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European Technical Assessment

ETA-16/0312
of 18.12.2018

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

PROMASEAL®-S

Product family to which the construction product belongs

Fire Stopping and Fire Sealing Products:
Linear Joint and Gap seals

Manufacturer

Etex Building Performance NV
Bormstraat 24
2830 Tiselt
Belgium

Manufacturing plant

Production plant 12

This European Technical Assessment contains

18 pages including Annexes 1 to 4 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 350141-00-1106 „Fire stopping and fire sealing products – Linear joint and gap seals”

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Specific parts

1 Technical description of the product

PROMASEAL[®]-S is a 1-component silicone based firestop sealant supplied in cartridges, foil bags or can be supplied in buckets on customer demand and manufactured in various colours. It is used in with mineral wool or polystyrene as backfilling material.

PROMASEAL[®]-S – type of linear joint seal (acc. to EAD 350141-00-1106, cl. 1.1, table 1): Sealants.

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

2.1 Intended use

The intended use of PROMASEAL[®]-S firestop sealant is to reinstate the fire resistance performance of rigid wall and rigid floor constructions at linear joints or gaps within those constructions or where they are abutting another wall or floor/ceiling/roof construction.

In the following specified constructions PROMASEAL[®]-S is also used in conjunction with the backfilling material defined in Annex 2 and Annex 3.

Application of PROMASEAL[®]-S depends on the construction, the maximum gap and joint width can be found in Annex 3 of this ETA.

(1) The specific elements of construction that PROMASEAL[®]-S may be used to provide a penetration seal in, are as follows (details see Annex 3):

A) Rigid walls: The wall must have a minimum thickness of 100 mm and consist of concrete, aerated concrete, masonry or hollow blocks with a minimum density of 450 kg/m³.

B) Rigid floors: The floor must have a minimum thickness of 150 mm and consist of aerated concrete or concrete with a minimum density of 450 kg/m³.

The rigid wall and rigid floor construction shall be classified in accordance with EN 13501-2 for the required fire resistance period.

This ETA does not cover the use of this product as a linear joint or gap seal in sandwich panel constructions.

2.2 Use condition

„PROMASEAL[®]-S“ is intended for use in conditions at temperatures between -20°C and +70°C with exposure to weathering and can therefore – according to EAD 350141-00-1106 clause 2.1 and clause 2.2.12.1b – be categorized as Type X. Since the requirements for Type X are met, also the requirements for type Z₂, Z₁, Y₂ and Y₁ are fulfilled.

2.3 Working life

The provisions made in this European Technical Assessment are based on an assumed working life of „PROMASEAL®-S“ of minimum 25 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's assumed that

- > damages to the linear joint and gap seal are repaired accordingly

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 characteristics	Method of verification	Performance
BWR 1	None	Not relevant	
BWR 2	Reaction to fire	EN 13501-1:2007+A1:2009	See 3.1.1
	Resistance to fire	EN 13501-2:2016	See 3.1.2 and Annex 3
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 350141-00-1106, clause 2.1 and clause 2.2.12.1b	See 3.3.4
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

„PROMASEAL®-S“ was assessed according to EAD 350141-00-1106 clause 2.2.1 and classified according to EN 13501-1:2007+A1:2009.

Component	Class according to EN 13501-1
PROMASEAL®-S firestop sealant	B-s2, d0

3.1.2 Resistance to fire

„PROMASEAL®-S“ was tested according to EAD 350141-00-1106 clause 2.2.2 and EN 1366-4:2010 in conjunction with EN 1363-1:2013 installed within rigid walls and floors.

„PROMASEAL®-S“ has been classified in accordance with EN 13501-2:2016, the fire resistance classes and the direct field of application (acc. to EN 1366-4:2010) are stated in Annex 3.

Appropriate wall and floor constructions for penetration seals see clause 2.1.

Information on ancillary products, which were tested within the framework of this European Technical Assessment for evaluating resistance to fire is given in Annex 2.

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

„PROMASEAL®-S“ is intended for use in conditions exposed to weathering and can therefore – according to EAD 350141-00-1106, cl. 2.2.12.1.b and cl. 2.1 – be categorized as Type X. Since the requirements for Type X are met, also the requirements for type Z₂, Z₁, Y₂ and Y₁ 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/EC¹, amended by Decision 2001/596/EC² of the European Commission the system(s) 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)			

5 Technical details necessary for the implementation of the AVCP system, as provided for in 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 18.12.2018
by Österreichisches Institut für Bautechnik

Rainer Mikulits
Managing Director

¹ Official Journal of the European Communities no. L 178, 14.7.1999, p. 52

² Official Journal of the European Communities no. L 209, 2.8.2001, p. 33

ANNEX 1

Reference documents and list of abbreviations

1.1 Reference to standards mentioned in this ETA:

EN 13501-1:2007+A1:2009	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2:2016	Fire classification of construction products and building elements – Part 2: Classification using data from fire resistance tests, excluding ventilation
EN 1363-1:2012	Fire resistance tests – Part 1: General requirements
EN 1366-4:2010	Fire resistance tests for service installations – Part 4: Linear joint seals
EN 13162	Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification
EN 14303	Thermal insulation products for building equipment and industrial installations – Factory made mineral wool (MW) products – Specification

1.2 Other reference documents:

EAD 350141-00-1106	European Assessment Document for „Fire stopping and fire sealing products – Linear joint and gap seals”
EOTA TR 024 (2009)	Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products
Technical documentation	Technical Data Sheet and Manual of PROMASEAL®-S firestop sealant

ANNEX 2

DESCRIPTION OF PRODUCT(S) & PRODUCT LITERATURE

2.1 Product:

Product name	Description
PROMASEAL®-S	Firestop sealant

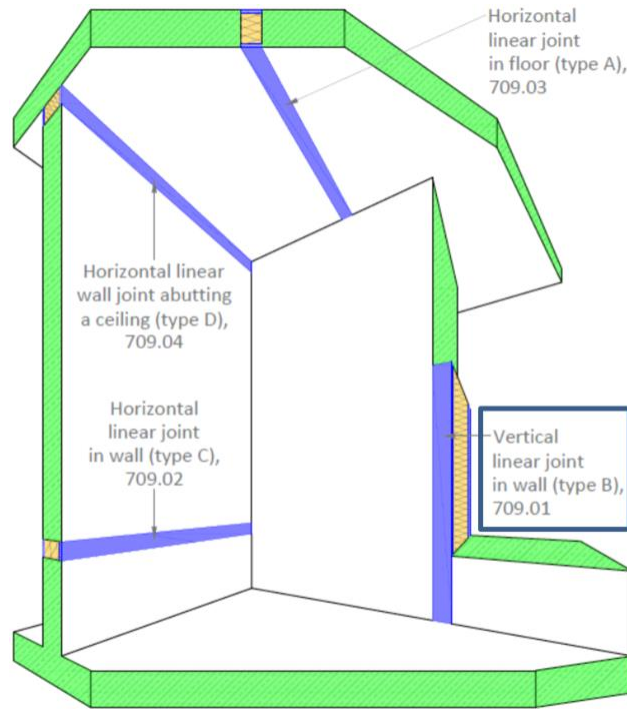
Suitable backfilling material – reaction to fire	
Non-combustible insulation (e.g. mineral wool, acc. to EN 13162 and EN 14303)	Class A1 (acc. to EN 13501-1)
Combustible insulation (e.g. polystyrene)	Minimum class E (acc. to EN 13501-1) or higher graded

2.2 Technical product literature:

- Product data sheet of PROMASEAL®-S
- Installation manual of PROMASEAL®-S
- Detailed sketches for PROMASEAL®-S

ANNEX 3 RESISTANCE TO FIRE CLASSIFICATION OF PROMASEAL®-S

3.1 Vertical linear joints/gap seal in/between rigid walls



Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 5 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall</p> <p><i>Classification:</i> EI 120 – V – M – 7,5 – F – W 5 to 100</p>	

Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the exposed side of the wall</p> <p><i>Classification:</i> E 120 EI 60 – V – M – 7,5 – F – W 5 to 100</p>	

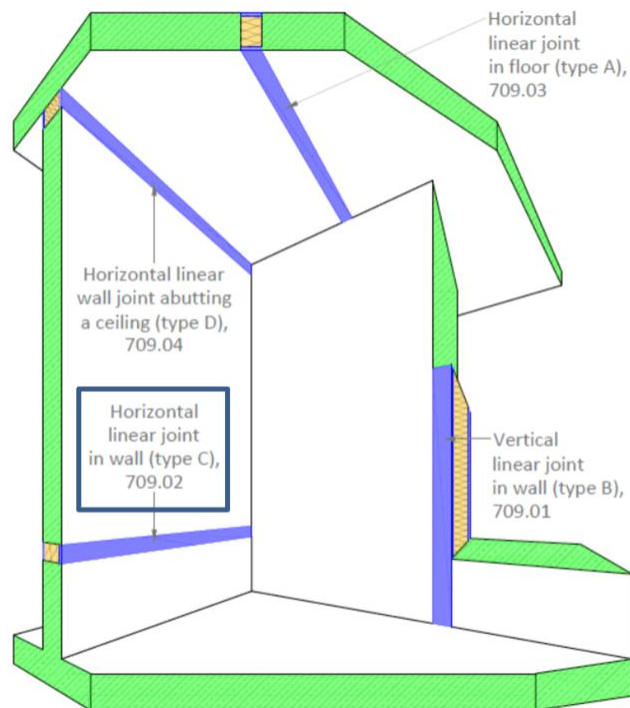
Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the unexposed side of the wall</p> <p><i>Classification:</i> EI 120 – V – M – 7,5 – F – W 5 to 100</p>	

Joint width b :	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall</p> <p><i>Classification:</i> E 120 EI 45 – V – M – 7,5 – F – W 5 to 50</p>	

Joint width b :	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 15 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the exposed side of the wall</p> <p><i>Classification:</i> EI 45 – V – M – 7,5 – F – W 5 to 50</p>	

Joint width b :	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.01 (Annex 4)
<p>$t_s \geq 15 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the unexposed side of the wall</p> <p><i>Classification:</i> E 90 EI 30 – V – M – 7,5 – F – W 5 to 50</p>	

3.2 Horizontal linear joints/gap seal in/between rigid walls



Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.02 (Annex 4)
$t_s \geq 5 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall	
<i>Classification:</i>	
EI 120 – T – M – 7,5 – F – W 5 to 100	

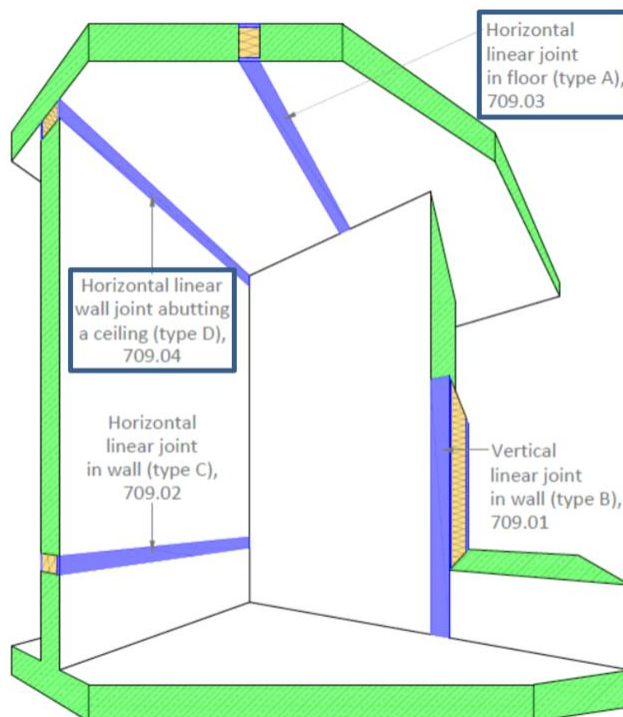
Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.02 (Annex 4)
$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the exposed side of the wall	
<i>Classification:</i>	
E 120 EI 60 – T – M – 7,5 – F – W 5 to 100	

Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.02 (Annex 4)
<p>$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the unexposed side of the wall</p> <p><i>Classification:</i> EI 120 – T – M – 7,5 – F – W 5 to 100</p>	

Joint width:	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.02 (Annex 4)
<p>$t_s \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall</p> <p><i>Classification:</i> E 120 EI 45 – T – M – 7,5 – F – W 5 to 50</p>	

Joint width b :	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.02 (Annex 4)
<p>$t_s \geq 15 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the unexposed side of the wall</p> <p><i>Classification:</i> EI 30 – T – M – 7,5 – F – W 5 to 50</p>	

3.3 Linear joints/gap seal in/between rigid floors or rigid wall abutting a rigid floor, ceiling or roof construction



Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Floor thickness t_A :	$\geq 150 \text{ mm}$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.03 / 709.04 (Annex 4)
<p>$t_s \geq 5 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the top side and on the bottom side of the ceiling $t_s \geq 5 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall</p>	
<p>Classification: EI 120 – H – M – 7,5 – F – W 5 to 100</p>	

Joint width b :	5 – 100 mm
Backfilling material:	Mineral wool, class A1 acc. to EN 13501-1, density $\geq 40 \text{ kg/m}^3$, 30 % compressed
Joint movement:	$\leq 7,5 \%$
Floor thickness t_A :	$\geq 150 \text{ mm}$
Wall thickness t_A :	$\geq 100 \text{ mm}$
Figure:	709.03 / 709.04 (Annex 4)
<p>$t_S \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the top side or on the bottom side of the ceiling</p> <p>$t_S \geq 5 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on one sides of the wall</p>	
<p><i>Classification:</i></p> <p>EI 120 – H – M – 7,5 – F – W 5 to 100</p>	

Joint width b :	5 – 50 mm
Backfilling material:	E.g. polystyrene, class E acc. to EN 13501-1, density $\geq 15 \text{ kg/m}^3$, (or higher graded e.g. glass wool, mineral wool...)
Joint movement:	$\leq 7,5 \%$
Floor thickness t_A :	$\geq 150 \text{ mm}$
Wall thickness t_A :	$\geq 150 \text{ mm}$
Figure:	709.03 / 709.04 (Annex 4)
<p>$t_S \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on the top side and on the bottom side of the ceiling</p> <p>$t_S \geq 10 \text{ mm PROMASEAL}^{\text{®}}\text{-S}$ on both sides of the wall</p>	
<p><i>Classification:</i></p> <p>EI 120 – H – M – 7,5 – F – W 5 to 50</p>	

ANNEX 4 INSTALLATION DRAWINGS

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Horizontal linear joint in floor (type A), 709.03

Horizontal linear wall joint abutting a ceiling (type D), 709.04

Horizontal linear joint in wall (type C), 709.02

Vertical linear joint in wall (type B), 709.01

<p>Promat Etex Building Performance GmbH St.-Peter-Strasse 25 Bau 39 4021 Linz Austria T +43 (0) 732 6912 3621 F +43 (0) 732 6912 3740 E technik.at@etexgroup.com www.promat.at <small>© Etex Building Performance GmbH</small></p>	<p>PROMASEAL®-S Firestop Silicone Overview of the constructions</p>			Modified by / on:			
				ERA / 2018/07/27			
				Drawn by:			
				P. Erasim			
			Drawing number:				
			709.001				
Scale:	none	Drawing format:	A4	Date:	2018/05/24	Department:	Technical appl.

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Joint seal options (type B)

with non-combustible backfilling and with combustible backfilling

Legend:

- A - Rigid wall construction
- b - Joint width
- HF - Backfilling (class of reaction to fire E or better)
- MW - Mineral wool (class of reaction to fire A1)
- S - Firestop Silicone PROMASEAL®-S
- t_A - Thickness of the rigid wall (t_A ≥ 100 mm)
- t_{HF} - Thickness of the combustible backfilling
- t_{MW} - Thickness of the non-combustible backfilling (mineral wool)
- t_S - Thickness of the Firestop Mastic PROMASEAL®-S

Etex Building Performance GmbH St.-Peter-Strasse 25 Bau 39 4021 Linz Austria T +43 (0) 732 6912 3621 F +43 (0) 732 6912 3740 E technik.at@etexgroup.com www.promat.at <small>© Etex Building Performance GmbH</small>	PROMASEAL®-S Firestop Silicone Linear joint seal Vertical linear joint in/between rigid wall constructions	Modified by / on: ERA / 2018/07/27
		Drawn by: P. Erasim
		Drawing number: 709.01
Scale: none	Drawing format: A4	Date: 2018/05/24
	Department: Technical appl.	

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Joint seal options (type C)

and with non-combustible backfilling

with combustible backfilling

and with combustible backfilling

Legend:

- A - Rigid wall construction
- b - Joint width
- HF - Backfilling (class of reaction to fire E or better)
- MW - Mineral wool (class of reaction to fire A1)
- S - Firestop Silicone PROMASEAL®-S
- t_A - Thickness of the rigid wall (t_A ≥ 100 mm)
- t_{HF} - Thickness of the combustible backfilling
- t_{MW} - Thickness of the non-combustible backfilling (mineral wool)
- t_S - Thickness of the Firestop Mastic PROMASEAL®-S

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	Scale: none Drawing format: A4 Date: 2018/05/24 Department: Technical appl.	Drawn by: P. Erasim
	Drawing number: 709.02	

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Joint seal options (type A) with non-combustible backfilling

and with combustible backfilling

Legend:

- A - Rigid floor construction
- b - Joint width
- HF - Backfilling (class of reaction to fire E or better)
- MW - Mineral wool (class of reaction to fire A1)
- S - Firestop Silicone PROMASEAL®-S
- t_A - Thickness of the rigid floor (t_A ≥ 150 mm)
- t_{HF} - Thickness of the combustible backfilling
- t_{MW} - Thickness of the non-combustible backfilling (mineral wool)
- t_S - Thickness of the Firestop Silicone PROMASEAL®-S

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	Scale: none Drawing format: A4 Date: 2018/05/24 Department: Technical appl.			Drawn by: P. Erasim
				Drawing number: 709.03

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Joint seal options (type D) with non-combustible backfilling

and with combustible backfilling

Legend:

- A₁ - Rigid wall construction
- A₂ - Rigid floor, ceiling or roof construction
- b - Joint width
- HF - Backfilling (class of reaction to fire E or better)
- MW - Mineral wool (class of reaction to fire A1)
- S - Firestop Silicone PROMASEAL®-S
- t_A - Thickness of the rigid wall (t_A ≥ 100 mm)
- t_{HF} - Thickness of the combustible backfilling
- t_{MW} - Thickness of the non-combustible backfilling (mineral wool)
- t_S - Thickness of the Firestop Silicone PROMASEAL®-S

 Etex Building Performance GmbH St.-Peter-Strasse 25 Bau 39 4021 Linz Austria T +43 (0) 732 6912 3621 F +43 (0) 732 6912 3740 E technik.at@etexgroup.com www.promat.at <small>© Etex Building Performance GmbH</small>	PROMASEAL®-S Firestop Silicone Linear joint seal Horizontal linear wall joint abutting a rigid floor, ceiling or roof construction			Modified by / on: ERA / 2018/07/27
				Drawn by: P. Erasim
				Drawing number: 709.04
	Scale:	Drawing format:	Date:	Department:
none	A4	2018/05/24	Technical appl.	

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