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LINEAR JOINT APPLICATIONS

SOUDASEAL FIRESTOP MS & GORILLA FIRESIL SEALANT



LINEAR JOINT APPLICATIONS GORILLA FIRECRYL - WALL PENETRATION TESTS

WHY USE OUR FIRE RATED RANGE?

Our comprehensive range of fire rated solutions have been extensively tested on their ability to delay combustion, provide protection and allow valuable time to exit premises when fire strikes.

The information in this booklet covers common applications where fire resistance is required. For more specific applications or should you require further technical assistance call us on 0800 TECSPEC.



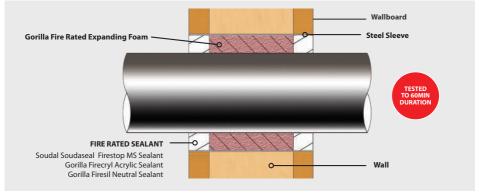
What is a Fire Rated product?

A fire-resistance rating typically means the duration for which a passive fire protection system can withstand a standard fire resistance test. This can be quantified simply as a measure of time, or it may entail a host of other criteria, involving other evidence of functionality or fitness for purpose.



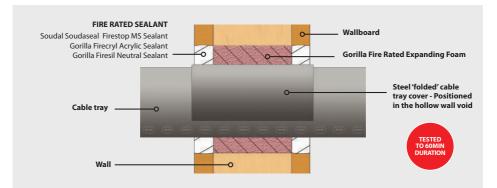


FIRE RATED SOLUTIONS TYPICAL APPLICATIONS

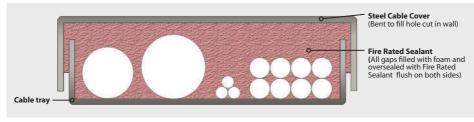


FIRE RATED PIPE PENETRATION

What is a pipe penetration seal? Pipe penetration seals are used to allow tubes or pipes to expand thermally, while they penetrate the shell of a boiler or similar pressure casing without damaging the surrounding shell or pressure casing. NOTE : Metal penetrations do not require sealant but for aesthetics Firecryl may be required.



FIRE RATED CABLE TRAY PENETRATION



SECTIONS THROUGH PENETRATIONS

PRODUCTS

Gorilla Fire Rated Expanding Foam

FEATURES

Fire retardant up to 240 minutes (refer to test data), efficient seal against smoke and gas, excellent adhesion to many building materials, acoustic rating 57Db, insulating properties (R value 3.12) high bond strength, very good filling characteristics, excellent stability, no shrink and limited post expansion. Can be painted after full cure.

USES & SUBSTRATES

Fire retardant installation of windows and door frames, fire and smoke retardant sealing of connections between partition walls, ceilings and floors. Filling of cavities, sealing of all openings in roof constructions, sealing of cable and pipe penetrations. Creating of sound proof-screen, bonding of insulation materials, application of sound deadening layers and improving thermal insulation in cold store areas.

Colour	Size	Code
Light Red	Click & Fix 750ml	20160
Light Red	Aerosol 750ml	20169





Soudal Soudaseal Firestop MS Adhesive Sealant

FEATURES

Soudal Soudaseal Firestop MS Sealant is a high-quality single-component joint sealant with high adhesive strength and excellent elasticity. It is based on MS Polymers and is chemically neutral and fully elastic. It has a very high UV and marine resistance, while being very easy to tool and finish.

USES & SUBSTRATES

For use in high-movement joints in construction, automotive, marine and aerospace areas where a tough flexible rubber with good fire retardant qualities is required.

Colour	Size	Code	
Grey	600ml	56219	





PRODUCTS

Gorilla Firecryl Acrylic Sealant

FEATURES

Gorilla Firecryl is a one component acoustically rated, highly qualified, emulsion based sealant for fire retarding constructions. After application the product forms a tough plastic rubber fire rated seal by evaporation of water. Intumescent at temperatures above 250°C.

USES & SUBSTRATES

Ideal for interior joints with low or medium movement, and has excellent adhesion to all porous surfaces, with a fire rating of up to 4 hours (refer to full test results).



Colour	Size	Code
White	310ml	20060
Grey	600ml	21427



Gorilla Firesil Silicone Sealant

FEATURES

Gorilla Firesil Silicone is a high-quality neutral-cure single-component elastic sealant based on silicones that conforms to the DIN4102 B1 standard for fire retardancy and has a fire rating of up to 4 hours in certain joint configurations (EN 1366 part 4 – NN713.020 – BS 476/20). Ideal for linear building and glazing joints that require a fire rating and for fire rated expansion joints.

USES & SUBSTRATES

Suitable for both interior and exterior applications, with excellent adhesion to a wide range of building and glazing materials.





PRODUCT CHARACTERISICS

		<u>_</u>		
	Gorilla Fire Rated Expanding Foam 750ml Aerosol	Gorilla Fire Rated Expanding Foam 750ml Click & Fix	Soudal Soudaseal Firestop MS Sealant 600ml	
	Code: 20169	Code: 20160	Code: 56219	
Application Areas	Insulation of window and door frames, sealing of connection joints, filling of cavities, cable and pipe penetrations, etc.	Insulation of window and door frames, sealing of connection joints, filling of cavities, cable and pipe penetrations, etc.	Ideal for expansion joints and connection joints in prefabricated, high rise and all usual construction applications.	
Fire Rating* See test results	Up to 240 minutes * †	Up to 240 minutes * †	Up to 240 minutes * †	
Temp. Resistance (cured)	-40°C to +90°C	-40°C to +90°C	-40°C to +90°C	
Acoustic Rating	Max 75Db*	Max 75Db*	N/A	
Interior/Exterior (*when painted)	Interior/Exterior *	Interior/Exterior *	Interior/Exterior *	
Paintable	Paintable	Paintable	Paintable	
UV Resistant	N/A	N/A	UV Resistant	
Waterproof	Waterproof	Waterproof	Waterproof	
Movement	Low movement	Low movement	+/-25%	
No Shrink	No shrink	No shrink	No shrink	
Flexible/Elongation	N/A	N/A	Flexible	
Curing Rate (*at 20°C)	30mm bead/2hrs	30mm bead/2hrs	2mm bead/24hrs	
Skin Formation (*at 20°C)	10 minutes	10 minutes	30 minutes	
Tack Free Time	25 minutes	25 minutes	10-15 minutes	
Tensile Strength	>17N/cm² (DIN 53427)	>17N/cm² (DIN 53427)	N/A	
Solvent Free	Solvent free	Solvent free	Solvent free	
No Odour	No odour	No odour	No odour	
Storage (*from production date)	12 months *	12 months *	12 months *	
Colour	Red	Red	Grey	
VOC	28% / 189gr/Lt	28% / 189gr/Lt	<2% / 28gr/Lt	
은 Aerosol 750ml	Aerosol 750ml	N/A	N/A	
Click & Fix 750ml	N/A	Click & Fix 750ml	N/A	
Sausage 600ml	N/A	N/A	Sausage 600ml	
Approvals	Approvals – Linear Joints, Meets AS1530.4-2014, AS4072.1-2005 EWFA Report No. 23751-02 EWFA Report No. 45717-02 EWFA Report No. 45717-02 † Applies to linear joint applications.	 Approvals – Linear Joints, Meels AS 1950 4-2014, AS4072,1-2005 EWFA Report No. 2575-162 EWFA Report No. 45717-02 Approvals – Penetrations, Meels AS 1530,4-1997, AS4072,1-1992 BRANZ FP3271 Applies to linear joint applications. 	Approvals – Linear Joints, Meets AS1530.4- 2014, AS4072.1-2005 EWFA Report No. 23751-02 EWFA Report No. 35717-02 EWFA Report No. 35717-02 EWFA Report No. 35712700.1 Approvals – Penetrations, Meets AS1530.4- 1997 AS4072.1-1992 BRANZ FP3271 Applies to linear joint applications.	

PRODUCT CHARACTERISICS



+ Applies to linear joint applications.

LINEAR JOINT APPLICATIONS AERATED CONCRETE

Product Tested	Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal Required	FRL
Gorilla Fire Rated Expanding Foam	200	41	200	None	Both faces	90/90
SUDAL	200	10	200	None	Both faces	240/240
GORILLA up to IT.	200	30	200	None	Both faces	120/120
FIRE RATED Expanding Foam	100	11	100	None	Both faces	90/90

TEST RESULTS FIRE DOORS

Product Tested	Type of fire door	Benor/ATG Certificate	Completion Date & Location
Gorilla Fire Rated Expanding Foam	Blimex	98/2229	1998 Ghent
	Bruyzeel	00/2186	2000 Ghent
SOUDAL	De Coene	02/1639	2002 Ghent
BURILLA UP TO IT.	Theuma	98/2274	1998 Ghent
	General for fire doors	01/2887	2001 Ghent
Foam C	Vimimetal metal doorframe	N/A	2003 Ghent

· Testing was carried out within the testing parameters for fire rated doors at that time.

LINEAR JOINT APPLICATIONS

Product Tested	Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal Required	FRL	
Soudal Soudaseal	Aerated Concr	ete					
Firestop MS Sealant	200	15	15	20mm PEF	Exposed	240/240	
	200	40	20	Gorilla Fire Rated Foam	Exposed	240/240	
	200	30	20	Gorilla Fire Rated Foam	Exposed	240/240	
	200	30	20	25mm PEF	Exposed	240/240	
	200	25	20	Gorilla Fire Rated Foam	Exposed	240/240	
	Gypsum Wall	(13mm Fire R	ated Gypsun	n - Both sides)			
	90	20	13	None	Exposed	60/60	
	Gypsum Wall	(26mm Fire R	ated Gypsun	n - Both sides)			
	120	20	26	None	Exposed	120/120	
Masonry, Blockwork, AAC walls 75mm<							
Constraints -	75	20	13	None	Exposed	60/60	
	Masonry, Bloc	kwork, AAC v	valls 100mm	I<			
S.	100	20	26	None	Exposed	120/120	

Product Tested	Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal Required	FRL
Gorilla Firesil Neutral Sealant	Aerated Cond	rete				
	200	11	10	15mm PEF	Both faces	240/240
SOUDAL	200	31	20	40mm PEF	Both faces	240/180
GORILLA ur to ft.	100	33	20	40mm PEF	Both faces	180/90
Firesil Noutral Salicone	100	11	10	15mm PEF	Both faces	180/120
	200	10	10	15mm PEF	Both faces	240/240

LINEAR JOINT APPLICATIONS

Product Tested	Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal Required	FRL				
	Aerated Concrete									
Gorilla Firecryl Acryllic Sealant	200	20	20	25mm PEF	Both faces	240/240				
	200	25	25	Gorilla Fire Rated Foam	Exposed	240/240				
SOUDAL	200	15	15	20mm PEF	Exposed	240/240				
GORILLA UPTOTA	100	21	20	25mm PEF	Both faces	240/180				
Acrylic Sealant	100	11	10	15mm PEF	Both faces	240/180				
	Gypsum Wall	(13mm Fire R	ated Gypsun	n - Both sides)						
6	90	20	13	None	Exposed	60/60				
	Gypsum Wall	(26mm Fire R	ated Gypsun	n - Both sides)						
 ¹ - Holeson to a solitori ¹ - Marine and Arrythic ¹ - National and Arrythic ¹ - National and Arrythic ¹ - National Arry	120	20	26	None	Exposed	120/120				
31071	Masonry, Blockwork, AAC walls 75mm<									
	75	20	13	None	Exposed	60/60				
	Masonry, Blockwork, AAC walls 100mm<									
	100	20	26	None	Exposed	120/120				

TEST RESULTS WALL PENETRATION

Product Tested	Type of Penetration	Wall Thickness (mm)	Integrity	Heat Insulation	Completion Date & Location
Gorilla Firecryl Acryllic Sealant	160mm steel tube	200	>180 min	>180 min	2004 CSI Italy
SOUTAL	20mm steel pipe	200	>180 min	>180 min	2004 CSI Italy
CORRECT OF TO IT.	20mm steel pipe	100	>180 min	>180 min	2004 CSI Italy
	20mm steel pipe	100	>180 min	>180 min	2004 CSI Italy

APPROVALS

General: EN 1366-4 - Test Report 9297, University of Ghent UK: BS476: Part20: 1987 - WFRC N° C113610 UK: BS476: Part20: 1987 - WFRC N° 139271 (sealants) France: Rapport d'Essai RS00-067 (only Firestop 1) France: Rapport d'Essai RS03-007 (sealants) Holland: NEN 6069: 1997 - TNO Rapport 2000-CVB-R00703 Belgium: NBN 713.020 - Test Report 9297 - University of Ghent Australia: WRFA 45716 & 45717 to AS1530.4 and AS4072.1 Italy: CSI 1125 RF

All sealants were tested double-sided. Refer to the technical data and full test results on www.soudal.co.nz.

EXPERTS IN SEALANTS, FOAMS & ADHESIVES



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