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Fire Stop Products



Fire Stop Products

1- Soudal Firecryl FR

2- Soudal Soudafoam FR

3- Rockwool Firepro 50mm Ablative Coated

4- Fiber Cement Board

*5- Compact Laminate With Flame Retardant For External Use ,
Thickness Range 6 to 8 mm*

1- Soudal Firecryl FR

Firecryl FR

*Firecryl FR is a fire retardant sealant based on an acrylic dispersion with plasto-elastic properties.

***Fire stopping sealant for fire stopping of linear gap seals**

***Firecryl FR is a fire-resistant, smoke-tight, with heat load intumescent plasto-elastic sealant based on acrylic dispersion.**

***For fire compartmentation and/or fire protection or fire performance**

Properties

- Prevents the passage of fire and smoke.
- Intumesces when exposed to temperatures higher than 120°C.
- Can be painted over after curing
- Very easy to apply
- Permanently elastic after curing
- Colourfast and waterproof after curing
- Very good adhesion on many porous materials

Applications

- Fire-resistant and smoke-tight indoor applications.
- As part of the 'Soudal Fire Range' assortment for penetration seals and joints.
- Sealing of fire retardant joints in walls and ceiling.
- Fire-retardant filling of cracks in concrete and plasterwork.
- Applications where the sealant needs to be overpainted with water based paints and varnishes.





1- Soudal Firecryl FR

Certificate

STATE OF PALESTINE
Palestine Standards Institution
Technical Services Dept.



دولة فلسطين
مؤسسة المواصفات والمقاييس الفلسطينية
دائرة الخدمات الفنية

شهادة فحص مطابقة رقم : C106/S/MH-2021

التاريخ : 13/7/2021

تفاصيل الفحص :

| | |
|--------------------------------------|------------------|
| رقم الطلب : 129/MH | أمر قبض : 17970 |
| اسم طالب الفحص : شركة الرائد للديكور | العنوان : طولكرم |
| هاتف : 092695122 | فاكس : 092695123 |

تفاصيل العينة :

| اسم المنتج | مواصفات المنتج | اسم الشركة الصانعة | العنوان |
|--------------------|--|--------------------|---------|
| Soudal Firecryl FR | One-component fire-retardant sealant based on water acrylic dispersion with plasto-elastic properties. | Soudal nv. | Belgium |

هدف الفحص :

التحقق من مطابقة المنتج أعلاه لمعاملات الأداء والخصائص بحسب المواصفات الواردة في تقرير الأداء الأوروبي:
ETA 13/0335, 07-08-2017

نتيجة الفحص :

تم التحقق من المنتج أعلاه ووجد بأنه مطابق لمتطلبات المواصفات ذات العلاقة بحسب النتائج الواردة في تقرير الأداء الأوروبي:
ETA 13/0335, 07-08-2017

هذه الشهادة صالحة حتى: 2022/7/12

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ملاحظة: تم إصدار شهادة المطابقة هذه وفقاً لشهادة المطابقة الأوروبية رقم 0749-CPR-BCI-262-219-13/0335-01
تفاصيل خصائص مقاومة الحريق للمنتج بحسب ما هو مذكور في الملحق الثالث (Annex III) صفحة 7-8 من تقرير الأداء الأوروبي.

الفاحص : UBAtc (تقرير فحص ETA 13/0335).

المدقق : م. معاذ داود معاز راور

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1772/2021



1- Soudal Firecryl FR

UBAItc
Union belge pour l'Agrément technique de la construction

member of EOTA and UEAItc

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EUROPEAN TECHNICAL ASSESSMENT

UBAItc Assessment Operator:
Belgian Construction Certification Association
Rue d'Afion 53 - 1040 Brussels
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Technical Assessment Body Issuing the European Technical Assessment: UBAItc.
UBAItc has been designated according to Article 29 of Regulation (EU) No 305/2011
and is member of EOTA (European Organisation for Technical Assessment)

Trade name of the construction product:

Product family to which the construction product belongs:

Manufacturer:

Manufacturing plant(s):

Website:

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

This version replaces:

This European Technical Assessment contains:

Firecryl FR

Fire stopping sealant for fire stopping of linear gap seals

Soudal NV
Everdongenlaan 18 - 20
B-2300 TURNHOUT
Belgium

Soudal NV
Plant 2 - Schietstandlaan 2
B-2300 TURNHOUT
Belgium

www.soudal.com

European Assessment Document (EAD) :
Guideline for European technical approval, ETAG 026-3,
used as European Assessment Document (EAD)

ETA 13/0335 issued on 2013/06/27

9 pages, with 3 annexes which form an integral part of this European Technical Assessment

**European Organisation
for Technical Assessment**

1. Linear joints in rigid walls made of concrete or brick

1.1 Firecryl FR with Soudafoam FR as specified in Annex II as backfilling material

| Thickness of the wall (mm) | Density of the wall (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|----------------------------|--|--------------------------|----------------------------|---|---------------------------------|
| 115 | 600 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Firecryl FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 00 to 20 |
| 115 | 600 | Horizontal | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 3 mm Firecryl FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 00 to 30 |
| 115 | 600 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR | EI 120 - V - X - F - W 00 to 30 |
| 115 | 600 | Vertical | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 3 mm Firecryl FR and is further filled with Soudafoam FR | EI 120 - V - X - F - W 00 to 40 |
| 115 | 600 | Vertical | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 3 mm Firecryl FR and is further filled with Soudafoam FR | EI 60 - V - X - F - W 00 to 50 |
| 200 | 550 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR | EI 240 - V - X - W 00 to 25 |
| 200 | 550 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 15 mm with Firecryl FR and is further filled with Soudafoam FR | EI 240 - V - X - W 00 to 15 |

(*) The unexposed side is the side that is on the opposite side of the fire.

1.2 Firecryl FR with a PE-backer / PU-backer rod as specified in Annex II as backfilling material

| Thickness of the wall (mm) | Density of the wall (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|----------------------------|--|--------------------------|----------------------------|--|---|
| 200 | 550 | Vertical | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 20 mm Firecryl FR with a PU backer rod | EI 240 - V - X - W 00 to 20 |
| 100 | 550 | Vertical | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 20 mm Firecryl FR with a PU backer rod | EI 180 - V - X - W 00 to 21 E 240 - V - X - W 00 to 21 |
| 100 | 550 | Vertical | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 10 mm Firecryl FR with a PU backer rod | EI 180 - V - X - W 00 to 11 E 240 - V - X - W 00 to 11 |
| 115 | 600 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm and is further provided with a compressed PU backer rod | EI 60 - V - X - F - W 00 to 20 E 90 - V - X - F - W 00 to 20 |
| 200 | 550 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 15 mm and is further provided with a compressed PE backer rod | EI 240 - V - X - W 00 to 15 |

(*) The unexposed side is the side that is on the opposite side of the fire.

2. Linear joints in concrete floor constructions

2.1 Firecryl FR with Soudafoam FR as specified in Annex II as backfilling material

| Thickness of the floor (mm) | Density of the floor (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|-----------------------------|---|--------------------------|----------------------------|---|-------------------------------|
| 150 | 600 | Horizontal | Symmetrical | Both the exposed and the unexposed (*) sides are filled with 3 mm Firecryl FR and is further filled with Soudafoam FR | EI 120 - H - X - F W 00 to 50 |
| 150 | 600 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR | EI 120 - H - X - F W 00 to 30 |

(*) The unexposed side is the side that is on the opposite side of the fire.

2.2 Firecryl FR with a PE-backer / PU-backer rod as specified in Annex II as backfilling material

| Thickness of the floor (mm) | Density of the floor (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|-----------------------------|---|--------------------------|----------------------------|--|-------------------------------|
| 150 | 600 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm and is further provided with a compressed PU backer rod | EI 120 - H - X - F W 00 to 20 |

(*) The unexposed side is the side that is on the opposite side of the fire.



2- Soudal Soudafoam FR

Fire stopping sealant for fire stopping of linear gap seals

Product description

Soudafoam FR is a one-component, self-expanding, ready to use polyurethane foam. Soudafoam FR is a PU-foam with fire retardant characteristics according to the European standard EN 1366-4.

Properties

- Fire resistant in a joint (EN 1366-4)
- High filling capacity
- Good adhesion on all surfaces (except PE, PP and PTFE).
- High insulation value, thermal and acoustic
- Very good bonding properties.
- Gas- and flame proof up to 240 minutes in a joint
- Water resistant (not watertight)
- Not UV-resistant

Applications

- Installation of fireproof doors and windows.
- Sealing of fire retardant joints in walls and ceiling.
- As part of the 'Soudal Fire Range' assortment for penetration seals and joints.
- Sealing of all openings in roof constructions.
- Apply of an acoustic baffle
- All foam applications in static joints.





2- Soudal Soudafoam FR

Certificate

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Palestine Standards Institution
Technical Services Dept.



دولة فلسطين
مؤسسة المواصفات والمقاييس الفلسطينية
دائرة الخدمات الفنية

شهادة فحص مطابقة رقم : C105/S/MH-2021

التاريخ : 13/7/2021

تفاصيل الفحص :

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| رقم الطلب : 128/MH | أمر قبض : 17970 |
| اسم طالب الفحص : شركة الرائد للديكور | العنوان : طولكرم |
| هاتف : 092695122 | فاكس : 092695123 |

تفاصيل العينة :

| اسم المنتج | مواصفات المنتج | اسم الشركة الصانعة | العنوان |
|---------------------|--|--------------------|---------|
| Soudal Soudafoam FR | One-component self-expanding fire-retardant polyurethane foam of linear gaps seals | Soudal nv. | Belgium |

هدف الفحص :

التحقق من مطابقة المنتج أعلاه لمعاملات الأداء والخصائص بحسب المواصفات الواردة في تقرير الأداء الأوروبي:
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ETA 13/0280, 07-08-2017

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تفاصيل خصائص مقاومة الحريق للمنتج بحسب ما هو مذكور في الملحق الثالث (Annex III) صفحة 8-9 من تقرير الأداء الأوروبي.

الفاحص : UBAtc (تقرير فحص ETA 13/0280).

المدقق : م. معاذ داود

م. عدنان الحسن
رئيس قسم الميكانيك والهيدروليك



م. أحمد الأحمد
مدير دائرة الخدمات الفنية


1772/2021



2- Soudal Soudafoam FR


UBA_{tc}
Union belge pour l'Agrément technique de la construction
member of EOTA and UEA_{tc}

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Date of issue: 2017-08-07




EUROPEAN TECHNICAL ASSESSMENT

UBA_{tc} Assessment Operator:
Belgian Construction Certification Association
Rue d'Arlon 33 - 1040 Brussels
www.bcca.be - info@bcca.be



Technical Assessment Body issuing the European Technical Assessment: UBA_{tc}.
UBA_{tc} has been designated according to Article 29 of Regulation (EU) No 305/2011
and is member of EOTA (European Organisation for Technical Assessment)

| | |
|--|--|
| Trade name of the construction product: | Soudafoam FR |
| Product family to which the construction product belongs: | Fire stopping sealant for fire stopping of linear gap seals |
| Manufacturer: | SODAL NV Everdongenlaan 18 - 20 B-2300 TURNHOUT Belgium |
| Manufacturing plant(s): | SODAL NV Plant 2 – Schietstandlaan 2 B-2300 TURNHOUT Belgium |
| Website: | www.soudal.com |
| This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of: | European Assessment Document (EAD) : Guideline for European technical approval, ETAG 026-3, used as European Assessment Document (EAD) |
| This version replaces: | ETA 13/0280 issued on 2013/06/27 |
| This European Technical Assessment contains: | 9 pages, with 3 annexes which form an integral part of this European Technical Assessment |



**European Organisation
for Technical Assessment**

Resistance to fire

Soudafoam FR has been tested in accordance with EN 1366-4:2006, installed in linear joint seals in rigid walls and floors.

Based upon these test results and the field of direct application specified in EN 1366-4:2006, Soudafoam FR has been classified in accordance with EN 13501-2:2007 (see Annex III).

Annex III: Resistance to fire classification of linear joint seals made with Soudafoam FR

1. Linear joints in rigid wall constructions

1.1 Soudafoam FR

| Thickness of the wall (mm) | Density (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|----------------------------|------------------------------|--------------------------|----------------------------|--|-------------------------------|
| 200 | 550 | Vertical | Symmetrical | The joint is filled completely with Soudafoam FR | EI240 – V – X – F – W 5 to 10 |
| 200 | 550 | Vertical | Symmetrical | The joint is filled completely with Soudafoam FR | EI120 – V – X – F – W 5 to 30 |
| 200 | 550 | Vertical | Symmetrical | The joint is filled completely with Soudafoam FR | EI90 – V – X – F – W 5 to 41 |
| 100 | 550 | Vertical | Symmetrical | The joint is filled completely with Soudafoam FR | EI120 – V – X – F – W 5 to 11 |
| 100 | 550 | Vertical | Symmetrical | The joint is filled completely with Soudafoam FR | EI45 – V – X – F – W 5 to 31 |



2- Soudal Soudafoam FR

1.2 Soudafoam FR in combination with sealants

| Thickness of the wall (mm) | Density (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|----------------------------|------------------------------|--------------------------|----------------------------|---|--|
| 200 | 550 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Soudaseal FR and the exposed side is filled to a depth of 30 mm with Firecyl FR and is further filled with Soudafoam FR | EI 240-V-X-W 5 to 40 |
| 200 | 550 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Soudaseal FR and is further filled with Soudafoam FR | EI 240-V-X-W 5 to 30 |
| 200 | 550 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 25 mm with Firecyl FR and is further filled with Soudafoam FR | EI 240-V-X-W 5 to 25 |
| 115 | 600 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Firesilicone B1 FR and is further filled with Soudafoam FR | EI 120 - V - X - F - W 5 to 40 |
| 115 | 600 | Vertical | Symmetrical | Both the exposed and the unexposed (*) side are filled throughout a depth of 20 mm with Firesilicone B1 FR and is further filled with Soudafoam FR | EI 60 / EI 120 - V - X - F - W 5 to 60 |
| 115 | 600 | Vertical | Asymmetrical | The unexposed (*) side is filled throughout a depth of 25 mm with Firecyl FR and is further filled with Soudafoam FR | EI 120 - V - X - F - W 5 to 30 |
| 115 | 600 | Vertical | Symmetrical | Both the exposed and the unexposed (*) side are filled throughout a depth of 3 mm with Firecyl FR and is further filled with Soudafoam FR | EI 120 - V - X - F - W 5 to 40 |
| 200 | 550 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 15 mm with Firecyl FR and is further filled with Soudafoam FR | EI 240-T-X-W 5 to 15 |
| 200 | 550 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Soudaseal FR and is further filled with Soudafoam FR | EI 240-T-X-W 5 to 25 |
| 115 | 600 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Soudaseal FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 5 to 25 |

| Thickness of the wall (mm) | Density (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|----------------------------|------------------------------|--------------------------|----------------------------|--|--------------------------------|
| 115 | 600 | Horizontal | Symmetrical | Both the exposed and the unexposed (*) side are filled throughout a depth of 20 mm with Soudaseal FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 5 to 25 |
| 115 | 600 | Horizontal | Asymmetrical | The unexposed (*) side is filled throughout a depth of 20 mm with Firecyl FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 5 to 20 |
| 115 | 600 | Horizontal | Symmetrical | Both the exposed and the unexposed (*) side are filled throughout a depth of 3 mm with Firecyl FR and is further filled with Soudafoam FR | EI 120 - T - X - F - W 5 to 50 |

(*) The unexposed side is the side that is on the opposite side of the fire.

2. Linear joints in floor constructions

2.1 Soudafoam FR

| Thickness of the floor (mm) | Density (kg/m ³) | Orientation of the joint | Symmetrical / Asymmetrical | Composition of the joint seal | Classification |
|-----------------------------|------------------------------|--------------------------|----------------------------|--|--------------------------------|
| 150 | 600 | Horizontal | Symmetrical | The joint is filled completely with Soudafoam FR | EI 120 - H - X - F - W 5 to 20 |
| 150 | 600 | Horizontal | Symmetrical | The joint is filled completely with Soudafoam FR | EI 90 - H - X - F - W 5 to 30 |

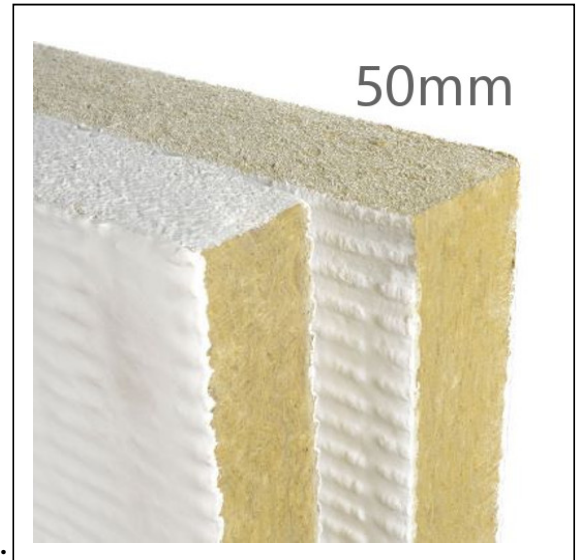


3- Rockwool Firepro 50mm Ablative Coated

FIREPRO® 50MM ABLATIVE COATED BATT

ROCKWOOL 50mm Ablative Coated Batt provides fire stopping solutions in walls and floors, reinstating the fire resistance.

50mm Ablative coated batt is also tested for acoustic and air leakage performance.



Description

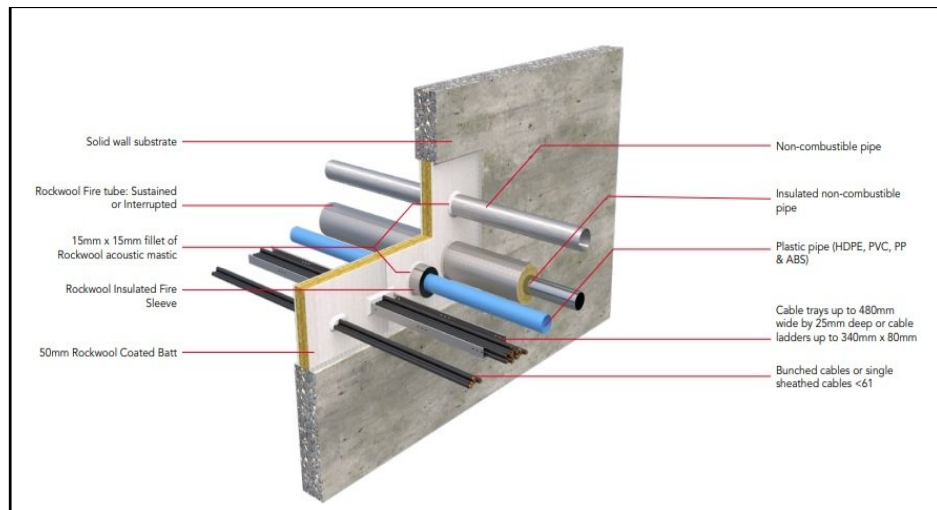
The ROCKWOOL Ablative Coated Batt comprises a high density stone wool core, pre coated on both sides with our high performance ablative coating.

Ablative Coated Batt has been comprehensively tested as part of the ROCKWOOL FirePro range of fire protection products, specifically for use in service penetrations, head of wall and other void seals.

Applications

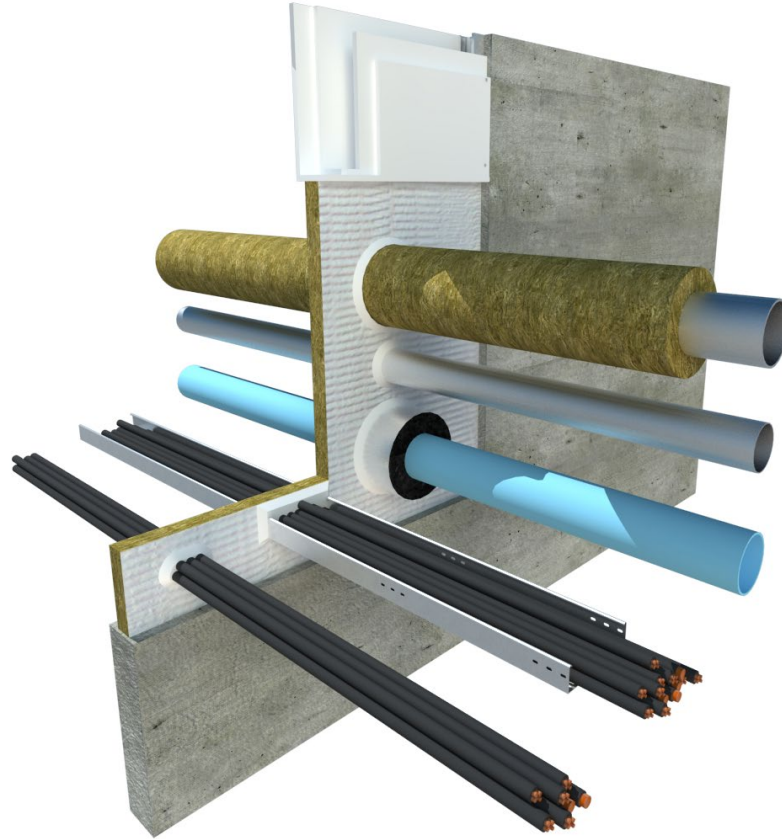
- Multiple substrates including; Solid walls and floors, flexible walls
- Multi-service penetrations
- Head of wall
- Blank seals
- Face fixed applications
- Large framed service voids

For a fully comprehensive list of applications, please refer to the appropriate ROCKWOOL standard details available at www.rockwool.co.uk or contact the ROCKWOOL Technical Solutions Team.





3- Rockwool Firepro 50mm Ablative Coated



Advantages

- Excellent fire resistance from a single thickness batt
- Comprehensively tested as part of the FirePro suite of solutions
- Suitable for sealing wall and floor voids containing most commonly used services and substrates
- Can be used as a blank seal and a head of wall seal
- Lightweight and simple to install
- Tested for air tightness, providing an additional smoke and acoustic seal



2hr Fire resistance



Acoustic comfort



Sustainable materials



Durability



3- Rockwool Firepro 50mm Ablative Coated

Certificate



3- Rockwool Firepro 50mm Ablative Coated

| Cable trays & ladders through double 50/60mm batt wall seals - Minimum separation | | | | | | |
|---|----------------|--------------------------|--|-----------------------|----------------|--|
| Service | Aperture size | Aperture edge separation | Service separation | Fire rating (minutes) | | |
| | | | | E (integrity) | I (insulation) | |
| Ladders ≤350mm wide | 1200mm x 600mm | 0mm | 50mm between trays / 0mm between ladders | 120 | 90 | |
| Trays ≤500mm wide | 1200mm x 600mm | 0mm | | 120 | 60 | |
| Cables ≤80mm | 1200mm x 600mm | 0mm | | 120 | *Variable | |
| Bunches 100mm Dia. | 1200mm x 600mm | 0mm | | 120 | 90 | |
| Metal Conduits ≤16mm | 1200mm x 600mm | 0mm | | 120 | 60 | |
| Plastic Conduits ≤16mm | 1200mm x 600mm | 0mm | | 120 | 120 | |

*Please contact ROCKWOOL Technical with cable size and type

| Non-combustible pipes with Rocklap H&V lagging through double 50/60mm batt wall seals - Minimum separation | | | | | | | | |
|--|----------------|-------------------------|---------------|--------------------------|--------------------|-----------------------|-----------------------|----------------|
| Pipe Type | Pipe Dia. (mm) | H&V insulation thk (mm) | Aperture size | Aperture edge separation | Service separation | Service configuration | Fire rating (minutes) | |
| | | | | | | | E (integrity) | I (insulation) |
| Copper | 40 - 108 | 25 | 1200 x 1200 | 0mm | 0mm | Cluster & Linear | 90 | 90 |
| Steel | 40 - 168 | 25 | 1200 x 1200 | 0mm | 0mm | Cluster & Linear | 90 | 90 |
| Copper | 40 - 108 | 40 | 1200 x 1200 | 0mm | 0mm | Cluster & Linear | 120 | 120 |
| Steel | 40 - 168 | 40 | 1200 x 1200 | 0mm | 0mm | Cluster & Linear | 120 | 120 |
| Steel | 168 - 220 | 25 | 1200 x 1200 | 0mm | 100mm | Single | 120 | 120 |
| Copper & steel pipes under cable tray / ladders | 40 - 108 | 25 | 1200 x 600 | 50mm | 10mm | Single | 120 | 120 |

| Wrap on a roll in double layer ablative batt wall seals | | | | | | |
|---|---------------------|---------------------|--------------------------|--------------------|-----------------------|----------------|
| Wrap on a roll application | Pipe type | Pipe diameter | Aperture edge separation | Service separation | Fire rating (minutes) | |
| | | | | | E (integrity) | I (insulation) |
| Combustible pipes with wrap in pattress batts | PVCu / PP / HDPE | 200mm | 50mm | 0mm | 60 | 60 |
| Insulated pipes with wrap in pattress batts | Refer to SD-190-RDW | Refer to SD-190-RDW | 128mm | 50mm | Refer to SD-190-RDW | |
| Insulated pipes with wrap in batts | Refer to SD-191-RDW | Refer to SD-191-RDW | 128mm | 50mm | Refer to SD-191-RDW | |

| FireStop Compound Floor Seal | | | | | | |
|------------------------------------|--|---------------------|--------------------------|--------------------------------|-----------------------|----------------|
| Seal | Penetration | Pipe diameter | Aperture edge separation | Service separation | Fire rating (minutes) | |
| | | | | | E (integrity) | I (insulation) |
| Min. 100mm thick FireStop compound | Non-combustible pipe lagged with H&V pipe section 40mm | Refer to SD-132-RDW | 0mm | 50mm | Refer to SD-132-RDW | |
| | Non-combustible pipe un-lagged | Refer to SD-132-RDW | 0mm | 50mm | Refer to SD-132-RDW | |
| | Cable tray | 500mm wide | 0mm | 150mm between trays (vertical) | 120 | 120 |
| | Combustible pipe with pipe wrap | ≤168mm | 50mm | 50mm | Refer to SD-132-RDW | |

| Cable trays & ladders through single 50/60mm batt wall seals - Minimum separation | | | | | | |
|---|----------------|--------------------------|--------------------|-----------------------|----------------|--|
| Service | Aperture size | Aperture edge separation | Service separation | Fire rating (minutes) | | |
| | | | | E (integrity) | I (insulation) | |
| Ladders ≤350mm wide | 1200mm x 600mm | 0mm | 110mm | 120 | 90 | |
| Trays ≤500mm wide | 1200mm x 600mm | 0mm | 75mm | 120 | 60 | |
| Cables ≤80mm | 1200mm x 600mm | 0mm | 110mm | 120 | *Variable | |
| Bunches 100mm Dia. | 1200mm x 600mm | 0mm | 75mm | 120 | 90 | |
| Metal Conduits ≤16mm | 1200mm x 600mm | 0mm | 110mm | 120 | 60 | |
| Plastic Conduits ≤16mm | 1200mm x 600mm | 0mm | 75mm | 120 | 120 | |

| High expansion sealant in double 50mm ablative batt wall seals | | | | | | | | | |
|--|---------------|------------|---------|------------------|--------|---------------|----------------|----------|----------|
| Wall | Pipe diameter | Pipe type | Annular | Seal depth | Backer | E (integrity) | I (insulation) | Spacings | |
| | | | | | | | | Aperture | Services |
| 100mm Drywall | 40-63mm | PVC & HDPE | 20mm | 25mm (each face) | PE Rod | 120 | 120 | 30mm | 30mm |

| High expansion sealant in double 50mm ablative batt wall seals | | | | | | |
|--|-------------------|----------------------|--------------------------|--------------------|-----------------------|----------------|
| Seal | Penetration | Pipe diameter / size | Aperture edge separation | Service separation | Fire rating (minutes) | |
| | | | | | E (integrity) | I (insulation) |
| Double 50mm ablative batt | Combustible pipes | Refer to SD-176-RDW | 110mm | 140mm | 120 | 120 |
| | Cable tray | ≤500mm x 50mm | 75mm | - | 120 | 120 |



4- Fiber Cement Board



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*5- Compact Laminate With Flame Retardant For External Use ,
Thickness Range 6 to 8 mm*



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