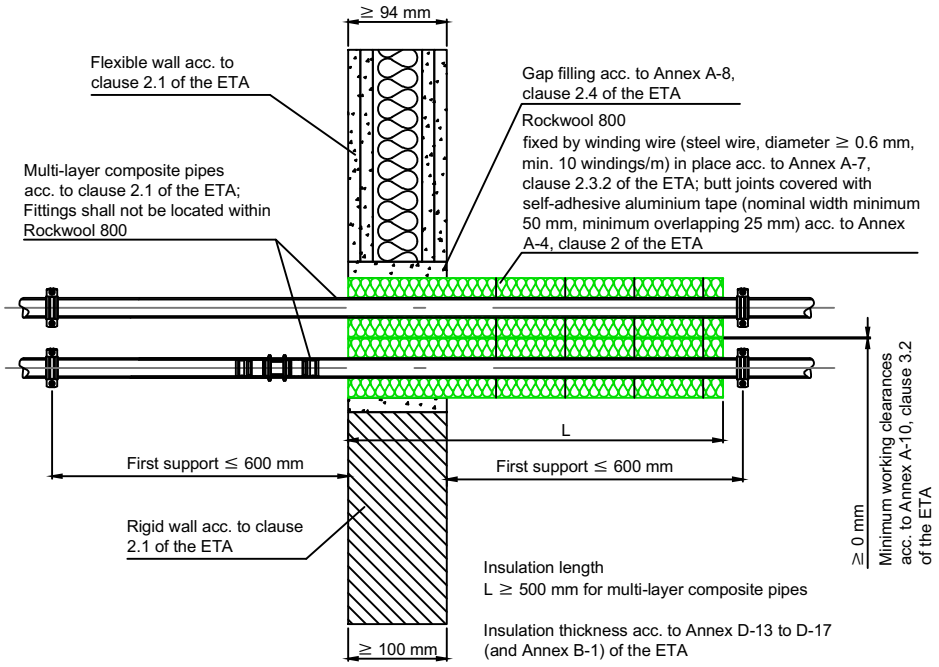
Brandschutzabschottung mit Streckenisolierung **- Installation in flexible wall and rigid wall -**	**ANNEX C-1**

Brandschutzabschottung mit Streckenisolierung in flexible walls and rigid walls according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – symmetrical insulation – Installation drawing – sectional view



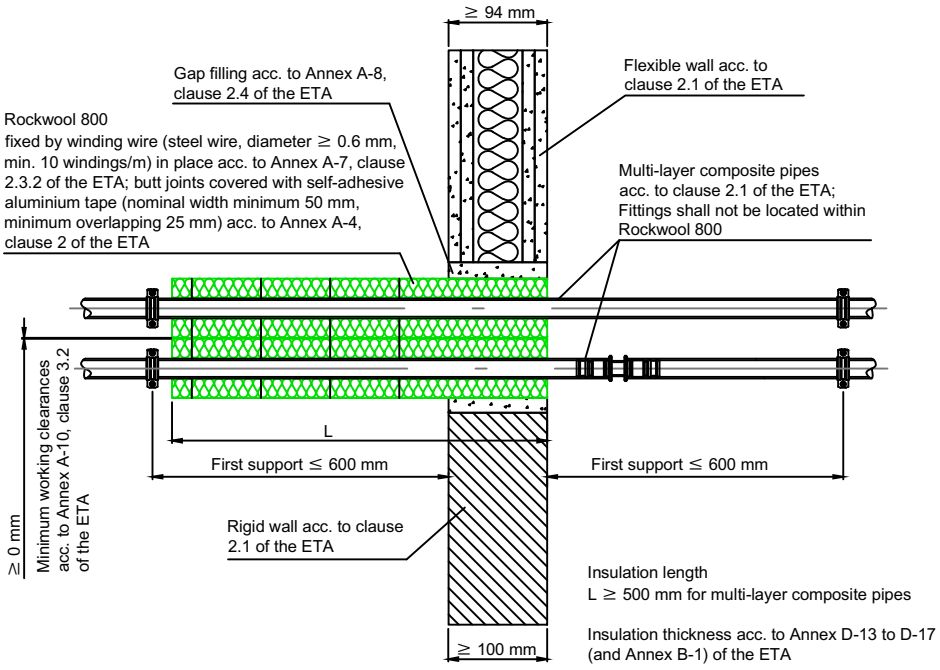
Brandschutzabschottung mit Streckenisolierung **- Installation in flexible wall and rigid wall -**	**ANNEX C-2**

Brandschutzabschottung mit Streckenisolierung in flexible walls and rigid walls according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – asymmetrical insulation – Installation drawing – sectional view



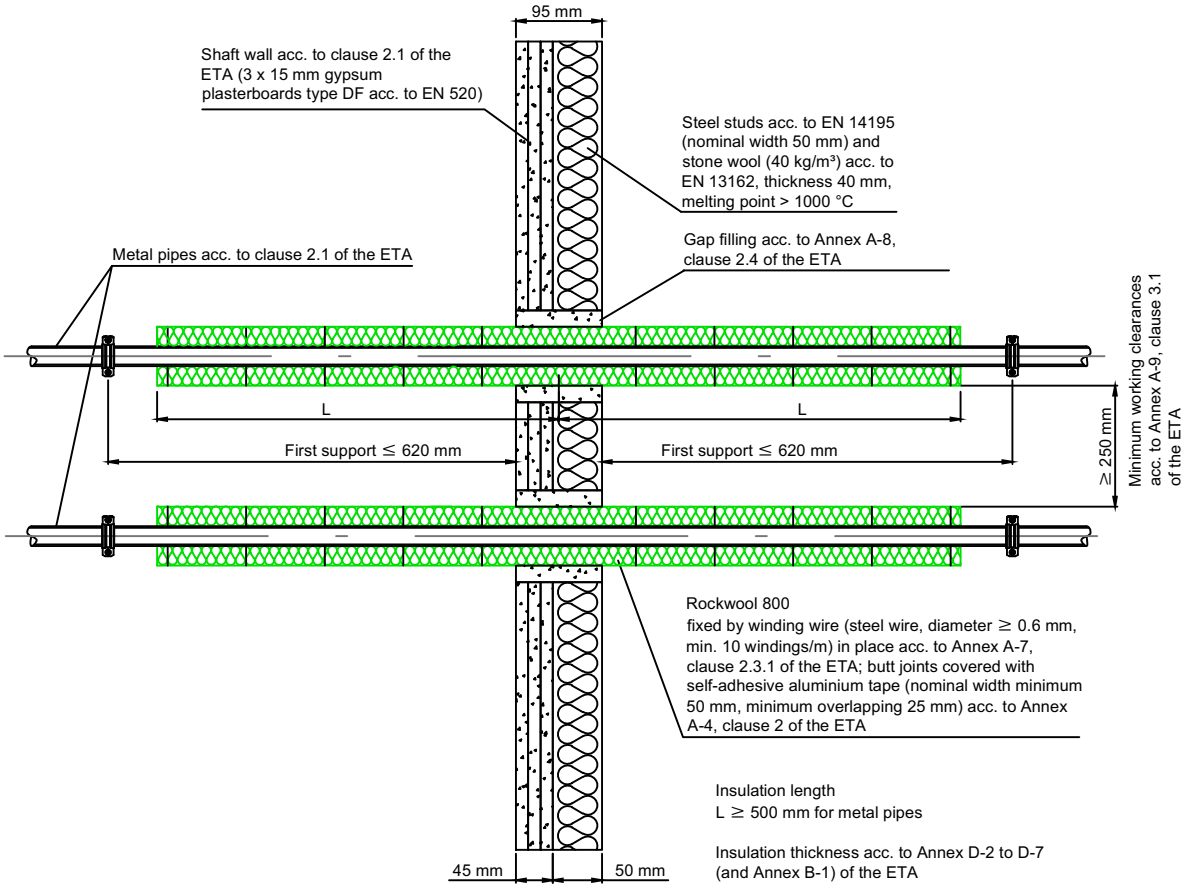
Brandschutzabschottung mit Streckenisolierung **- Installation in flexible wall and rigid wall -**	**ANNEX C-3.1**

Brandschutzabschottung mit Streckenisolierung in flexible walls and rigid walls according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – asymmetrical insulation – Installation drawing – sectional view



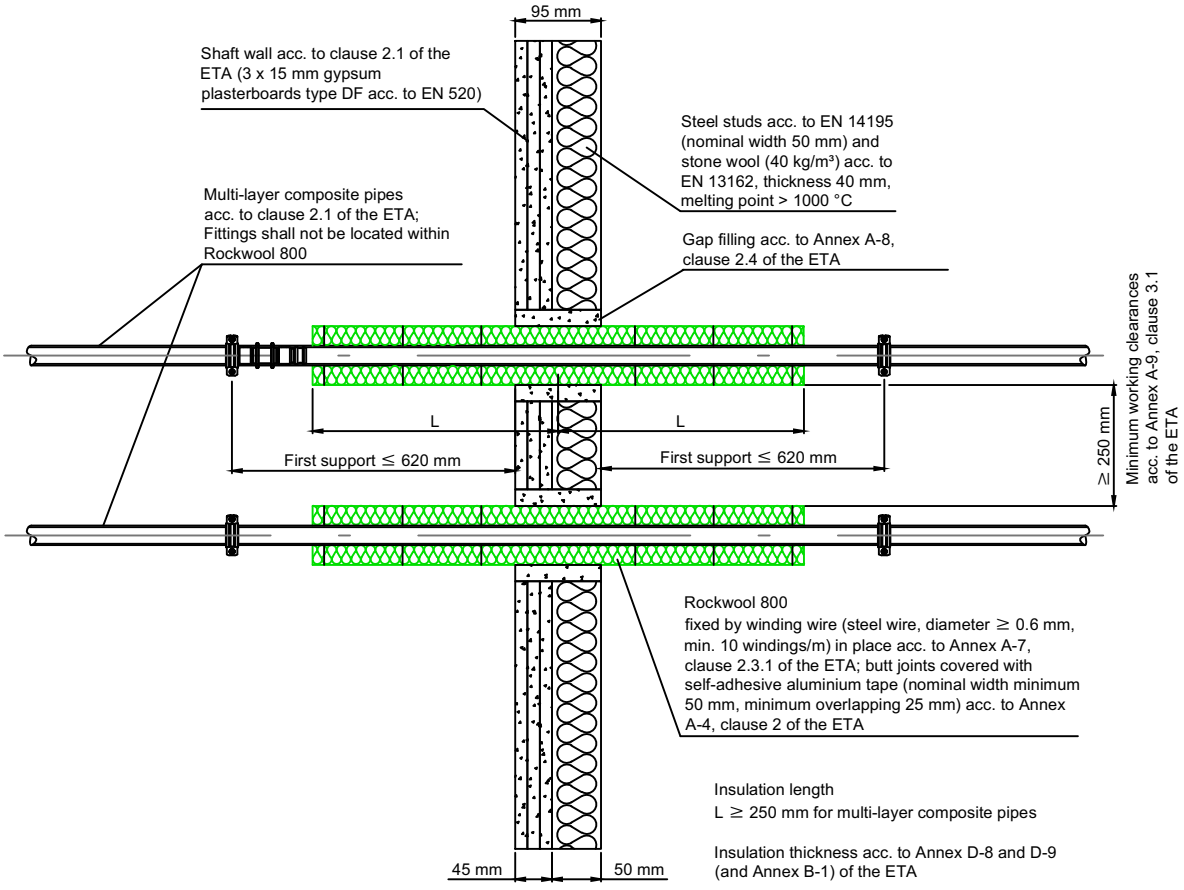
Brandschutzabschottung mit Streckenisolierung **- Installation in flexible wall and rigid wall -**	**ANNEX C-3.2**

Brandschutzabschottung mit Streckenisolierung in shaft walls according to clause 2.1 of the ETA – penetrated by metal pipes according to clause 2.1 of the ETA – symmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung - Installation in shaft wall -	ANNEX C-4

Brandschutzabschottung mit Streckenisolierung in shaft walls according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – symmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung **- Installation in shaft wall -**	**ANNEX C-5**

Copper pipes acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0 to 14,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0 to 14,2	20 mm	≥ 1000 mm	
18,0	1,0 to 14,2	20 mm	≥ 1000 mm	
22,0	1,2 to 14,2	20 mm	≥ 1000 mm	
28,0	1,2 to 14,2	20 mm	≥ 1000 mm	
35,0	1,5 to 14,2	20 mm	≥ 1000 mm	
42,0	1,5 to 14,2	30 mm	≥ 1000 mm	
54,0	1,5 to 14,2	30 mm	≥ 1000 mm	
76,1	2,0 to 14,2	30 mm	≥ 2000 mm	
88,9	2,0 to 14,2	30 mm	≥ 2000 mm	
108,0	2,5 to 14,2	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-1

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-2

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0	20 mm	≥ 1000 mm	
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-3

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0	20 mm	≥ 1000 mm	
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-4

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,2	20 mm	≥ 1000 mm	
18,0	1,2	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
66,7	1,5	30 mm	≥ 2000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,2	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-5

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,5	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,5	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,5	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,5	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-6

Mapress C-Stahl PP-Kunststoffmantel acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter*	Wall thickness	Thickness	Length	
12,0	1,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,2	20 mm	≥ 1000 mm	
18,0	1,2	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

* wall thickness of additional PP-coating 0,9 mm

Mapress C-Stahl PP-Kunststoffmantel acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter*	Wall thickness	Thickness	Length	
22,0	1,5	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

* wall thickness of additional PP-coating 0,9 mm

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-7

Geberit Mepla Systemrohr acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm to 80 mm	≥ 500 mm	
26,0	3,0	20 mm to 80 mm	≥ 500 mm	
32,0	3,0	20 mm to 80 mm	≥ 500 mm	
40,0	3,5	20 mm to 80 mm	≥ 500 mm	
50,0	4,0	20 mm to 80 mm	≥ 500 mm	
63,0	4,5	30 mm to 80 mm	≥ 500 mm	
75,0	4,7	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Geberit Mepla Systemrohr acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
20,0	2,5	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
26,0	3,0	20 mm	≥ 500 mm	
32,0	3,0	20 mm	≥ 500 mm	
40,0	3,5	20 mm	≥ 500 mm	
50,0	4,0	30 mm	≥ 500 mm	

* valid for pipes with outer diameter 20 mm and 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 50 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-8

Geberit Mepla Systemrohr Mepla Therm acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm to 80 mm	≥ 500 mm	
26,0	3,0	20 mm to 80 mm	≥ 500 mm	
32,0	3,0	20 mm to 80 mm	≥ 500 mm	
40,0	3,5	20 mm to 80 mm	≥ 500 mm	
50,0	4,0	20 mm to 80 mm	≥ 500 mm	
63,0	4,5	30 mm to 80 mm	≥ 500 mm	
75,0	4,7	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Geberit Mepla Systemrohr Mepla Therm acc. to cl. 2.1 of the ETA – in shaft walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
20,0	2,5	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
26,0	3,0	20 mm	≥ 500 mm	
32,0	3,0	20 mm	≥ 500 mm	
40,0	3,5	20 mm	≥ 500 mm	
50,0	4,0	30 mm	≥ 500 mm	

* valid for pipes with outer diameter 20 mm and 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 50 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-9

Geberit PushFit Systemrohr ML acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-10

Geberit Systemrohr ML acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	
32,0	2,8	20 mm to 80 mm	≥ 500 mm	
40,0	3,0	20 mm to 80 mm	≥ 500 mm	
50,0	3,8	20 mm to 80 mm	≥ 500 mm	
63,0	4,0	20 mm to 80 mm	≥ 500 mm	
75,0	4,6	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-11

Geberit Systemrohr ML, Therm acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	
32,0	2,8	20 mm to 80 mm	≥ 500 mm	
40,0	3,0	20 mm to 80 mm	≥ 500 mm	
50,0	3,8	20 mm to 80 mm	≥ 500 mm	
63,0	4,0	20 mm to 80 mm	≥ 500 mm	
75,0	4,6	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-12

Geberit Mepla Systemrohr acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm	≥ 500 mm	
26,0	3,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 26 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-13

Geberit Mepla Systemrohr Mepla Therm acc. to cl. 2.1 of the ETA – in flexible walls and rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm	≥ 500 mm	
26,0	3,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 26 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-14

Geberit PushFit Systemrohr ML acc. to cl. 2.1 of the ETA – in flexible walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm and 20 mm in form of bars (rigid)

Geberit PushFit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-15

Geberit Systemrohr ML acc. to cl. 2.1 of the ETA – in flexible walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm and 20 mm in form of bars (rigid)

Geberit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX D-16

Geberit Systemrohr ML, Therm acc. to cl. 2.1 of the ETA – in flexible walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm and 20 mm in form of bars (rigid)

Geberit Systemrohr ML, Therm acc. to cl. 2.1 of the ETA – in rigid walls acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

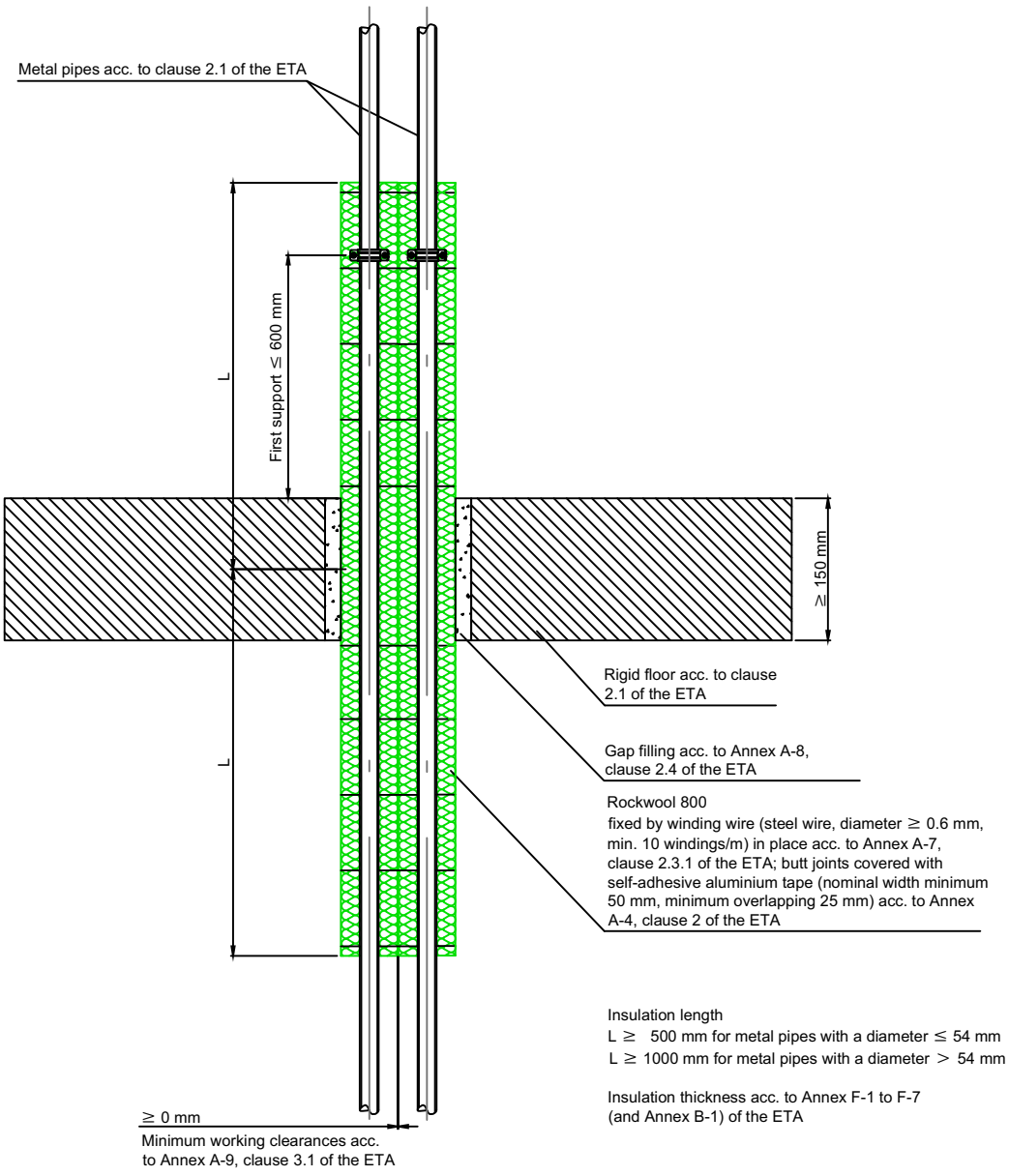
* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

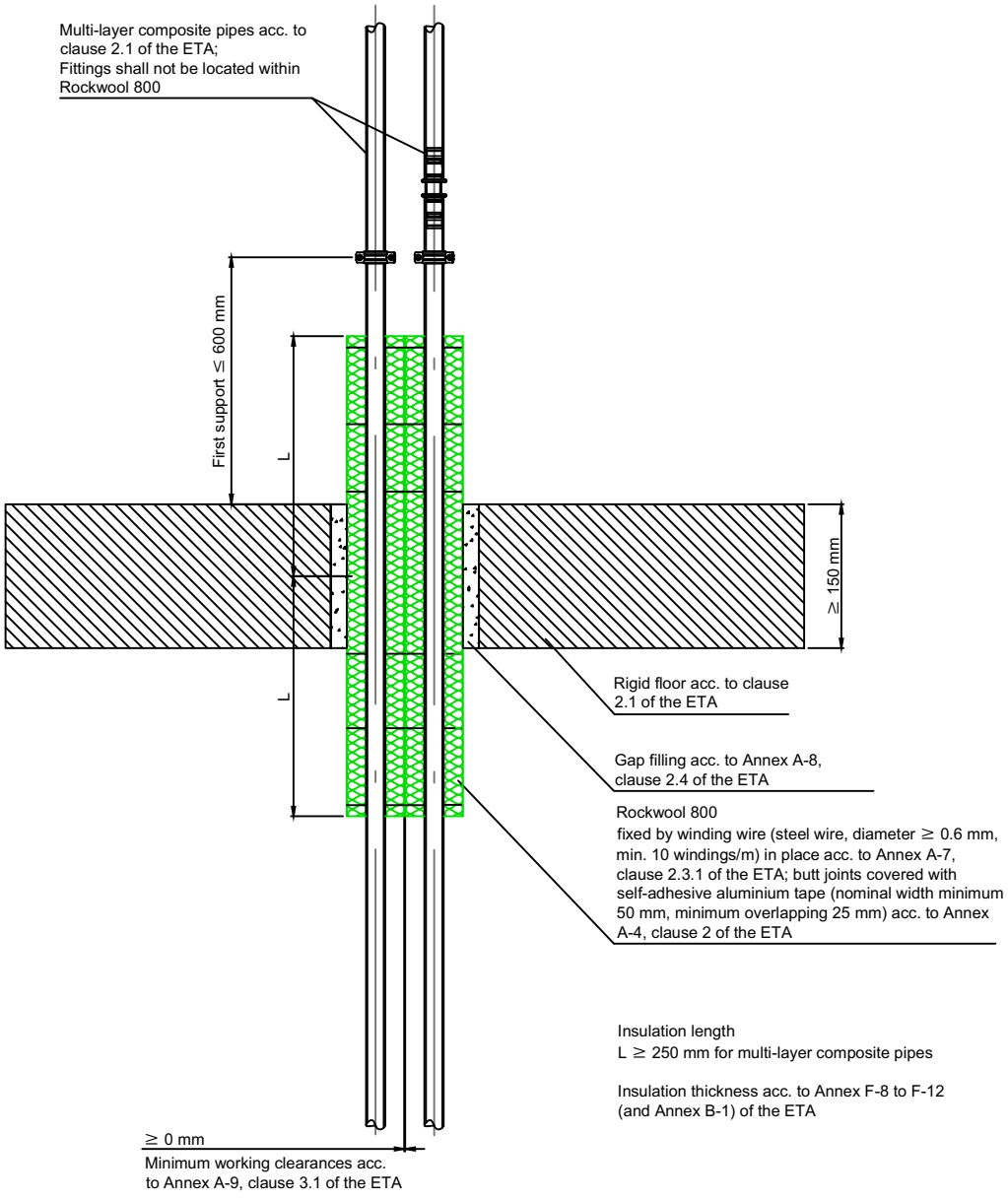
ANNEX D-17

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by metal pipes according to clause 2.1 of the ETA – symmetrical insulation – – Installation drawing – sectional view



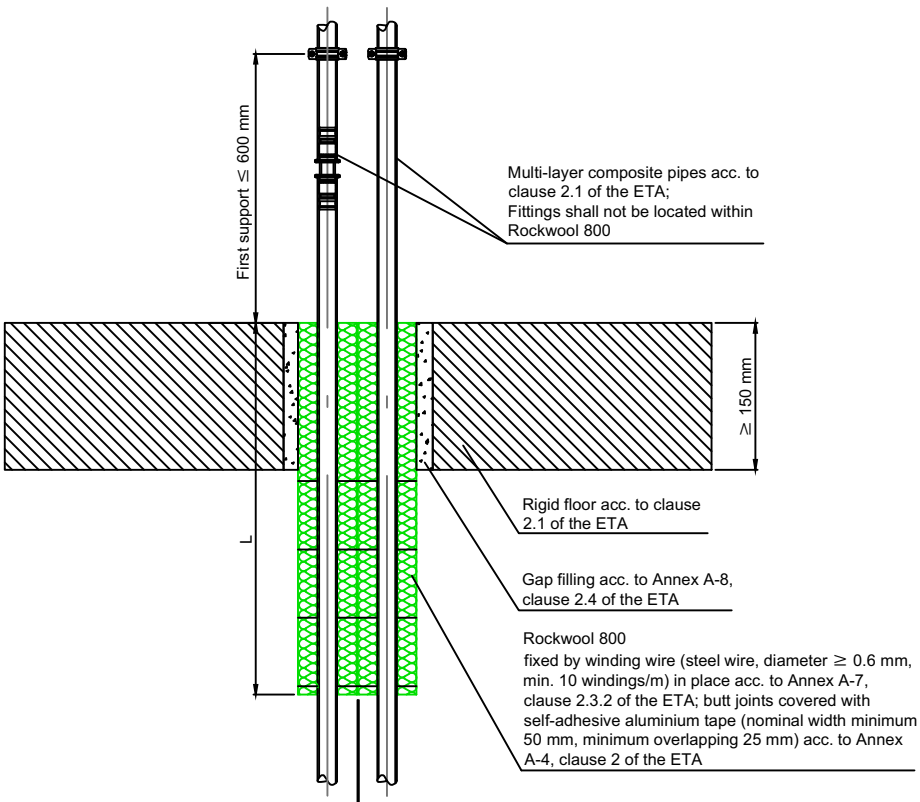
Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX E-1**

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – symmetrical insulation – Installation drawing – sectional view



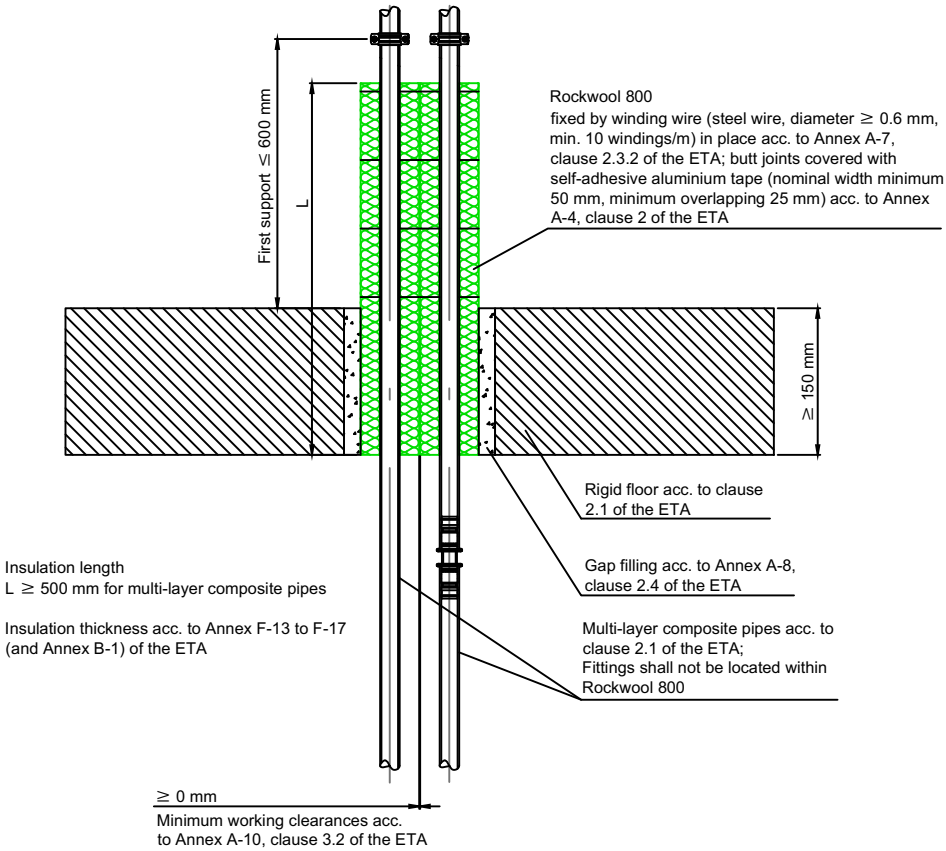
Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX E-2**

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – asymmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX E-3.1**

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by multi-layer composite pipes according to clause 2.1 of the ETA – asymmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX E-3.2**

Copper pipes acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0 to 14,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0 to 14,2	20 mm	≥ 1000 mm	
18,0	1,0 to 14,2	20 mm	≥ 1000 mm	
22,0	1,2 to 14,2	20 mm	≥ 1000 mm	
28,0	1,2 to 14,2	20 mm	≥ 1000 mm	
35,0	1,5 to 14,2	20 mm	≥ 1000 mm	
42,0	1,5 to 14,2	30 mm	≥ 1000 mm	
54,0	1,5 to 14,2	30 mm	≥ 1000 mm	
76,1	2,0 to 14,2	30 mm	≥ 2000 mm	
88,9	2,0 to 14,2	30 mm	≥ 2000 mm	
108,0	2,5 to 14,2	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-1

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-2

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0	20 mm	≥ 1000 mm	
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-3

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,0	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,0	20 mm	≥ 1000 mm	
18,0	1,0	20 mm	≥ 1000 mm	
22,0	1,2	20 mm	≥ 1000 mm	
28,0	1,2	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-4

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
12,0	1,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,2	20 mm	≥ 1000 mm	
18,0	1,2	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
66,7	1,5	30 mm	≥ 2000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-5

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
15,0	1,5	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
18,0	1,5	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	
76,1	2,0	30 mm	≥ 2000 mm	
88,9	2,0	30 mm	≥ 2000 mm	
108,0	2,0	30 mm	≥ 2000 mm	

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-6

Mapress C-Stahl PP-Kunststoffmantel acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter*	Wall thickness	Thickness	Length	
12,0	1,2	20 mm	≥ 1000 mm	EI 90-U/C E 90-U/C
15,0	1,2	20 mm	≥ 1000 mm	
18,0	1,2	20 mm	≥ 1000 mm	
22,0	1,5	20 mm	≥ 1000 mm	
28,0	1,5	20 mm	≥ 1000 mm	
35,0	1,5	20 mm	≥ 1000 mm	
42,0	1,5	30 mm	≥ 1000 mm	
54,0	1,5	30 mm	≥ 1000 mm	

* wall thickness of additional PP-coating 0,9 mm

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-7

Geberit Mepla Systemrohr acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm to 80 mm	≥ 500 mm	
26,0	3,0	20 mm to 80 mm	≥ 500 mm	
32,0	3,0	20 mm to 80 mm	≥ 500 mm	
40,0	3,5	20 mm to 80 mm	≥ 500 mm	
50,0	4,0	20 mm to 80 mm	≥ 500 mm	
63,0	4,5	30 mm to 80 mm	≥ 500 mm	
75,0	4,7	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-8

Geberit Mepla Systemrohr Mepla Therm acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm to 80 mm	≥ 500 mm	
26,0	3,0	20 mm to 80 mm	≥ 500 mm	
32,0	3,0	20 mm to 80 mm	≥ 500 mm	
40,0	3,5	20 mm to 80 mm	≥ 500 mm	
50,0	4,0	20 mm to 80 mm	≥ 500 mm	
63,0	4,5	30 mm to 80 mm	≥ 500 mm	
75,0	4,7	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-9

Geberit PushFit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-10

Geberit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	
32,0	2,8	20 mm to 80 mm	≥ 500 mm	
40,0	3,0	20 mm to 80 mm	≥ 500 mm	
50,0	3,8	20 mm to 80 mm	≥ 500 mm	
63,0	4,0	20 mm to 80 mm	≥ 500 mm	
75,0	4,6	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-11

Geberit Systemrohr ML, Therm acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm to 80 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm to 80 mm	≥ 500 mm	
25,0	2,5	20 mm to 80 mm	≥ 500 mm	
32,0	2,8	20 mm to 80 mm	≥ 500 mm	
40,0	3,0	20 mm to 80 mm	≥ 500 mm	
50,0	3,8	20 mm to 80 mm	≥ 500 mm	
63,0	4,0	20 mm to 80 mm	≥ 500 mm	
75,0	4,6	30 mm to 80 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 75 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-12

Geberit Mepla Systemrohr acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm	≥ 500 mm	
26,0	3,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 26 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-13

Geberit Mepla Systemrohr Mepla Therm acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,25	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,5	20 mm	≥ 500 mm	
26,0	3,0	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 26 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 26 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-14

Geberit PushFit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-15

Geberit Systemrohr ML acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX F-16

Geberit Systemrohr ML, Therm acc. to cl. 2.1 of the ETA – in rigid floors acc. to cl. 2.1 of the ETA				
Pipe dimensions* (mm)		Asymmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)		Fire resistance classification
Outer diameter	Wall thickness	Thickness	Length	
16,0	2,0	20 mm	≥ 500 mm	EI 90-U/C E 90-U/C
20,0	2,0	20 mm	≥ 500 mm	
25,0	2,5	20 mm	≥ 500 mm	

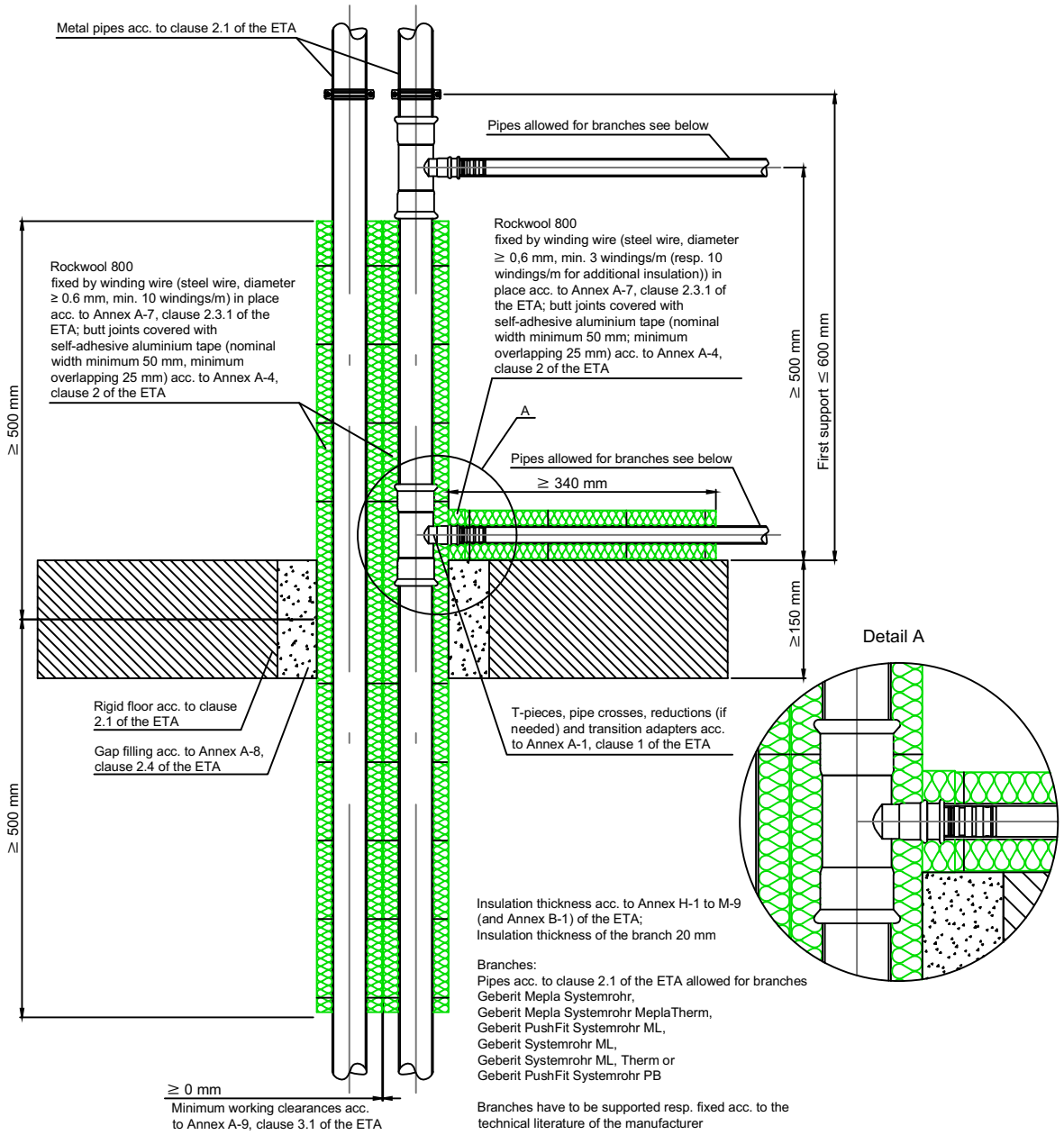
* valid for pipes with outer diameter 16 mm to 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm to 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

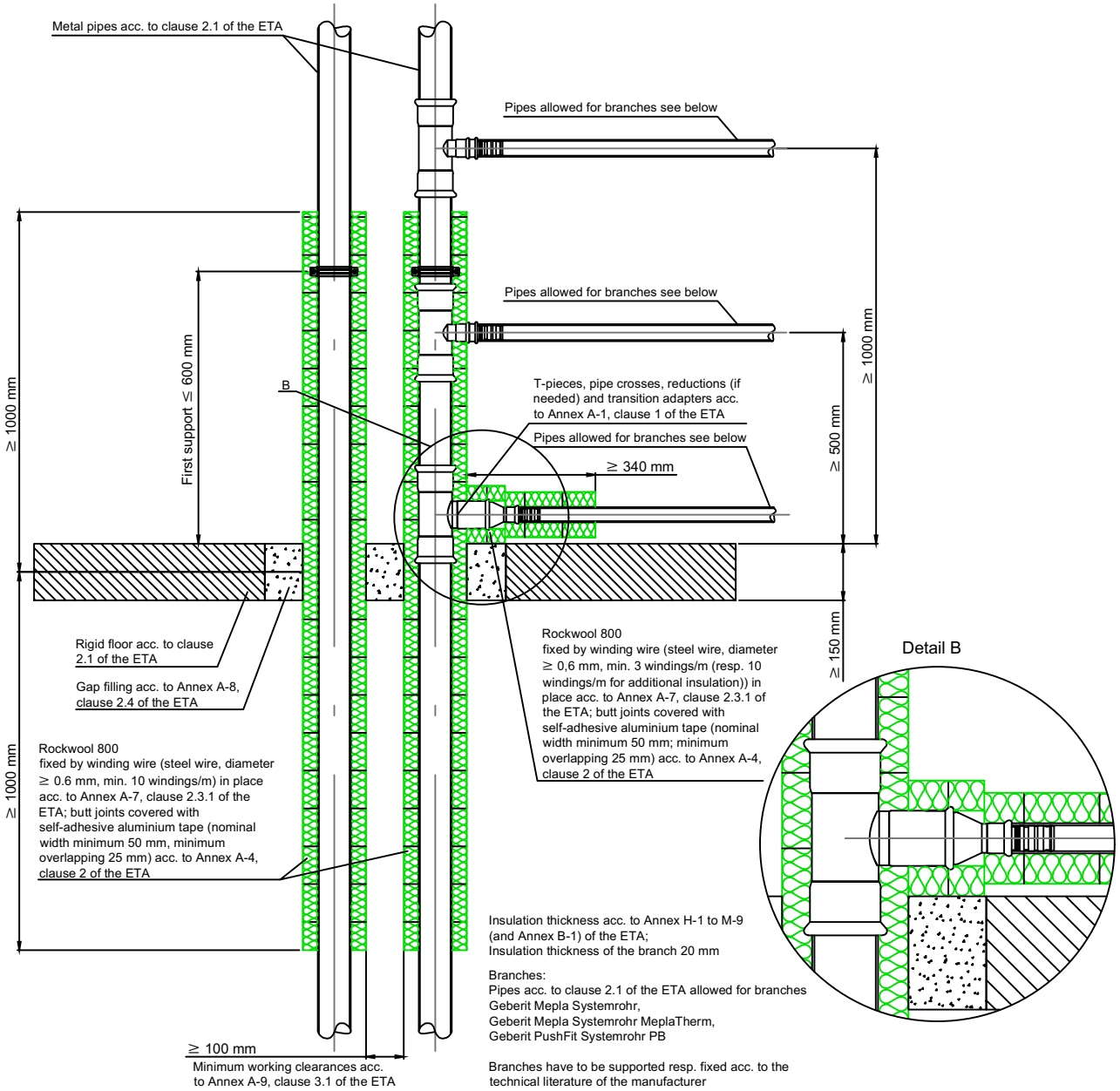
ANNEX F-17

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by metal pipes with a diameter ≤ 54 mm according to clause 2.1 of the ETA with branches made of Geberit Mepla Systemrohr, Geberit Mepla Systemrohr Mepla Therm, Geberit PushFit Systemrohr ML, Geberit Systemrohr ML, Geberit Systemrohr ML, Therm or Geberit PushFit Systemrohr PB – Location of the branch directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) – symmetrical insulation – Installation drawing – sectional view



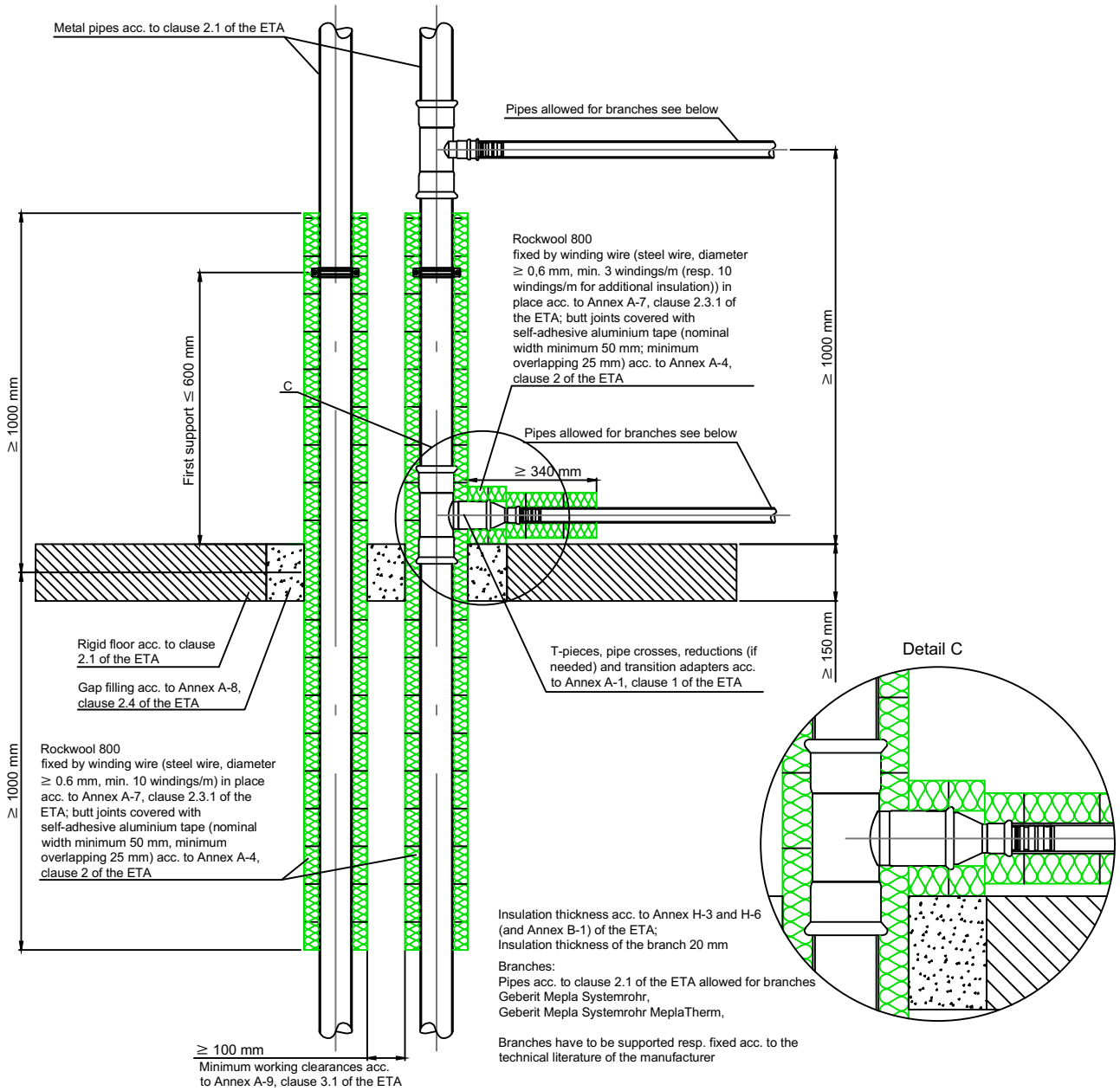
Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX G-1**

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by metal pipes with a diameter > 54 mm according to clause 2.1 of the ETA with branches made of Geberit Mepla Systemrohr, Geberit Mepla Systemrohr Mepla Therm or Geberit PushFit Systemrohr PB – Location of the branch directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated) – symmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX G-2**

Brandschutzabschottung mit Streckenisolierung in rigid floors according to clause 2.1 of the ETA – penetrated by copper pipes with a diameter > 54 mm according to clause 2.1 of the ETA with branches made of Geberit Mepla Systemrohr or Geberit Mepla Systemrohr Mepla Therm – Location of the branch directly above the floor (insulated) and ≥ 1000 mm above the floor (non-insulated) – symmetrical insulation – Installation drawing – sectional view



Brandschutzabschottung mit Streckenisolierung **- Installation in rigid floor-**	**ANNEX G-3**

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-1

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-2

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-3

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-4

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 90-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-5

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,5 mm to 14,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-6

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-7

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-8

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-9

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,2 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-10

Copper pipes acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the copper pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,5 mm to 14,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX H-11

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-1

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung **- Fire resistance classification -**	**ANNEX I-2**

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-3

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-4

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-5

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-6

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-7

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX I-8

Mapress Edelstahl 1.4301 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4301 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung **- Fire resistance classification -**	**ANNEX I-9**

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-1

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-2

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-3

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-4

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-5

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-6

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-7

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-8

Mapress Edelstahl 1.4401 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4401 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX J-9

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-1

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-2

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-3

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-4

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-5

Mapress Edelstahl 1.4521 acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress Edelstahl 1.4521 pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,2 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX K-6

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-1

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-2

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-3

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-4

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-5

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-6

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-7

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-8

Mapress C-Stahl (außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX L-9

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (inne und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-1

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-2

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-3

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Mepla Systemrohr Mepla Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Mepla Systemrohr Mepla Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 16 mm Wall thickness 2,25 mm Outer diameter 20 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 3,0 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 16 mm and 20 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 16 mm, 20 mm and 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-4

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm and 25 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-5

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-6

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit Systemrohr ML, Therm – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit Systemrohr ML, Therm* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm Outer diameter 32 mm Wall thickness 2,8 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm to 32 mm in form of coils (flexible / pliable)
valid for pipes with outer diameter 20 mm to 32 mm in form of bars (rigid)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-7

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 28 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 35 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 42 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 20 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 54 mm Wall thickness 1,5 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 1000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-8

Mapress C-Stahl (innen und außen verzinkt) acc. to cl. 2.1 of the ETA with branches made of Geberit PushFit Systemrohr PB – in rigid floors acc. to cl. 2.1 of the ETA		
Pipe dimensions of the Mapress C-Stahl (innen und außen verzinkt) pipe and dimensions of the symmetrical insulation Rockwool 800 (local-sustained LS or continued-sustained CS)	**Location of the branch: Directly above the floor (insulated) and ≥ 500 mm above the floor (non-insulated) and ≥ 1000 mm above the floor (non-insulated)** **Pipe dimensions of the branch made of Geberit PushFit Systemrohr PB* and dimensions of the additional insulation Rockwool 800**	**Fire resistance classification**
Outer diameter 76,1 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 88,9 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	
Outer diameter 108 mm Wall thickness 2,0 mm	Outer diameter 20 mm Wall thickness 2,0 mm Outer diameter 25 mm Wall thickness 2,5 mm	EI 120-U/C E 120-U/C
Thickness 30 mm Length ≥ 2000 mm	Thickness 20 mm Length ≥ 340 mm	

* valid for pipes with outer diameter 20 mm and 25 mm in form of coils (flexible / pliable)

Brandschutzabschottung mit Streckenisolierung

- Fire resistance classification -

ANNEX M-9