Promat

Konstruktionsnachweis 716

PROMASTOP®-CA-Brandschutzbeschichtung

Bautechnischer Brandschutz

Stand 20.06.2023

www.promat.com/de-at/brandschutz

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Inhaltsverzeichnis zum Promat-Konstruktionsnachweis 716

– **Leistungserklärung Nr. 0761-CPR-22/0029-2023/06** vom 12.06.2023

– **Klassifizierungsbericht Nr. PK2-11-22-001-E-1** (PAVUS Prag) vom 16.11.2022

LEISTUNGSERKLÄRUNG

Datum der Ausstellung: 6/12/2023

Ersetzt: Nr. --- - CPR --/---- - JJJJ/# of: TT/MM/JJJJ

Nr. 0761-CPR-22/0029-2023/06

1 **Eindeutiger Kenncode des Produkttyps:** **PROMASTOP®-CA**

2 **Typen- oder Chargennummer:** wie auf der Verpackung des Produkts angegeben

3 **Vorgesehene Verwendungszwecke** wie angegeben in der ETA-22/0029:
3.1 - PROMASTOP®-CA ist eine Brandschutzbeschichtung auf wässriger Basis und wird als Abschottung für Kabel, Kabelbündel, brennbaren und nichtbrennbaren Rohrleitungen (mit und ohne brennbarer Isolierung) in feuerwiderstandsfähigen Decken und Wänden verwendet.
3.2 – Das Produkt ist bestimmt für:
- Verwendung in Innenbereichen mit Luftfeuchte < 85 % RH, ohne Temperaturen unter 0°C und keine Exposition zu regen oder UV (TR 024:2009, Typ Z_2);
- Verwendung in Innenbereichen mit Luftfeuchte ≥85 % RH, ohne Temperaturen unter 0°C und keine Exposition zu regen oder UV (TR 024:2009, Typ Z_1);
- Verwendung bei Temperaturen unter 0°C, aber keine Exposition zu Regen oder UV (TR 024:2009, Typ Y_2);
- Verwendung bei Temperaturen unter 0°C mit UV-Exposition aber ohne Regen (TR 024:2009, Typ Y_1);
- Verwendung bei allen Witterungsbedingungen (TR 024:2009, Typ X).

4 **Name und Kontaktanschrift des Herstellers:**

Etex Building Performance NV
Bormstraat 24
B-2830 Tisselt
Belgium
Plant: 12, 30
www.etexgroup.com

5 **Bevollmächtigte:** nicht anwendbar.

6 **System oder Systeme zur Bewertung und Überprüfung der Leistungsbeständigkeit (BÜLB):** siehe Tabelle unter Abschnitt 9.

7 **Das Bauprodukt ist nicht durch eine harmonisierte Produktnorm abgedeckt.**

8 **Die Leistungserklärung betrifft ein Bauprodukt, für das eine Europäische Technische Bewertung (ETA) ausgestellt worden ist.**

Das Österreichische Institut für Bautechnik (OIB) hat eine Europäische Technische Bewertung mit der Nummer ETA-22/0029 für dieses Produkt auf Basis des EAD 350454-00-1104 ausgestellt.

Notifizierte Zertifizierungsstelle: Nr. 0761 (MPA Braunschweig)
Zertifikat / Bescheinigung der Leistungsbeständigkeit
0761 - CPR - 1064

9 **Erklärte Leistung**

Wesentliche Merkmale	Wesentliche Merkmale	Wesentliche Merkmale	Wesentliche Merkmale
GA1: Mechanische Festigkeit und Standsicherheit.			
GA2: Brandschutz:			
Brandverhalten:	1	D-s2,d0	ETA-22/0029 EAD 350454-00-1104
Feuerwiderstand:	1	Diese Eigenschaft hängt vom geprüften System ab. Die Leistung des Produkts in jeder einzelnen geprüften Bauart wird vom Hersteller in Abhängigkeit von der geplanten Verwendung nach Abschnitt 3.1 dieser Leistungserklärung nachgewiesen und als Nachweis zur Verfügung gestellt. Die Leistungsklassen sind in einem Klassifizierungsbericht nach dem ensprechend anwendbaren Teil der EN 13501 angegeben und erklärt.	
GA3: Hygiene, Gesundheit und Umweltschutz:			
Luftundurchlässigkeit:	-	KLB (Keine Leistung bewertet)	
Wasserundurchlässigkeit:	-	KLB (Keine Leistung bewertet)	ETA-22/0029

	Freisetzung gefährlicher Stoffe:	-	Deklaration / Erklärung (eingereicht bei der Technischen Bewertungsstelle)	EAD 350454-00-1104
	GA4: Sicherheit und Barrierefreiheit bei der Nutzung:			
	Mechanische Festigkeit und Standsicherheit:		KLB (Keine Leistung bewertet)	
	Stoßfestigkeit und Bewegungswiderstand:	-	KLB (Keine Leistung bewertet)	ETA-22/0029 EAD 350454-00-1104
	Adhäsion:		KLB (Keine Leistung bewertet)	
	GA5: Schallschutz:			
	Luftschalldämmung:		KLB (Keine Leistung bewertet)	ETA-22/0029 EAD 350454-00-1104
	GA6: Energieeinsparung und Wärmeschutz:			
	Wärmeleitfähigkeit:	-	KLB (Keine Leistung bewertet)	ETA-22/0029 EAD 350454-00-1104
	Wasserdampfdurchlässigkeit (Transmissionskoeffizient):	-	KLB (Keine Leistung bewertet)	
	Dauerhaftigkeit:			
	Grundlegender Nachweis der Dauerhaftigkeit:		Bei der vorgesehenen Anwendung, Klasse Z2, Z1, Y2, Y1, X nach EOTA TR024 und in Übereinstimmung mit EAD 350454-00-1104.	ETA-22/0029 EAD 350454-00-1104

Die Leistung des Produkts gemäß den Nummern 1 und 2 entspricht der erklärten Leistung nach Nummer 9.

Verantwortlich für die Erstellung dieser Leistungserklärung ist allein der Hersteller gemäß Nummer 4.

Die jeweils aktuellste Version dieser Leistungserklärung finden Sie unter "www.promat-ce.eu".

Das Sicherheitsdatenblatt gem. VO (EG) 1907/2006 von PROMASTOP®-CA ist auf Anfrage erhältlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Name: Ing. Matthias Wagner
Function: Approval Manager Fire Stopping

Linz, 6/12/2023

Signature: i.A. Wagner

PAVUS, a.s.
AUTHORIZED BODY 216
NOTIFIED BODY 1391
ACCREDITED CERTIFICATION BODY FOR PRODUCTS NO. 3041

PAVUS®
FIRE TESTING INSTITUTE

Address:
Prosecká 412/74, CZ 190 00 Praha 9 - Prosek
Tel.: +420 286 019 587, E-mail: mail@pavus.cz
http://www.pavus.cz

Branch:
Fire Testing Laboratory Veselí nad Lužnicí
Čtvrť J. Hybeše 879, CZ 391 81 Veselí nad Lužnicí
Tel.: +420 381 477 418, E-mail: veseli@pavus.cz

CLASSIFICATION REPORT OF FIRE RESISTANCE

Subject of classification:	*Penetration seals* *in accordance with EN 13501-2:2016: 7.5.8*
Report No.:	***PK2-11-22-001-E-1***
Product name:	***PROMASTOP®-CA** – firestop coating*
Sponsor:	*Promat Research and Technology Centre NV* *Bormstraat 24* *B-2830 Willebroek* *Belgium*
Prepared by:	*PAVUS, a.s.* *Accredited Certification body for products 3041* *- Accreditation issued by the Czech Accreditation Institute,* *- Certificate of Accreditation No. 314/2021* *Prosecká 412/74* *190 00 Praha 9* *Czech Republic* *Order No: Z210220287 (Z210220023)*
Date of issue:	*16 November 2022*
Copies in total:	*2*
Copy number:	*1*
Pages in total:	*126*

1 INTRODUCTION

1.1 This classification report defines fire resistance assigned to

PROMASTOP®-CA *- firestop coating used as coated batt seal* in accordance with the procedures given in EN 13501-2:2016.

1.2 This classification report consists of 126 pages and may only be used or reproduced in its entirety.

1.3 The classification report No PK2-11-22-001-E-0 issued on 2022-01-18 is substituted and canceled by this classification report.

2 DETAILS OF CLASSIFIED PRODUCT

2.1 General

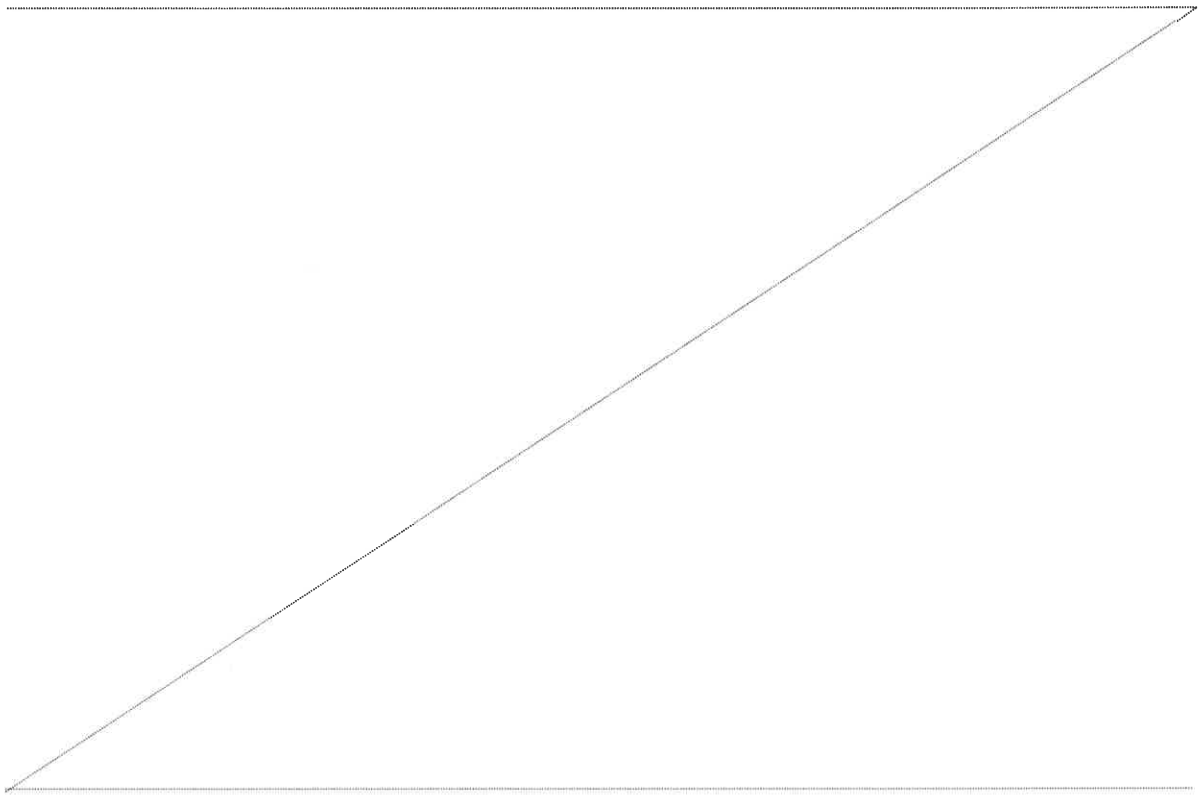
The classified elements - *penetration seals with PROMASTOP®-CA firestop coating* - are defined as penetration seals with regards to its parameters of fire resistance mentioned in cl. 5 of ČSN EN 13501-2.

2.2 Description

Description given by the sponsor is in clause 4.3 of this report and in the Test reports mentioned in 3.1.

Description of material used in this report:

- Cables, cable bundles, cable supporting systems (cable ladders, cable trays)
- Plastic pipes
- Coaxial cables
- Metal pipes with non-combustible insulation
- Metal pipes with combustible insulation
- Plastic aluminium compound pipes
- Conduits
- Split AC lines



3 TEST REPORTS / EXTENDED APPLICATION REPORTS AND TEST RESULTS IN SUPPORT OF THE CLASSIFICATION

3.1 Test reports / extended application reports

Name of laboratory Address Accreditation	Name of sponsor	Test report No Date of issue	Test standard and date / field of extended application standards and dates
PAVUS, a. s. *Veselí nad Lužnicí* *ATL No. 1026*	*Promat Research and Technology Centre NV*	*Pr-21-2.110-En* *2021-11-05*	*EN 1366-3:2009*
Magistratsabteilung 39, *1110 Wien* *No. 1139*	*Promat Research and Technology Centre NV*	*MA39-21-02302* *2022-04-29*	*EN 1366-3:2009*
Magistratsabteilung 39, *1110 Wien* *No. 1139*	*Promat Research and Technology Centre NV*	*MA39-22-03003* *2022-04-21*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 20369A* *2022-06-08*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 20430A* *2022-02-23*	*EN 1366-3:2009* *FprEN 1366-3:2021*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 20547A* *2022-02-23*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 20649A* *2022-02-23*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 21085A* *2022-06-24*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 21232A* *2022-08-05*	*EN 1366-3:2009*
WFRGENT NV, *B-9000 Gent* *No. 1173*	*Promat Research and Technology Centre NV*	*No. 22256A* *2022-10-14*	*EN 1366-3:2021*

3.2 Test results

For description of the tested specimens see above mentioned Test reports.

Test method, Test report No Date of issue	**Parameter**	**Results**
EN 1366-3 Pr-21-2.110-En 2021-11-05	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 5: A3, B, C1, C2, C3, D1, D2, E, D3, bundle F)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 Pr-21-2.110-En 2021-11-05	***PROMASTOP®-CA coated batt seal (2x50 mm) with tubes/conduits (specimen No 5: tube H_{Fe}, conduit I)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 5: A1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*128 min*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 5: A2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*125 min*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 5: G1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*113 min*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 5: G2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*120 min*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with tubes (specimen No 5: tube H_{Cu})***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*128 min*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with coaxial cables (specimens No 7, 8) and non-combustible insulation***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 24) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90°(perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***Offset PROMASTOP®-CA coated batt seal (2x50 mm) on the bottom side of the floor (specimen No 1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***Offset PROMASTOP®-CA coated batt seal (2x50 mm) on the top side of the floor (specimen No 2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-CC coated batt seal (2x50 mm), side by side application (specimen No 3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *Pr-21-2.110-En* *2021-11-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-I coated batt seal (2x50 mm), side by side application (specimen No 4)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 2: cables A1, A2, A3, B, C1, C2, C3, D1, D2, bundle F)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*120 min, no failure*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 2: cable E)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*111 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 2: cable D3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*117 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 2: cable G1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*95 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 2: cable G2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*101 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with tubes (specimen No 2: tube H_{Fe}, tube H_{Cu})***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*120 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with coaxial cables (specimen No 7) and non-combustible insulation***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*105 min*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with coaxial cables (specimen No 8) and non-combustible insulation***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*120 min, no failure*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Poloplast POLO-KAL 3S pipe (specimen No 5) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min, no failure* *120 min, no failure* *120 min, no failure*
	Insulation (I)	*120 min, no failure*

EN 1366-3 *MA39-21-02302* *2022-04-29*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PP-H pipe (specimen No 6) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 40 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *80 min* *80 min* *80 min*
	Insulation (I)	*80 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cables A1, A2, A3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*99 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable B)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*95 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable C1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*101 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable C2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*85 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable C3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*125 min, no failure*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable E)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*79 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable D1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*89 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable D2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*119 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable D3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*77 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: bundle F)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*91 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable G1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*71 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 19: cable G2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*67 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with pipes/tubes (specimen No 19: tube H_{Fe})***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*53 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with pipes/tubes (specimen No 19: tube H_{Cu})***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*125 min, no failure*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with pipes/tubes (specimen No 19: tube $I_{PVC/PO}$)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*109 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cable ladder/trays (specimen No 19: Cable ladder, non-perforated cable tray)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Tray orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*125 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with trays/ladders (specimen No 19: perforated cable tray)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Trays orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*115 min*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PP-H pipe (specimen No 16) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*125 min, no failure*

EN 1366-3 *MA39-22-03003* *2022-04-21*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 17) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Rigid wall th. 100 mm, with low density ≥ 450 kg/m³ made of aerated concrete blocks*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *125 min, no failure* *125 min, no failure* *125 min, no failure*
	Insulation (I)	*125 min, no failure*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cables A1, D1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*81 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable A2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*127 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable A3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*82 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable B)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*49 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable C1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*65 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable C2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*55 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable C3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*39 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable E)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*63 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable D2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*101 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable D3)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*77 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: bundle F)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *96 min* *96 min* *96 min*
	Insulation (I)	*93 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable G1)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*36 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cables (specimen No 10: cable G2)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Cable orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*43 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with pipes/tubes (specimen No 10: tube H_{Cu})***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*11 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with pipes/tubes (specimen No 10: tube $I_{PVC/PO}$)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*89 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cable ladder/trays (specimen No 10: perforated cable tray)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Tray orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*40 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cable ladder/trays (specimen No 10: non-perforated cable tray)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Tray orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*36 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cable ladder/trays (specimen No 10: cable ladders)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Tray orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*95 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 39) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90°(perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *113 min* *113 min* *113 min*
	Insulation (I)	*99 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PP-H pipe (specimen No 40) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *113 min* *113 min* *113 min*
	Insulation (I)	*112 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Silent-PP pipe (specimen No 42) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90°(perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *117 min* *117 min* *117 min*
	Insulation (I)	*112 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Rehau Raupiano Plus pipe (specimen No 43) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*100 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Dyka Dykasono pipe (specimen No 44) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *67 min* *67 min* *67 min*
	Insulation (I)	*62 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with POLO-KAL NG pipe (specimen No 45) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*116 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with POLO-KAL 3S pipe (specimen No 46) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*131 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 11) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 12) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*122 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 13) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*118 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 14) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*91 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimens No 15, 16) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 17) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*65 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 18) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*105 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 19) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*70 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 20) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*65 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 21) and non-combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*81 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 22) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*117 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 23) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*60 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 24) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*59 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 25) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 26) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *104 min* *104 min* *104 min*
	Insulation (I)	*104 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 27) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*89 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 28) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *96 min* *96 min* *96 min*
	Insulation (I)	*48 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 29) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *63 min* *63 min* *63 min*
	Insulation (I)	*53 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 30) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *86 min* *86 min* *86 min*
	Insulation (I)	*65 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 31) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *86 min* *86 min* *86 min*
	Insulation (I)	*46 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 32) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *56 min* *56 min* *56 min*
	Insulation (I)	*54 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 33) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *54 min* *54 min* *54 min*
	Insulation (I)	*54 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 34) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*121 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 35) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*42 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 36) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*109 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 37) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *43 min* *43 min* *43 min*
	Insulation (I)	*41 min*

EN 1366-3 *No. 20369A* *2022-06-08*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 38) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *80 min* *80 min* *80 min*
	Insulation (I)	*54 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, 1,45 x 1,45 m (specimen No 9)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 11, 12) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*131 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 13) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*63 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 14) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*81 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimens No 15, 16) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*131 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 17) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*109 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 18) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*105 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 25) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*123 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 26) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*116 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimens No 27, 30) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*92 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 28) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 29) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *80 min* *80 min* *80 min*
	Insulation (I)	*44 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 31) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*42 min*

EN 1366-3 *No. 20430A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipes (specimen No 32) and combustible insulation with PROMASTOP®-W, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *79 min* *79 min* *79 min*
	Insulation (I)	*62 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 19) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 20) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*126 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 21) and non-combustible insulation, LS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*56 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimens No 22, 23) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 24) and non-combustible insulation, LI***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*66 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 33) and combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*87 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimens No 34, 36) and combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 35) and combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*45 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 37) and combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*59 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipes (specimen No 38) and combustible insulation, CS***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*47 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Dyka Dykasono PVC-U pipe (specimen No 44) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*112 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with POLO-KAL NG pipe (specimen No 45) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *83 min* *83 min* *83 min*
	Insulation (I)	*83 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with POLO-KAL 3S pipe (specimen No 46) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *55 min* *55 min* *55 min*
	Insulation (I)	*49 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 55) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 56) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *82 min* *82 min* *82 min*
	Insulation (I)	*82 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe (specimen No 57) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *44 min* *44 min* *44 min*
	Insulation (I)	*44 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduit (specimen No 58) and PROMASEAL®-AG firestop sealant***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *112 min* *112 min* *112 min*
	Insulation (I)	*112 min*

EN 1366-3 *No. 20547A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduit bundle with and without cables (specimen No 59) and PROMASEAL®-AG firestop sealant***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from one side*
	Supporting construction	*Flexible wall th. 100 mm, made of gypsum plasterboards, 2x 12.5 mm on each side, steel studs 50 mm x 50 mm, mineral wool insulation th. 50 mm, density ≥ 100 kg/m³*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *96 min* *96 min* *96 min*
	Insulation (I)	*4 min*

EN 1366-3 *No. 20649A* *2022-02-23*	***PROMASTOP®-CC coated batt seal (2x50 mm) overpainted with PROMASTOP®-CA, blank seal, 1 x 1 m (specimen No 24)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*116 min*

EN 1366-3 *No. 20649A* *2022-02-23*	***PROMASTOP®-I coated batt seal (2x50 mm) overpainted with PROMASTOP®-CA, blank seal, 1 x 1 m (specimen No 25)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20649A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PP pipe (specimen No 35) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20649A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Silent PRO pipe (specimen No 37) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 20649A* *2022-02-23*	***PROMASTOP®-CA coated batt seal (2x50 mm) with PE pipe and combustible insulation (specimen No 27) and PROMASTOP®-W firestop wrap***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*122 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni pipe plus pipe and combustible insulation (specimens No III.8, III.6) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *120 min* *120 min* *120 min*
	Insulation (I)	*120 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni pipe plus pipe and combustible insulation (specimen No III.7) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *117 min* *117 min* *117 min*
	Insulation (I)	*77 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Systemrohr ML pipe and combustible insulation (specimen No III.13, IV.14, IV.15) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Systemrohr ML pipe and combustible insulation (specimen No IV.16) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*127 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni pipe plus pipe and combustible insulation (specimen No III.5) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor MLC pipe and combustible insulation (specimen No III.12) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *119 min* *119 min* *119 min*
	Insulation (I)	*101 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe and combustible insulation (specimen No V.23) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*63 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe and combustible insulation (specimen No V.22) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *115 min* *115 min* *115 min*
	Insulation (I)	*103 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe and combustible insulation (specimen No V.21) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe and combustible insulation (specimen No V.19) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *115 min* *115 min* *115 min*
	Insulation (I)	*63 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe and combustible insulation (specimen No V.27) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *122 min* *122 min* *122 min*
	Insulation (I)	*61 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe and combustible insulation (specimen No V.26) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *115 min* *115 min* *115 min*
	Insulation (I)	*108 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe and combustible insulation (specimen No V.25) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe and combustible insulation (specimen No V.24) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *95 min* *95 min* *95 min*
	Insulation (I)	*90 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe and combustible insulation (specimen No VI.32) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *102 min* *102 min* *102 min*
	Insulation (I)	*91 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe and combustible insulation (specimen No VI.31) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *118 min* *118 min* *118 min*
	Insulation (I)	*105 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe and combustible insulation (specimen No VI.28) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *93 min* *93 min* *93 min*
	Insulation (I)	*82 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe and combustible insulation (specimen No VI.29) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe and combustible insulation (specimen No VI.30) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming **Insulation (I)**	 *114 min* *114 min* *114 min* *111 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe and combustible insulation (specimens No IV.18, IV.17) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming **Insulation (I)**	 *132 min, no failure* *132 min, no failure* *132 min, no failure* *132 min, no failure*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe and combustible insulation (specimen No IV.20) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *114 min* *114 min* *114 min*
	Insulation (I)	*106 min*

EN 1366-3 *No. 21323A* *2022-08-05*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor MLC pipe and combustible insulation (specimen No IV.11) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Silent-PP pipe (specimen No 1) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Poloplast POLO-KAL 3S PRO pipe (specimen No 18) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*128 min*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Master3 plus pipe (specimen No 19) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with bundle of Wieland Frigotec-plus clima split pipes, condensate tube and cables (specimen No 10) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U; U/C*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*91 min*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with bundle of conduits (3x40 mm), with and without cables, (specimen No 26) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduits (63 mm), with and without cables, (specimen No 27, 28) and PROMASTOP®-FC MD firestop collar***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduits (32 mm), with and without cables, (specimen No 12, 13) and PROMASTOP®-W firestop wrap***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduit (40 mm), without cables, (specimen No 14) and PROMASTOP®-W firestop wrap***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with conduit (40 mm), with cables, (specimen No 15) and PROMASTOP®-W firestop wrap***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*131 min*

EN 1366-3 *No. 21085A* *2022-06-24*	***PROMASTOP®-CA coated batt seal (2x50 mm) with cluster made of conduits (3x32 mm), with and without cables, (specimen No 16) and PROMASTOP®-W firestop wrap***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Pipe end configuration inside/outside the furnace	*U/U*
	Pipe orientation	*90° (perpendicular to the seal)*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *132 min, no failure* *132 min, no failure* *132 min, no failure*
	Insulation (I)	*132 min, no failure*

EN 1366-3 *No. 22256A* *2022-10-14*	***PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, 1,20 x 1,20 m (specimen No A) with 200 mm distance between the boards***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 300 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *183 min, no failure* *183 min, no failure* *183 min, no failure*
	Insulation (I)	*117 min*

EN 1366-3 *No. 22256A* *2022-10-14*	***PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, 1,20 x 1,20 m (specimen No B)***	
	Fire scenario	*standard temperature / time curve*
	Direction of exposure	*from underside*
	Supporting construction	*rigid floor with low density ≥ 650 kg/m³ made of YTONG panels th. 150 mm*
	Integrity (E) - cracks or openings - cotton pad - sustained flaming	 *183 min, no failure* *183 min, no failure* *183 min, no failure*
	Insulation (I)	*140 min*

4 CLASSIFICATION AND FIELD OF APPLICATION

4.1 Reference of classification

This classification has been carried out in accordance with clause 7.5.8 of EN 13501-2:2016.

Tests were carried out in accordance with EN 1366-3:2009, FprEN 1366-3:2021 and EN 1366-3:2021; test procedure and test conditions complied with requirements of EN 1366-3:2021.

4.2 Classification

4.2.1 PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, size 1,45 m x 1,45 m (or 2,1025 m²) in a flexible and rigid wall construction 100 mm, 0.7 mm dry film thickness on the surface of the coated batt seal, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.2 PROMASTOP®-CC coated batt seal (2x50 mm), overpainted with PROMASTOP®-CA coating, blank seal, size 1 m x 1 m (or 1 m²) in a rigid floor construction 150 mm, 0.7-0.9 mm dry film thickness on the surface of the coated batt seal, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90

4.2.3 PROMASTOP®-I coated batt seal (2x50 mm), overpainted with PROMASTOP®-CA coating, blank seal, size 1 m x 1 m (or 1 m²) in a rigid floor construction 150 mm, 0.7-0.9 mm dry film thickness on the surface of the coated batt seal, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.4 PROMASTOP®-CA coated batt seal (2x50 mm), used as cable penetration seal, 4 mm dry film thickness on the cables, 2 mm dry film thickness on the cable trays and ladders, 0.7 mm dry film thickness on the surface of the coated batt seal, coating length min. 200 mm on each side, in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class, in the table shown below:

	Classification
All sheathed cable types: Ø ≤ 21 mm	**EI 120**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**EI 120**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**EI 120**
Tied cable bundle: Ø ≤ 100 mm	**EI 120**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 90**
Conduits and tubes, made of steel, copper or plastic: Ø ≤ 16 mm	**EI 120-U/C**
Cable trays (perforated and non-perforated), cable ladders	**EI 120**

4.2.5 PROMASTOP®-CA coated batt seal (2x50 mm), used as cable penetration seal, 4 mm dry film thickness on the cables, 2 mm dry film thickness on the cable trays and ladders, 0.7 mm dry film thickness on the surface of the coated batt seal, coating length min. 200 mm on each side, in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and classes, in the table shown below:

	Classification
All sheathed cable types: Ø ≤ 21 mm	**EI 120**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 90**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 90**
Tied cable bundle: Ø ≤ 100 mm	**EI 120**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 90**
Conduits and tubes, made of steel, copper or plastic: Ø ≤ 16 mm	**EI 120-U/C**
Cable trays (perforated and non-perforated), cable ladders	**EI 120**

4.2.6 PROMASTOP®-CA coated batt seal (2x50 mm), used as cable penetration seal, 1 mm dry film thickness on the cables, 1 mm dry film thickness on the cable trays and ladders, 0.7 mm dry film thickness on the surface of the coated batt seal, coating length min. 100 mm on each side, in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and classes, in the table shown below:

	Classification
All sheathed cable types: Ø ≤ 21 mm	**E 120 / EI 90**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 60**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 60**
Tied cable bundle: Ø ≤ 100 mm	**E 120 / EI 90**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 60**
Conduits and tubes, made of steel, copper or plastic: Ø ≤ 16 mm	**E 120-U/C / EI 45-U/C**
Cable trays (non-perforated), cable ladders	**EI 120**
Cable trays (perforated)	**E 120 / EI 90**

4.2.7 PROMASTOP®-CA coated batt seal (2x50 mm), used as cable penetration seal, 1 mm dry film thickness on the cables of Cable group 1, Cable group 4 and on the cable trays and ladders, 1.5-2 mm dry film thickness on the cables of Cable group 2, Cable group 3, Cable group 5 and Cable group 6, 0.7 mm dry film thickness on the surface of the coated batt seal, coating length min. 100 mm on each side, in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes, in the table shown below:

	Classification
All sheathed cable types: Ø ≤ 21 mm	**EI 90**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 30**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 60**
Tied cable bundle: Ø ≤ 100 mm	**EI 90**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 30**
Conduits and tubes, made of steel, copper: Ø ≤ 16 mm	**E 120-U/U**
Conduits and tubes, made of plastic: Ø ≤ 16 mm	**E 120 / EI 60-U/U**
Cable trays (perforated and non-perforated)	**E 120 / EI 30**
Cable ladders	**E 120 / EI 60**

4.2.8 PROMASTOP®-CA coated batt seal (2x50 mm), used as coaxial cable penetration seal, with additional A1 insulation, LI, length 300 mm, thickness 20 mm and 30 mm, density ~ 40kg/m³, 0.7 mm dry film thickness on the surface of the coated batt seal, in a 100 mm flexible wall construction and a 100 mm rigid wall construction as well as in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.9 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PE pipe, in range Ø 40 - 75 mm, pipe wall thickness 2.3 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.10 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL 3S pipe, Ø 110 mm, pipe wall thickness 4.8 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.11 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PP-H pipe, Ø 110 mm, pipe wall thickness 6.3 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 60 – U/U

4.2.12 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PP-H pipe, Ø 110 mm, pipe wall thickness 2.7 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.13 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PE pipe, Ø 110 mm, pipe wall thickness 2.7 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.14 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PE pipe, Ø 110 mm, pipe wall thickness 2.7 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 90 – U/U

4.2.15 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PP-H pipe, Ø 110 mm, pipe wall thickness 2.7 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 90 – U/U

4.2.16 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Geberit Silent-PP pipe, Ø 125 mm, pipe wall thickness 3.9 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 90 – U/U

4.2.17 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Rehau Raupiano Plus pipe, Ø 125 mm, pipe wall thickness 3.1 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/U

4.2.18 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Dyka Dykasono pipe, Ø 125 mm, pipe wall thickness 5.3 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 60 – U/U

4.2.19 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL NG pipe, Ø 125 mm, pipe wall thickness 3.9 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/U

4.2.20 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL 3S pipe, Ø 125 mm, pipe wall thickness 5.3 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.21 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL XS pipe (the same as POLO-KAL NG pipe, based on declaration of the manufacturer), for Ø 125 mm, pipe wall thickness 3.9 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/U

4.2.22 PROMASTOP®-CA coated batt seal (2x50 mm), 0.7 mm dry film thickness on the surface of the coated batt seal, 100 mm oversize on the supporting construction, 1st layer fixed on to the supporting construction, 2nd layer with spiral screws on to the 1st layer, max. seal size: 0.64 m², installed offset on the top side of a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.23 PROMASTOP®-CA coated batt seal (2x50 mm), 0.7 mm dry film thickness on the surface of the coated batt seal, 100 mm oversize on the supporting construction, 1st layer fixed on to the supporting construction, 2nd layer with spiral screws on to the 1st layer, max. seal size: 0.64 m², installed offset on the bottom side of a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.24 PROMASTOP®-CA coated batt seal (2x50 mm), installed side by side with PROMASTOP®-CC coated batt seal (2x50 mm) in one opening, 0.7 mm dry film thickness on the surface of the PROMASTOP®-CA and PROMASTOP®-CC coated batt seal, in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.25 PROMASTOP®-CA coated batt seal (2x50 mm), installed side by side with PROMASTOP®-I coated batt seal (2x50 mm) in one opening, 0.7 mm dry film thickness on the surface of the PROMASTOP®-CA coated batt seal and 1 mm dry film thickness on the PROMASTOP®-I coated batt seal, in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120

4.2.26 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe, Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.27 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.28 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.29 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 6.3 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.30 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2 x 250 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.31 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2 x 250 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.32 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2 x 500 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.33 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 6.3 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2 x 1250 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.34 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.35 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.36 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, length 2000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.37 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, 2 x 500 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.38 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, 2 x 500 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.39 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and non-combustible (Rockwool Klimarock) insulation, thickness 30 mm, density 42 kg/m³, 2 x 1000 mm, case LI, mounted on the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 45 – U/C

4.2.40 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (KFX ST), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.41 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.42 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.6 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.43 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.6 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 90 / EI 45 – U/C

4.2.44 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 60 / EI 45 – U/C

4.2.45 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and combustible insulation (Armaflex XG), thickness 40 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 60 – U/C

4.2.46 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 6.3 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 60 / EI 45 – U/C

4.2.47 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 6.3 mm.and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 45 – U/C

4.2.48 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe for Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and combustible insulation (Armaflex XG), thickness 6 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 45 – U/C

4.2.49 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.50 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 30 – U/C

4.2.51 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class,

E 120 / EI 90 – U/C

4.2.52 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 30 – U/C

4.2.53 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 60 / EI 45 – U/C

4.2.54 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 500 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.55 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.3 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 500 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.56 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.57 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 5.9 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2500 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.58 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 250 mm, case LI, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.59 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.3 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 250 mm, case LI, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.60 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 500 mm, case LI, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.61 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 5.9 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 1250 mm, case LI, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.62 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 6 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.63 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 21.3 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.64 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.3 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.65 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 42.4 mm, pipe wall thickness ≥ 2.6 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.66 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 60 / EI 30 – U/C

4.2.67 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 114.3 mm, pipe wall thickness ≥ 3.6 mm and combustible insulation (Armaflex XG), thickness 40 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C

4.2.68 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe Ø 219.1 mm, pipe wall thickness ≥ 5.9 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 30 – U/C

4.2.69 PROMASTOP®-CA coated batt seal (2x50 mm) with steel pipe for Ø 219.1 mm, pipe wall thickness ≥ 5.9 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 60 – U/C

4.2.70 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.71 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 1000 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.72 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2000 mm, case LS, mounted in the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 45 – U/C

4.2.73 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 500 mm, case LI, mounted on the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.74 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 500 mm, case LI, mounted on the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.75 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and non-combustible insulation (Rockwool Klimarock), thickness 30 mm, density 42 kg/m³, length 2x 1000 mm, case LI, mounted on the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.76 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and combustible insulation (Armaflex XG), thickness 6 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.77 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 18.0 mm, pipe wall thickness ≥ 1.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.78 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 45 – U/C

4.2.79 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 42.0 mm, pipe wall thickness ≥ 1.5 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.80 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 9 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 45 – U/C

4.2.81 PROMASTOP®-CA coated batt seal (2x50 mm) with copper pipe Ø 88.9 mm, pipe wall thickness ≥ 2.0 mm and combustible insulation (Armaflex XG), thickness 32 mm, case CS, 1 layer PROMASTOP®-W mounted in both sides of the coated batt seal in a flexible wall construction 100 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 45 – U/C

4.2.82 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Dyka Dykasono PVC-U pipe, Ø 125 mm, pipe wall thickness 5.3 mm mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/U

4.2.83 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL NG pipe, Ø 125 mm, pipe wall thickness 3.9 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 60 – U/U

4.2.84 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL 3S pipe, Ø 125 mm, pipe wall thickness 5.3 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 45 – U/U

4.2.85 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL XS pipe (the same as POLO-KAL NG pipe, based on declaration of the manufacturer), Ø 125 mm, pipe wall thickness 3.9 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 60 – U/U

4.2.86 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PE pipe, Ø 160 mm, pipe wall thickness 4.0 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.87 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PE pipe, Ø 160 mm, pipe wall thickness 6.2 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 60 – U/U

4.2.88 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PP-H pipe, Ø 160 mm, pipe wall thickness 6.2 mm, mounted on both sides of the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 30 – U/U

4.2.89 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASEAL®-AG, intumescent sealant used for a flexible conduit Ø 50 mm, on both sides in the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

EI 90 – U/U

4.2.90 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASEAL®-AG, intumescent sealant used for a bundle of flexible conduits 5x Ø 50 mm (with and without cables Ø ≤ 21 mm), on both sides in the coated batt seal in a 100 mm flexible wall construction and a 100 mm rigid wall construction, is classified according to the following combinations of performance parameters and class:

E 90 – U/U

4.2.91 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for PP-H pipe, Ø 75 mm, pipe wall thickness 2.3 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.92 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Geberit Silent PRO pipe, Ø 75 mm, pipe wall thickness 3.3 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.93 PROMASTOP®-CA coated batt seal (2x50 mm) with 5 layers of PROMASTOP®-W (and 2 "C" brackets), pipe closure device used for insulated (thickness 13 mm, AFX XG, case CS) PE pipe, Ø 110 mm, pipe wall thickness 3.5 mm, mounted in the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.94 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni Pipe Plus pipe, Ø 32.0 mm, pipe wall thickness 3.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.95 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni Pipe Plus pipe, Ø 32.0 mm, pipe wall thickness 3.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and classes:

E 90 / EI 60 – U/C

4.2.96 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni Pipe Plus pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.97 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Systemrohr ML pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.98 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor Uni Pipe Plus pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.99 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor MLC pipe, Ø 110.0 mm, pipe wall thickness 10.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.100 PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.101 PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.102 PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.103 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and classes:

E 90 / EI 60 – U/C

4.2.104 PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and classes:

E 120 / EI 60 – U/C

4.2.105 PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.106 PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.107 PROMASTOP®-CA coated batt seal (2x50 mm) with Henco Standard pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.108 PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 9-32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.109 PROMASTOP®-CA coated batt seal (2x50 mm) with Pipelife Radopress pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and classes:

E 90 / EI 60 – U/C

4.2.110 PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe, Ø 14.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.111 PROMASTOP®-CA coated batt seal (2x50 mm) with HakaGerodur HAKAthen pipe, Ø 14.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.112 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Systemrohr ML pipe, Ø 25.0 mm, pipe wall thickness 2.5 mm, and combustible (AFX XG) insulation, thickness 9-32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.113 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe, Ø 16.0 mm, pipe wall thickness 2.25 mm, and combustible (AFX XG) insulation, thickness 9-32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.114 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Mepla pipe, Ø 63.0 mm, pipe wall thickness 4.5 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 90 – U/C

4.2.115 PROMASTOP®-CA coated batt seal (2x50 mm) with Geberit Systemrohr ML pipe, Ø 16.0 mm, pipe wall thickness 2.0 mm, and combustible (AFX XG) insulation, thickness 32 mm, length 500 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.116 PROMASTOP®-CA coated batt seal (2x50 mm) with Uponor MLC pipe, Ø 110.0 mm, pipe wall thickness 10.0 mm, and combustible (AFX XG) insulation, thickness 9 mm, length 1000 mm, case LS, mounted in the coated batt seal in a rigid floor construction 150 mm, and a PROMASTOP®-FC MD, pipe closure device mounted on the bottom side of the coated batt seal is classified according to the following combinations of performance parameters and class:

EI 120 – U/C

4.2.117 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Poloplast POLO-KAL 3S PRO pipe, Ø 110 mm, pipe wall thickness 4.8 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.118 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for Pipelife Master3 plus pipe, Ø 110 mm, pipe wall thickness 3.0 mm, mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.119 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for bundle made of 2 Wieland Frigotec-plus clima split pipes (Ø 6,35 mm – 19 mm, pipe wall thickness 0.8 mm – 1 mm, U/C, insulated with 9 mm PE foam, CS), condensate tube (Ø 20 mm, pipe wall thickness 3.5 mm, U/U) and two cables (A2, Ø 15 mm) mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and classes:

E 120 / EI 90 – U/C | E 120 / EI 90 | E 120 / EI 90-U/U

4.2.120 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for bundle made of flexible conduits (3x Ø 40 mm, U/U, with and without cables), mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.121 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-FC MD, pipe closure device used for flexible conduits (Ø 63 mm, U/U, with and without cables), mounted on the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.122 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-W, firestop wrap used for flexible conduits (Ø 32 mm, U/U, with and without cables), mounted in the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.123 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-W, firestop wrap used for flexible conduits (Ø 40 mm, U/U, with and without cables), mounted in the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.124 PROMASTOP®-CA coated batt seal (2x50 mm) with PROMASTOP®-W, firestop wrap used for flexible conduits (cluster of 3x Ø 32 mm, U/U, with and without cables), mounted in the bottom side of the coated batt seal in a rigid floor construction 150 mm, is classified according to the following combinations of performance parameters and class:

EI 120 – U/U

4.2.125 PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, size 1,20 m x 1,20 m (or 1,44 m²), 0.7-0.9 mm dry film thickness on the surface of the coated batt seal, in a rigid floor construction 300 mm, distance of 200 mm between the boards is classified according to the following combinations of performance parameters and class:

E 180 / EI 90

4.2.126 PROMASTOP®-CA coated batt seal (2x50 mm), blank seal, size 1,20 m x 1,20 m (or 1,44 m²), 0.7-0.9 mm dry film thickness on the surface of the coated batt seal, in a rigid floor construction 150 mm is classified according to the following combinations of performance parameters and class:

E 180 / EI 120

For more details of classified systems, see clause 4.3 of this report.

4.3 Field of application

This classification is valid for the following end use applications, where relevant rules of EN 1366-3:2009 and EN 1366-3:2021 were used. Test results are applicable to the orientation in which the penetration sealing systems were tested.

4.3.1 Test results obtained with rigid floor standard supporting constructions may be applied to concrete or masonry separating elements of a thickness equal to or greater than 150 mm that of the supporting construction used in the test and density equal to or greater than 650 kg/m^3 that of the supporting construction used in the test.

4.3.2 Test results obtained with the standard flexible wall constructions cover all flexible wall constructions of the same fire resistance classification provided:

- the construction is classified in accordance with EN 13501-2;
- the construction has an overall thickness not less than the minimum thickness of the range given in Table 3 of EN 1366-3:2009 for the standard flexible wall used in the test. This rule does not apply to pipe closure devices positioned within the supporting construction unless the length of the seal is increased by an equal amount and the distance from the surface of the supporting construction remains the same on both sides;
- in the case of penetration seals installed within the wall and where a flexible wall with insulation was used in the test an aperture framing shall be used in practice. The aperture frame and aperture lining shall be made from studs and boards of the same specification as those used in the wall in practice. The thickness of the aperture lining shall be minimum 12.5 mm;
- the number of board layers and the overall board layer thickness is equal or greater than that tested when no aperture framing is used;
- flexible wall constructions with timber studs are constructed with at least the same number of layers as given in Table 3 of EN 1366-3:2009, no part of the penetration seal is closer than 100 mm to a stud, the cavity is closed between the penetration seal and the stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1 is provided within the cavity between the penetration seal and the stud.

4.3.3 The standard flexible wall construction does not cover sandwich panel constructions and flexible walls where the lining does not cover the studs on both sides.

4.3.4 Test results obtained from tests with plastic pipes having both ends uncapped (test condition U/U) are valid for all other test conditions of table below.

		Tested			
		U/U	*C/U*	*U/C*	*C/C*
Covered	*U/U*	Y	N	N	N
	C/U	Y	Y	N	N
	U/C	Y	Y	Y	N
	C/C	Y	Y	Y	Y
Y = acceptable, N = not acceptable					

4.3.5 Test results obtained from tests with metal pipes having one end capped (outside; test condition U/C) are valid for other test conditions of table below.

		Tested			
		U/U	*C/U*	*U/C*	*C/C*
Covered	*U/U*	Y	N	N	N
	C/U	Y	Y	Y	N
	U/C	Y	N	Y	N
	C/C	Y	Y	Y	Y
Y = acceptable, N = not acceptable					

4.3.6 General requirements of PROMASTOP®-CA coated batt penetration seal

The PROMASTOP®-CA coated batt penetration seal consists of two stone wool boards (definition see below), where PROMASTOP®-CA firestop coating is applied on the outer surface of the stone wool boards, as well on the cutting edges and aperture opening (on the contact area) and board edges. Dry film thickness shall be at least minimum 0.7 mm.

Overlapping of the PROMASTOP®-CA firestop coating on the supporting construction is not mandatory.

Stone wool boards	Density: ≥ 140 kg/m³ Thickness: ≥ 50 mm Melting point: ≥ 1000 °C Reaction to fire acc. EN 13501-1: A1

Distance between the stone wool boards shall be 0 mm at any time in flexible or rigid wall constructions.

Maximum distance between the stone wool boards in rigid floor constructions shall be 200 mm.

Pre-coated stone wool batts with PROMASTOP®-CA:

Trade name	**Thickness of the stone wool boards**	**Coating**
PROMASTOP®-CA CB5 1s	50 mm	One-sided

4.3.7 Seal size of PROMASTOP®-CA coated batt penetration seal

PROMASTOP®-CA coated batt penetration seal may be used also as a blank seal. The maximum seal size is given in the table below.

Supporting construction	**Seal size of 2 x 50 mm PROMASTOP®-CA coated batts**	**Classification**
Flexible walls	1,45 m x 1,45 m (or 2,1025 m²)	EI 120
Rigid walls	1,45 m x 1,45 m (or 2,1025 m²)	EI 120
Rigid floor	1,2 m x 1,2 m (or 1,44 m²)	E 180 / EI 120
Rigid floor	1,2 m x 1,2 m (or 1,44 m²)	E 180 / EI 90 *

* maximum distance of 200 mm between the boards

The U/UW or C/CW profiles of a flexible wall may be used as aperture framing in the flexible wall. Boards such as the lining of the wall may be used also as aperture framing.

4.3.8 Overpaint ability with PROMASTOP®-CA firestop coating

PROMASTOP®-CC coated batt penetration seals may be overpainted with PROMASTOP®-CA firestop coating.

Firestop coating (surface of the penetration seal)	***Dry film thickness in mm***
PROMASTOP®-CA	≥ 0.7

Classification: E 120 / EI 90

PROMASTOP®-I coated batt penetration seals may be overpainted with PROMASTOP®-CA firestop coating.

Firestop coating (surface of the penetration seal)	***Dry film thickness in mm***
PROMASTOP®-CA	≥ 0.7

Classification: EI 120

The maximum seal size is given by the PROMASTOP®-CC or PROMASTOP®-I coated batt seal system.

4.3.9 Mixing of PROMASTOP®-CA coated batt penetration seals with PROMASTOP®-I or PROMASTOP®-CC coated batt seals

The PROMASTOP®-CA coated batt penetration seal can be combined with PROMASTOP®-CC or PROMASTOP®-I coated batt penetration seals in one opening (e.g. for retrofitting). The firestop coating for the cutting edges or board edges of the coated batt seals can be selected as available from the mentioned coatings above. The overall thickness of the coated batt shall be at least 2x50 mm. Distance between the stone wool boards shall be 0 mm at any time.

Firestop coating (surface of the penetration seal)	***Dry film thickness in mm***
PROMASTOP®-CA	≥ 0.7
PROMASTOP®-CC	≥ 0.7
PROMASTOP®-I	≥ 1

Classification: EI 120

4.3.10 Offset PROMASTOP®-CA coated batt penetration seals on top side or on the bottom side of the floor

The PROMASTOP®-CA coated batt penetration seal with a maximum seal size of 0.64 m² can be installed on the top side of a rigid floor construction or on the bottom side of a rigid floor construction. At least 100 mm of the coated batt shall be overlapping on the supporting construction, and the coated batts shall be sticked on the surface applying PROMASTOP®-CA firestop coating on to the floor construction.

The first layer of the coated batt seal shall be fixed with appropriate fixing material (depending on the supporting construction), fixing distance ≤ 250 mm, to the rigid floor.

The second layer of the coated batt seal shall be fixed with appropriate fixing material (depending on the supporting construction), fixing distance ≤ 250 mm or at least spiral screws made of steel, ≥ 8 x 100 mm into the first layer.

Classification: EI 120

4.3.11 PROMASTOP®-CA coated batt penetration seals used cable penetration or mixed penetration seal

All sheathed cables:

All sheathed cable types currently and commonly used in building practice in Europe (e.g. control, power, data, optical fibre cables, signal, telecommunication).

All non-sheathed cables:

All non-sheathed cables (wires) currently and commonly used in building practice in Europe.

Tied cable bundle:

Maximum diameter 100 mm, maximum diameter of single cable 21 mm.

Service supporting constructions:

Cable trays and cable ladders made of steel may penetrate the PROMASTOP®-CA coated batt seal. Steel cable trays and cable ladders with organic coatings shall at least be classified A2 according to EN 13501-1.

Thickness and length of PROMASTOP®-CA on cables, cable bundles and cable trays:

Services	Min. dry film thickness in mm	Min. coating length on both sides in mm
All sheathed and non-sheathed cable types	4	200
Small conduits and tubes, made of steel, copper or plastic	4	200
Cable trays (perforated and non-perforated) and cable ladders	2	200

Services	Classification	
	Flex. and rigid wall	Rigid floor
All sheathed cable types: Ø ≤ 21 mm	**EI 120**	**EI 120**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 90**	**EI 120**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 90**	**EI 120**
Tied cable bundle: Ø ≤ 100 mm	**EI 120**	**EI 120**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 90**	**E 120 / EI 90**
Conduits and tubes, made of steel, copper or plastic: Ø ≤ 16 mm	**EI 120-U/C**	**EI 120-U/C**
Cable trays (perforated and non-perforated), cable ladders	**EI 120**	**EI 120**

Services	Min. dry film thickness in mm	Min. coating length on both sides in mm
All sheathed and non-sheathed cable types	1	100
Small conduits and tubes, made of steel, copper or plastic	1	100
Cable trays (perforated and non-perforated) and cable ladders	1	100

Services	Classification	
	Flex. and rigid wall	Rigid floor
All sheathed cable types: Ø ≤ 21 mm	**E 120 / EI 90**	**EI 90**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 60**	-
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 60**	-
Tied cable bundle: Ø ≤ 100 mm	**E 120 / EI 90**	**EI 90**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 60**	-
Conduits and tubes, made of steel, copper or plastic: Ø ≤ 16 mm	**E 120 / EI 45-U/C**	-
Cable trays (perforated and non-perforated), cable ladders	**EI 120**	-

Services	Min. dry film thickness in mm	Min. coating length on both sides in mm
All sheathed and non-sheathed cable types	1.5 - 2	100
Small conduits and tubes, made of steel, copper or plastic	1.5 - 2	100
Cable trays (perforated and non-perforated) and cable ladders	1.5 - 2	100

Services	Classification	
	Flex. and rigid wall	Rigid floor
All sheathed cable types: Ø ≤ 21 mm	**E 120 / EI 90**	**EI 90**
All sheathed cable types: 21 mm ≤ Ø ≤ 50 mm	**E 120 / EI 60**	**E 120 / EI 30**
All sheathed cable types: 50 mm ≤ Ø ≤ 80 mm	**E 120 / EI 60**	**E 120 / EI 60**
Tied cable bundle: Ø ≤ 100 mm	**E 120 / EI 90**	**EI 90**
All non-sheathed cable types: Ø ≤ 24 mm	**E 120 / EI 60**	**E 120 / EI 30**
Conduits and tubes, made of steel or copper: Ø ≤ 16 mm	**E 120 / EI 45-U/C**	**E 120-U/U**
Conduits and tubes, made of plastic: Ø ≤ 16 mm	**E 120 / EI 45-U/C**	**E 120 / EI 60-U/U**
Cable trays (perforated and non-perforated)	**EI 120**	**E 120 / EI 30**
Cable ladders	**EI 120**	**E 120 / EI 60**

4.3.12 PROMASTOP®-CA coated batt penetration seals used as coaxial cable penetration or mixed penetration seal

Coaxial cables may penetrate the PROMASTOP®-CA coated batt penetration seal.

Covered coaxial cables:

RFS Cellflex low-loss foam dielectric coaxial cables (≤ 1/2" to ≤ 1-5/8")

Additional protection and classification in rigid floor application:

The coaxial cables shall be equipped on both sides of the penetration seal with stone wool (fixed with steel wire, thickness ≥ 0.6 mm):

Coaxial cable	Additional protection (made of non-combustible insulation, Rockwool Klimarock, class A1 acc. to EN 13501-1, density ≥ 42 kg/m³)			***Classification in rigid floor*** *(2x50 mm coated batt)*
≤ 1/2"	min. length 300 mm	Min. thickness 20 mm	Insulation case LI/CI	**EI 120**
≤1-5/8"	min. length 300 mm	Min. thickness 30 mm	Insulation case LI/CI	**EI 120**

Note: The additional protection shall be applied on both sides of the coated batt seal. Fixing shall be done acc. clause 4.3.10. PROMASEAL®-A shall be used to stick the non-combustible insulation on to the surface of the PROMASTOP®-CA coated batt seal.

Additional protection and classification in flexible wall and rigid wall:

The coaxial cables shall be equipped on both sides of the penetration seal with stone wool:

Coaxial cable	Additional protection (made of non-combustible insulation, Rockwool Klimarock, class A1 acc. to EN 13501-1, density ≥ 42 kg/m³))			***Classification in flexible wall and rigid wall*** *(2x50 mm coated batt)*
≤ 1/2"	min. length 300 mm	Min. thickness 20 mm	Insulation case LI/CI	**EI 120**
≤1-5/8"	min. length 300 mm	Min. thickness 30 mm	Insulation case LI/CI	**E 120, EI 90**

Note: The additional protection shall be applied on both sides of the coated batt seal. Fixing shall be done acc. clause 4.3.10. PROMASEAL®-A shall be used to stick the non-combustible insulation on to the surface of the PROMASTOP®-CA coated batt seal.

4.3.13 PROMASTOP®-CA coated batt penetration seals and flexible conduits

Flexible conduits (with and without cables) may penetrate the PROMASTOP®-CA coated batt penetration seal in flexible and rigid wall constructions.

Thickness of coated batt seal: min. 2x 50 mm

The intumescent sealant PROMASEAL®-AG forms a defined annular space around the conduits.
Gussets between the conduits needs to be filled with PROMASEAL®-AG.

Application of PROMASEAL®-AG in wall, on both sides of the coated batt seal.

Conduits:

Suitable standards:	EN 61386 -2-4
Suitable material:	PE

Description	**Diameter (mm)**	**Orientation**	**Annular gap (mm)** **(min. width x min. depth)**	**Classification**
Flexible conduit	Ø ≤ 50	wall	15 x 20	**EI 90-U/U**
Bundle of flex. Conduits, with or without cables (diameter cables Ø ≤ 21)	max. 5x Ø ≤ 50, or overall diameter of the bundle with 125 mm	wall	15 x 20	**E 90-U/U**

4.3.14 PROMASTOP®-CA coated batt penetration seals and flexible conduits with PROMASTOP®-FC MD firestop collar

Flexible conduits (with and without cables) may penetrate the PROMASTOP®-CA coated batt penetration seal in rigid floor constructions.

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 10 mm, width ≤ 26 mm.
Gussets between the conduits needs to be filled with PROMASEAL®-A.
Backfilling with non-combustible stone wool.

Thickness of coated batt seal: min. 2x 50 mm

Application of PROMASTOP®-FC MD:
In floor, on the bottom side of the coated batt seal. Fixed with spiral screws.
Conduits:

Suitable standards:	ME50086-2-4, EN 61386-22
Suitable material:	PE, PVC

Description	Diameter (mm)	Orientation	Classification
Flexible conduits (with or without cables)	Ø ≤ 63	floor	**EI 120-U/U**
Bundle of flex. Conduits, with or without cables (diameter cables Ø ≤ 21)	max. 3x Ø ≤ 40, or overall diameter of the bundle with 90 mm	floor	**EI 120-U/U**

4.3.15 PROMASTOP®-CA coated batt penetration seals and flexible conduits with PROMASTOP®-W firestop wrap

Flexible conduits (with and without cables) may penetrate the PROMASTOP®-CA coated batt penetration seal in rigid floor constructions.

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 10 mm, width ≤ 31 mm.
Gussets between the conduits needs to be filled with PROMASEAL®-A.
Backfilling with non-combustible stone wool.

Thickness of coated batt seal: min. 2x 50 mm

Application of PROMASTOP®-W:
1 layer of PROMASTOP®-W shall be used at least in the bottom side of the coated batt seal.

Conduits:

Suitable standards:	ME50086-2-4, EN 61386-22
Suitable material:	PE, PP, PVC

Description	Diameter (mm)	Orientation	Classification
Flexible conduits (with or without cables)	Ø ≤ 40	floor	**EI 120-U/U**

4.3.16 Plastic pipes in the PROMASTOP®-CA coated batt penetration seal

The firestop collar PROMASTOP®-FC MD shall be used on both sides of the coated batt seal for wall application, or under the bottom side of the coated batt seal for floor application.

The classification of the following sub-clauses is referring to:
The classifications for PE pipes are applicable for pipes acc. to EN 12201-2, EN 1519-1, EN 12666-1, DIN 8074, DIN 8075 and ABS-pipes acc. to EN 1455-1 and SAN+PVC-pipes acc. to EN 1565-1.
The classifications for PVC-U pipes are applicable for pipes acc. to EN 1452-1, EN 1329-1, EN 1453-1, DIN 8061, DIN 8062, EN 1329-1, EN 1453-1 and to PVC-C pipes acc. to EN 1566-1.

The classifications for PP-H, PP-R and PP-C pipes are applicable for pipes acc. to OENORM B 5174-1, DIN 8077, DIN 8078, EN 1451-1 and EN ISO 15494.

4.3.16.1 Flexible wall and rigid wall construction with 2 x 50 mm PROMASTOP®-CA coated batt seal with PROMASTOP®-FC MD firestop collar

PP pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 40 / s 1.8 - Ø 110 / s 6.3	On the seal	**EI 60-U/U**
Flexible w.	≥ 100	Ø 40 / s 1.8 - Ø 110 / s 2.7	On the seal	**EI 120-U/U**
Flexible w.	≥ 100	Ø 160 / s 6.2	On the seal	**EI 30-U/U**

PE pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 40 / s 2.4 - Ø 110 / s 2.7	On the seal	**EI 120-U/U**
Flexible w.	≥ 100	Ø 160 / s 4.0	On the seal	**EI 120-U/U**
Flexible w.	≥ 100	Ø 160 / s 6.2	On the seal	**EI 60-U/U**

PVC pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 40 / s 2.4 - Ø 110 / s 2.7	On the seal	**EI 120-U/U***
Flexible w.	≥ 100	Ø 40 / s 2.4 - Ø 125 / s 5.3	On the seal	**E 120 / EI 90-U/U**

* according to EN 15882-3, Table 5

POLO-KAL XS pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 40 / s 1.8 - Ø 125 / s 3.9	On the seal	**EI 60-U/U**

POLO-KAL 3S pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 75 / s 3.8 - Ø 110 / s 4.8	On the seal	**EI 120-U/U**
Flexible w.	≥ 100	Ø 125 / s 5.3	On the seal	**EI 45-U/U**

POLO-KAL NG pipes				
Compartment	Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
Flexible w.	≥ 100	Ø 40 / s 1.8 - Ø 125 / s 3.9	On the seal	**EI 60-U/U**

4.3.16.2 Rigid floor construction with 2 x 50 mm PROMASTOP®-CA coated batt seal with PROMASTOP®-FC MD firestop collar

PE pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 2.3 - Ø 75 / s 2.3	Under the seal	**EI 120-U/U**
≥ 150	Ø 40 / s 2.3 - Ø 110 / s 2.7	Under the seal	**EI 90-U/U**

PP pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 1.8 - Ø 110 / s 2.7	Under the seal	**EI 90-U/U**
≥ 150	Ø 40 / s 1.8 - Ø 75 / s 2.3	Under the seal	EI 120-U/U

PVC-U pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 2.4 - Ø 110 / s 2.7	Under the seal	**EI 90-U/U***

* according to EN 15882-3, Table 5

Geberit Silent-PP pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 1.8 - Ø 125 / s 3.9	Under the seal	**EI 120-U/U**

Geberit Silent-PRO pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 50 / s 2.7 - Ø 75 / s 3.3	Under the seal	EI 120-U/U

Rehau Raupiano Plus pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 1.8 - Ø 125 / s 3.1	Under the seal	**E 120 / EI 90-U/U**

Dyka Dykasono pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 50 / s 4.0 - Ø 125 / s 5.3	Under the seal	**EI 60-U/U**

Poloplast POLO-KAL NG pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 1.8 - Ø 125 / s 3.9	Under the seal	**E 120 / EI 90-U/U**

Poloplast POLO-KAL 3S pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 75 / s 3.8 - Ø 125 / s 5.3	Under the seal	**EI 120-U/U**

Poloplast POLO-KAL XS pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 2.4 - Ø 125 / s 3.9	Under the seal	**E 120 / EI 90-U/U**

Poloplast POLO-KAL 3S PRO pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 75 / s 3.8 - Ø 110 / s 4.8	Under the seal	**EI 120-U/U**

Pipelife Master3 plus pipes			
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Collar position	Classification
≥ 150	Ø 40 / s 1.8 - Ø 110 / s 3.0	Under the seal	**EI 120-U/U**

4.3.16.3 Rigid floor construction with 2 x 50 mm PROMASTOP®-CA coated batt seal with PROMASTOP®-W firestop wrap for plastic pipes with combustible insulation

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.
Backfilling with non-combustible stone wool.
Specified number of layers of PROMASTOP®-W shall be used at least in the bottom side of the coated batt seal which are combined with 2 brackets "C" of the PROMASTOP®-FC MD in-between the two layers of the coated batt seal at any time.

Specification of insulation	**Details**
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	13 mm
Insulation case	CS
Number of layers of -W:	5

PE pipes (see 4.3.11)				
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation thickness	Wrap position	Classification
≥ 150	Ø 110 / s 2.7	13 mm	Under the seal	**EI 120-U/U**

4.3.17 Rigid floor construction with 2 x 50 mm PROMASTOP®-CA coated batt seal with PROMASTOP®-FC MD firestop collar for plastic aluminium composite pipes with combustible insulation

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 10 mm, width ≤ 42 mm.
Backfilling with non-combustible stone wool.

One PROMASTOP®-FC MD firestop collar shall be placed on the bottom side of the coated batt seal.

Covered types of plastic aluminium composite pipes:

Manufacturer	**Type**	**Composition**
Uponor	Uni Pipe Plus	PE-RT II/Al/PE-RT II
	MLC	PE-RT II/Al/PE-RT II
Henco	Standard	PE-Xc/Al/PE-Xc
Pipelife	Radopress	PE-Xc/Al/PE-Xc
Geberit	Systemrohr ML	PE-RT II/Al/PE-RT II
	Mepla	PE-RT/Al/PE-RT
HakaGerodur	HAKAthen	PE-RT II/Al/PE-RT II

Specification of insulation	**Details**
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	9 – 32 mm (see sub clauses)
Min. total insulation length	500 mm – 1000 mm (see sub clauses)
Insulation case	LS, CS

Uponor Uni Pipe Plus pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 16 / s 2.0	9	500	Under the seal	**EI 120-U/C**
	Ø 16 / s 2.0	32	500		**EI 120-U/C**
≥ 150	Ø 32 / s 3.0	9	1000	Under the seal	**E 90 / EI 60-U/C**
	Ø 32 / s 3.0	32	1000		**EI 120-U/C**
≥ 150	Ø 16 / s 2.0 - Ø 32 / s 3.0	9-32	1000	Under the seal	**E 90 / EI 60-U/C**

Uponor MLC pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 110 / s 10.0	9	1000	Under the seal	**EI 120-U/C**
	Ø 110 / s 10.0	32	1000		**EI 90-U/C**
≥ 150	Ø 110 / s 10.0	9-32	1000	Under the seal	**EI 90-U/C**

Henco Standard pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 16 / s 2.0	9	500	Under the seal	**EI 120-U/C**
	Ø 16 / s 2.0	32	500		**EI 90-U/C**
≥ 150	Ø 63 / s 4.5	9	1000	Under the seal	**E 120 / EI 60-U/C**
	Ø 63 / s 4.5	32	1000		**EI 90-U/C**
≥ 150	Ø 16 / s 2.0 - Ø 63 / s 4.5	9-32	1000	Under the seal	**E 90 / EI 60-U/C**

Geberit Systemrohr ML pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 16 / s 2.0	9	500	Under the seal	**EI 120-U/C**
	Ø 16 / s 2.0	32	500		**EI 120-U/C**
≥ 150	Ø 25 / s 2.5	9	1000	Under the seal	**EI 120-U/C**
	Ø 25 / s 2.5	32	1000		**EI 120-U/C**
≥ 150	Ø 16 / s 2.0 - Ø 25 / s 2.5	9-32	1000	Under the seal	**EI 120-U/C**

Geberit Mepla pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 16 / s 2.25	9	500	Under the seal	**EI 120-U/C**
	Ø 16 / s 2.25	32	500		**EI 120-U/C**
≥ 150	Ø 63 / s 4.5	9	1000	Under the seal	**E 90 / EI 60-U/C**
	Ø 63 / s 4.5	32	1000		**EI 90-U/C**
≥ 150	Ø 16 / s 2.25 - Ø 63 / s 4.5	9-32	1000	Under the seal	**E 90 / EI 60-U/C**

Pipelife Radopress pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 16 / s 2.0	9	500	Under the seal	**EI 120-U/C**
	Ø 16 / s 2.0	32	500		**EI 90-U/C**
≥ 150	Ø 63 / s 4.5	9	1000	Under the seal	**E 120 / EI 60-U/C**
	Ø 63 / s 4.5	32	1000		**E 90 / EI 60-U/C**
≥ 150	Ø 16 / s 2.0 - Ø 63 / s 4.5	9-32	1000	Under the seal	**E 90 / EI 60-U/C**

HakaGerodur HAKAthen pipes					
Compartment thickness (mm)	Dimensions Ø...Diameter (mm) s... pipe wall thickness (mm)	Insulation		Collar position	Classification
		Thickness (mm)	Min. length (mm)		
≥ 150	Ø 14 / s 2.0	9	500	Under the seal	**EI 120-U/C**
	Ø 14 / s 2.0	32	500		**EI 90-U/C**
≥ 150	Ø 63 / s 4.5	9	1000	Under the seal	**EI 90-U/C**
	Ø 63 / s 4.5	32	1000		**EI 90-U/C**
≥ 150	Ø 14 / s 2.0 - Ø 63 / s 4.5	9-32	1000	Under the seal	**EI 90-U/C**

4.3.18 Metal pipes in the PROMASTOP®-CA coated batt penetration seal

The field of application is given for metal pipes with a lower heat conductivity (λ ≤ 58 W/mK) and a melting point at least equal to that of the material tested or greater than the nominal furnace temperature at the required classification period (e.g. stainless steel, cast iron, Ni alloys (NiCr, NiMo and NiCu alloys and Ni).

4.3.18.1 Steel pipes with non-combustible insulation in 2 x 50 mm PROMASTOP®-CA coated batt seal in rigid floor construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

Fixing of the non-combustible insulation with steel wire, thickness ≥ 0,6 mm.

Specification of insulation	**Details**
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. total insulation length	500 mm (pipe Ø ≥ 21.3 mm; s_{min} 2 mm - Ø ≤ 42.4 mm; s_{min} 2.6 mm) 1000 mm (pipe Ø > 42.4 mm; s_{min} 2.6 mm - Ø ≤ 114.3 mm; s_{min} 3.6 mm) 2500 mm (pipe Ø > 114.3 mm; s_{min} 3.6 mm - Ø ≤ 219.1 mm; s_{min} 6.3 mm)
Insulation case	LS or CS

	Floor	**Classification**
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 42.4 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 219.1 mm	**E 120-U/C** **EI 90-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. insulation length (On top and on the bottom of the coated batt seal)	2x 250 mm (pipe Ø ≥ 21.3 mm; s_{min} 2 mm - Ø ≤ 42.4 mm; s_{min} 2.6 mm) 2x 500 mm (pipe Ø > 42.4 mm; s_{min} 2.6 mm - Ø ≤ 114.3 mm; s_{min} 3.6 mm) 2x 1250 mm (pipe Ø > 114.3 mm; s_{min} 3.6 mm - Ø ≤ 219.1 mm; s_{min} 6.3 mm)
Insulation case	LI or CI

	Floor	Classification
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 42.4 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 219.1 mm	**E 120-U/C** **EI 60-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	
Pipe diameter (mm)	> 114.3 mm; - Ø ≤ 219.1 mm	**E 120-U/C** **EI 90-U/C**
Pipe wall thickness (mm)	≥ 3.6 mm	

4.3.18.2 Steel pipes with non-combustible insulation in 2 x 50 mm PROMASTOP®-CA coated batt seal in flexible and rigid wall construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

Fixing of the non-combustible insulation with steel wire, thickness ≥ 0.6 mm.

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. total insulation length	500 mm (pipe Ø ≥ 21.3 mm; s_{min} 2 mm - Ø ≤ 42.4 mm; s_{min} 2.3 mm) 1000 mm (pipe Ø > 42.4 mm; s_{min} 2.3 mm - Ø ≤ 114.3 mm; s_{min} 3.6 mm) 2500 mm (pipe Ø > 114.3 mm; s_{min} 3.6 mm - Ø ≤ 219.1 mm; s_{min} 5.9 mm)
Insulation case	LS or CS

	Flexible and rigid wall	Classification
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 42.4 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 219.1 mm	**E 120-U/C** **EI 60-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. insulation length (On both sides of the coated batt seal)	2x 250 mm (pipe Ø ≥ 21.3 mm; s_{min} 2 mm - Ø ≤ 42.4 mm; s_{min} 2.3 mm) 2x 500 mm (pipe Ø > 42.4 mm; s_{min} 2.3 mm - Ø ≤ 114.3 mm; s_{min} 3.6 mm) 2x 1250 mm (pipe Ø > 114.3 mm; s_{min} 3.6 mm - Ø ≤ 219.1 mm; s_{min} 6.3 mm)
Insulation case	LI or CI

	Flexible and rigid wall	Classification
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 42.4 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	
Pipe diameter (mm)	≥ 21.3 mm; - Ø ≤ 219.1 mm	**E 120-U/C** **EI 90-U/C**
Pipe wall thickness (mm)	≥ 2.0 mm	

4.3.18.3 Copper pipes with non-combustible insulation in 2 x 50 mm PROMASTOP®-CA coated batt seal in flexible and rigid wall construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

Fixing of the non-combustible insulation with steel wire, thickness ≥ 0,6 mm.

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. total insulation length	1000 mm (pipe Ø ≥ 18.0 mm; s_{min} 1 mm - Ø ≤ 42.0 mm; s_{min} 1.5 mm) 2000 mm (pipe Ø > 42.0 mm; s_{min} 1.5 mm - Ø ≤ 88.9 mm; s_{min} 2.0 mm)
Insulation case	LS or CS

	Flexible and rigid wall	Classification
Pipe diameter (mm)	≥ 18.0 mm; - Ø ≤ 42.0 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	
Pipe diameter (mm)	≥ 18.0 mm; - Ø ≤ 88.9 mm	**E 120** **EI 45-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. insulation length (On both sides of the coated batt seal)	2x 500 mm (pipe Ø ≥ 18.0 mm; s_{min} 1 mm - Ø ≤ 42.0 mm; s_{min} 1.5 mm) 2x 1000 mm (pipe Ø > 42.0 mm; s_{min} 1.5 mm - Ø ≤ 88.9 mm; s_{min} 2.0 mm)
Insulation case	LI or CI

	Flexible and rigid wall	Classification
Pipe diameter (mm)	> 18.0 mm; - Ø ≤ 42.0 mm	**EI 120-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	
Pipe diameter (mm)	≥ 18.0 mm; - Ø ≤ 88.9 mm	**E 120** **EI 60-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	

4.3.18.4 Copper pipes with non-combustible insulation in 2 x 50 mm PROMASTOP®-CA coated batt seal in rigid floor construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

Fixing of the non-combustible insulation with steel wire, thickness ≥ 0.6 mm.

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. total insulation length	1000 mm (pipe Ø ≥ 18.0 mm; s_{min} 1 mm - Ø ≤ 42.0 mm; s_{min} 1.5 mm) 2000 mm (pipe Ø > 42.0 mm; s_{min} 1.5 mm - Ø ≤ 88.9 mm; s_{min} 2.0 mm)
Insulation case	LS or CS

	Rigid floor	Classification
Pipe diameter (mm)	≥ 18.0 mm; - Ø ≤ 88.9 mm	**E 120** **EI 60-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	

Specification of insulation	Details
Insulation material	Stone wool
Reaction to fire	A1 acc. EN 13501-1
Suitable manufacturer	Rockwool Klimarock
Density	≥ 42 kg/m³
Insulation thickness	≥ 30 mm
Min. insulation length (On top and on the bottom of the coated batt seal)	2x 500 mm (pipe Ø ≥ 18.0 mm; s_{min} 1 mm - Ø ≤ 42.0 mm; s_{min} 1.5 mm) 2x 1000 mm (pipe Ø > 42.0 mm; s_{min} 1.5 mm - Ø ≤ 88.9 mm; s_{min} 2.0 mm)
Insulation case	LI or CI

	Rigid floor	Classification
Pipe diameter (mm)	18.0 mm	**E 120** **EI 90-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	
Pipe diameter (mm)	> 18.0 mm; - Ø ≤ 42.0 mm	**E 120** **EI 60-U/C**
Pipe wall thickness (mm)	≥ 1.5 mm	
Pipe diameter (mm)	≥ 18.0 mm; - Ø ≤ 88.9 mm	**E 120** **EI 45-U/C**
Pipe wall thickness (mm)	≥ 1.0 mm	

4.3.18.5 Steel pipes with combustible insulation and PROMASTOP®-W in 2 x 50 mm PROMASTOP®-CA coated batt seal in rigid floor construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

1 layer of PROMASTOP®-W shall be used at least in the bottom side of the coated batt seal.

Specification of insulation	Details
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	≥ 9-40 mm, see table below
Insulation case	CS

Dimensions (mm)	Rigid floor	Insulation thickness	Classification
Pipe diameter	21.3 mm	9 mm 32 mm 9 – 32 mm	**EI 120-U/C** **EI 90-U/C** **EI 90-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	42.4 mm	9 mm 32 mm 9 – 32 mm	**E 120 / EI 60-U/C** **E 90 / EI 45-U/C** **E 90 / EI 45-U/C**
Pipe wall thickness	≥ 2.6 mm		
Pipe diameter	114.3 mm	9 mm 40 mm 9 – 40 mm	**E 60 / EI 45-U/C** **EI 60-U/C** **E 60 / EI 45-U/C**
Pipe wall thickness	≥ 3.6 mm		
Pipe diameter	219.1 mm	9 mm 32 mm 9 – 32 mm	**E 60 / EI 45-U/C** **EI 45-U/C** **EI 45-U/C**
Pipe wall thickness	≥ 6.3 mm		
Pipe diameter	≥ 21.3 mm; - Ø ≤ 42.4 mm	9 – 32 mm	**E 90 / EI 45-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	> 42.4 mm; - Ø ≤ 114.3 mm	9 – 32 mm	**E 60 / EI 45-U/C**
Pipe wall thickness	≥ 2.6 mm		
Pipe diameter	≥ 21.3 mm; - Ø ≤ 219.1 mm	9 – 32 mm	**EI 45-U/C**
Pipe wall thickness	≥ 2.0 mm		

4.3.18.6 Steel pipes with combustible insulation and PROMASTOP®-W in 2 x 50 mm PROMASTOP®-CA coated batt seal in flexible and rigid wall construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

1 layer of PROMASTOP®-W shall be used at least on both sides in the coated batt seal.

Specification of insulation	Details
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	≥ 6-40 mm, see table below
Insulation case	CS

Dimensions (mm)	Flexible and rigid wall	Insulation thickness	Classification
Pipe diameter	21.3 mm	6 mm 32 mm 6 – 32 mm	**EI 120-U/C** **E 120 / EI 90-U/C** **E 120 / EI 90-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	42.4 mm	9 mm 32 mm 9 – 32 mm	**E 120 / EI 90-U/C** **EI 120-U/C** **E 120 / EI 90-U/C**
Pipe wall thickness	≥ 2.3 mm		
Pipe diameter	114.3 mm	9 mm 40 mm 9 – 40 mm	**E 60 / EI 30-U/C** **E 120 / EI 90-U/C** **E 60 / EI 30-U/C**
Pipe wall thickness	≥ 3.6 mm		
Pipe diameter	219.1 mm	9 mm 32 mm 9 – 32 mm	**E 120 / EI 30-U/C** **EI 60-U/C** **EI 30-U/C**
Pipe wall thickness	≥ 5.9 mm		
Pipe diameter	≥ 21.3 mm; - Ø ≤ 42.4 mm	9 – 32 mm	**E 120 / EI 90-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	> 42.4 mm; - Ø ≤ 114.3 mm	9 – 32 mm	**E 60 / EI 30-U/C**
Pipe wall thickness	≥ 2.6 mm		
Pipe diameter	≥ 21.3 mm; - Ø ≤ 219.1 mm	9 – 32 mm	**E 60 / EI 30-U/C**
Pipe wall thickness	≥ 2.0 mm		

4.3.18.7 Copper pipes with combustible insulation and PROMASTOP®-W in 2 x 50 mm PROMASTOP®-CA coated batt seal in rigid floor construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

1 layer of PROMASTOP®-W shall be used at least in the bottom side of the coated batt seal.

Specification of insulation	Details
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	≥ 6-40 mm, see table below
Insulation case	CS

Dimensions (mm)	Rigid floor	Insulation thickness	Classification
Pipe diameter	18.0 mm	6 mm 32 mm 6 – 32 mm	**EI 45-U/C** **EI 120-U/C** **EI 45-U/C**
Pipe wall thickness	≥ 1.0 mm		
Pipe diameter	42.0 mm	9 mm 32 mm 9 – 32 mm	**E 120 / EI 30-U/C** **E 120 / EI 90-U/C** **E 120 / EI 30-U/C**
Pipe wall thickness	≥ 1.5 mm		
Pipe diameter	88.9 mm	9 mm 32 mm 9 – 32 mm	**EI 30-U/C** **E 60 / EI 45-U/C** **EI 30-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	≥ 18.0 mm - Ø ≤ 42.0 mm	9 – 32 mm	**EI 45-U/C**
Pipe wall thickness	≥ 1.0 mm		
Pipe diameter	> 42.0 mm; - Ø ≤ 88.9 mm	9 – 32 mm	**EI 30-U/C**
Pipe wall thickness	≥ 2.0 mm		

4.3.18.8 Copper pipes with combustible insulation and PROMASTOP®-W in 2 x 50 mm PROMASTOP®-CA coated batt seal in flexible and rigid wall construction

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 15 mm, width ≤ 15 mm.

Backfilling with non-combustible stone wool.

1 layer of PROMASTOP®-W shall be used at least on both sides in the coated batt seal.

Specification of insulation	Details
Insulation material	Flexible elastomeric foam
Reaction to fire	min. B-s3, d0 or B_L-s3, d0 acc. EN 13501-1
Suitable manufacturer	Armacell Armaflex XG
Insulation thickness	≥ 6-32 mm, see table below
Insulation case	CS

Dimensions (mm)	Flexible and rigid wall	Insulation thickness	Classification
Pipe diameter	18.0 mm	6 mm 32 mm 6 – 32 mm	**E 120 / EI 60-U/C** **EI 120-U/C** **E 120 / EI 60-U/C**
Pipe wall thickness	≥ 1.0 mm		
Pipe diameter	42.0 mm	9 mm 32 mm 9 – 32 mm	**E 120 / EI 45-U/C** **EI 120-U/C** **E 120 / EI 45-U/C**
Pipe wall thickness	≥ 1.5 mm		
Pipe diameter	88.9 mm	9 – 32 mm	**E 120 / EI 45-U/C**
Pipe wall thickness	≥ 2.0 mm		
Pipe diameter	≥ 18.0 mm; - Ø ≤ 42.0 mm	6 – 32 mm	**E 120 / EI 45-U/C**
Pipe wall thickness	≥ 1.0 mm		
Pipe diameter	> 42.0 mm; - Ø ≤ 88.9 mm	9 – 32 mm	**E 120 / EI 45-U/C**
Pipe wall thickness	≥ 1.5 mm		

4.3.19 Clima split pipes in the PROMASTOP®-CA coated batt penetration seal with PROMASTOP®-FC MD firestop collar

In general, clima split pipes are seen as copper pipes with combustible insulation, combined with a condensate tube and cables, used as a bundle which penetrates compartmentation.

Two-sided annular space sealing with PROMASEAL®-A, thickness ≥ 10 mm, width ≤ 16 mm.
Backfilling with non-combustible stone wool.
1 collar of PROMASTOP®-FC MD shall be used at least on the bottom side of the coated batt seal.

Covered types of clima split pipes:

Manufacturer	**Type**
Wieland	Frigotec-plus clima split pipes

Specification copper pipes	**Details**
Pipe diameter	6,35 – 19 mm
Pipe wall thickness	≥ 0,8 mm

Specification of insulation	**Details**
Insulation material	Flexible elastomeric foam, PE based
Reaction to fire	min. E acc. EN 13501-1
Insulation thickness	9 mm
Insulation case	CS

Specification of condensate tube	**Details**
Material	PVC based
Tube diameter	≤ 20 mm
Tube wall thickness	≤ 3,5 mm

Cables acc. CG 1 but diameter of cable ≤ 15 mm.

Bundle made of	**Classification depending on:**		**Overall classification**
2 insulated copper pipes, 2 cables, 1 condensate tube	Insulated copper pipes	EI 120-U/C	**E 120 / EI 90**
	Cables	E 120 / EI 90	
	Condensate tube	E 120 / EI 90-U/U	

4.3.20 Filling of annular space in the PROMASTOP®-CA coated batt penetration seal

Cables, cable trays, cable ladders	Maximum annular space: 5 mm Stone wool backfilling, and covering with PROMASTOP®-CA firestop coating
Coaxial cables	Maximum annular space: 5 mm Stone wool backfilling, and covering with PROMASEAL®-A firestop acrylic sealant, depth ≥ 10 mm
Plastic pipes	Maximum annular space: 15 mm Stone wool backfilling, and covering with PROMASEAL®-A firestop acrylic sealant, depth ≥ 10 mm
Insulated metal pipes	Maximum annular space: 15 mm Stone wool backfilling, and covering with PROMASEAL®-A firestop acrylic sealant, depth ≥ 10 mm
Insulated plastic aluminium composite pipes	Maximum annular space: 42 mm Stone wool backfilling, and covering with PROMASEAL®-A firestop acrylic sealant, depth ≥ 10 mm
Conduits	Maximum annular space: 31 mm Stone wool backfilling, and covering with PROMASEAL®-A firestop acrylic sealant, depth ≥ 10 mm

4.3.21 Fixing material

PROMASTOP®-FC MD collar on PROMASTOP®-CA (2x50 mm) coated batt seal	Spiral screws made of steel, ≥ 8 x 100 mm	
Additional protection (on the coaxial cables)	Using of steel wire (minimum thickness 0.6 mm)	
PROMASEAL®-A	To stick the additional protection on the surface of the coated batt seal	
Offset PROMASTOP®-CA coated batt seals	1st layer	Appropriate fixing material (depending on the supporting construction), fixing distance ≤ 250 mm
	2nd layer	Appropriate fixing material (depending on the supporting construction), fixing distance ≤ 250 mm or at least spiral screws made of steel, ≥ 8 x 100 mm into the 1st layer
Non-combustible insulation	Steel wire, min. thickness 0.6 mm	

4.3.22 Distances

Within the PROMASTOP®-CA coated batt seal:

Rigid floor	Distance in mm
Cable trays, cable ladders – aperture	≥ 34
Cable trays – cable trays	≥ 0
Cables – cable trays	≥ 60
Cables – aperture	≥ 55
Cable trays, cable ladders – non-combustible insulation	≥ 90
Cable trays, cable ladders – PROMASTOP®-FC MD	≥ 80
Non-combustible insulation – aperture	≥ 60
PROMASTOP®-W – PROMASTOP®-W	≥ 0
Non-combustible insulation – PROMASTOP®-FC MD	≥ 60
Non-combustible insulation – non-combustible insulation	≥ 0

Any other distance: ≥ 100 mm

Within the PROMASTOP®-CA coated batt seal:

Flexible and rigid wall	Distance in mm
Cable trays, cable ladders – aperture	≥ 50
Cable trays – cable trays	≥ 0
Cables – cable trays	≥ 40
Cables – aperture	≥ 55
Non-combustible insulation – aperture	≥ 10
Aperture – PROMASTOP®-FC MD	≥ 0
PROMASTOP®-FC MD – PROMASTOP®-FC MD	≥ 30
Non-combustible insulation – Non-combustible insulation	≥ 25

Any other distance: ≥ 100 mm

Supporting distances:

Flexible wall, rigid wall	Distance in mm
Cables, cable bundles	≤ 350
Cable trays, cable ladders	≤ 350
Coaxial cables	≤ 400
Plastic pipes	≤ 400
Metal pipes	≤ 300
Conduits	≤ 300

Supporting distances:

Rigid floor **-** On the top side of the floor construction	Distance in mm
Cables, cable bundles	≤ 350
Cable trays, cable ladders	≤ 350
Coaxial cables	≤ 545
Plastic pipes	≤ 545
Metal pipes	≤ 350
Conduits	≤ 350

5 LIMITATIONS

This classification is valid unless the conditions, under which it was issued, have been changed (i.e., until the materials used, the composition or design of the product or the technical regulations relating to the product change).

The sponsor may request the issuing authority to review the influence of changes on the classification validity.

This classification document does not represent type approval or certification of the product.

Prepared by:	*Reviewed by:*	*Approved by:*
Jiří VANĚK	Magdaléna CHARVÁTOVÁ	Jan TRIPES
Fire Testing Laboratory		

PAVUS, a.s.
Čtvrť J. Hybeše 879
391 81 Veselí nad Lužnicí
IČ: 60193174; DIČ: CZ60193174

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PAVUS FIRE TESTING INSTITUTE
PAVUS, a.s.

Promat

Austria
Etex Building Performance GmbH

St.-Peter-Straße 25
4021 Linz
T +43 732 69 12-0
F +43 732 69 12-37 40
E info.at@etexgroup.com
www.promat.at

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