

Code	Description	Size	Colour
20160	Soudal Soudafoam C&F FR HY	750ml	Light Red

## 1. Description

Soudal Soudafoam C&F FR HY Foam is a one-component, self expanding, ready to use polyurethane foam. It has been fitted with the unique patented Click & Fix adaptor system for maximum comfort in use. It contains propellants, which are completely harmless to the ozone layer. It has a fire rating of up to 360 minutes on linear joint applications. (Ghent test report 9279). CFC Free Propellants.

Soudal Soudafoam C&F FR HY Foam will not react with plastic. See statement of suitability for more information : [http://www.holdfast.co.nz/resources/pdf/products/20160\\_Statement\\_Of\\_Suitability.pdf](http://www.holdfast.co.nz/resources/pdf/products/20160_Statement_Of_Suitability.pdf)

## 2. Characteristic

- Fire retardant up to 360 minutes on linear joint applications
- Efficient seal against smoke and gas
- Excellent adhesion on most substrates (exempt Teflon, PE and PP)
- High thermal and acoustical insulation
- High bond strength
- Very good filling characteristics
- Excellent stability: No shrink or post expansion
- Can be painted after full cure
- Fitted with the Click&Fix system for ultimate ease in application.

## 3. Technical Data

<b>Colour:</b>	Light red
<b>Base:</b>	Polyurethane
<b>Consistency:</b>	Stable Foam Thixotropic
<b>Curing System:</b>	Moisture-cure
<b>Skin formation: (20°C/65 % R.H.)</b>	Ca 9-10 minutes
<b>Cutting Time:</b>	55 minutes
<b>Density:</b>	Ca. 25kg/m3
<b>Sound Insulation:</b>	62dB
<b>Box Yield:</b>	750ml yields ca. 43l of foam
<b>Joint Yield:</b>	750ml yields ca. 24m of foam
<b>Shrinkage after Curing: (FEICA TM 1004)</b>	<8%
<b>Post-Expansion</b>	None
<b>Compressive Strength:</b>	Ca. 52 kPa
<b>Shear Strength:</b>	Ca. 47 kPa
<b>Cellular Structure</b>	Ca. 70% closed cells
<b>Temperature resistance</b>	-40°C till +90°C (cured)

\*This varies according to ambient conditions such as temperature, humidity, substrate etc

## H1 insulation R-Value Calculations based on thickness of Gorilla Expanding Foam Range

Product	mW/m. K (TDS)	Thickness mm									
		50	60	70	80	90	100	125	140	200	220
Gorilla PRO Expanding Foam Aerosol	29.70	1.68	2.02	2.36	2.69	3.03	3.37	4.21	4.71	6.73	7.41
Gorilla PRO Expanding Foam "CnF"	32.00	1.56	1.88	2.19	2.50	2.81	3.13	3.91	4.38	6.25	6.88
Gorilla FLEXI Expanding Foam	35.00	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29
Gorilla SMART Expanding Foam	37.00	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Gorilla MS Foam	37.00	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Gorilla FR Expanding Foam	30.20	1.66	1.99	2.32	2.65	2.98	3.31	4.14	4.64	6.62	7.28
Gorilla FR Expanding Foam Aerosol	34.00	1.47	1.76	2.06	2.35	2.65	2.94	3.68	4.12	5.88	6.47
Gorilla One Shot Foam	35.40	1.41	1.69	1.98	2.26	2.54	2.82	3.53	3.95	5.65	6.21

### 4. Applications

- Fire retardant installation of window 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
- Improving thermal insulation in cold store areas.
- Not UV Resistant

### 5. Packaging

Click & Fix can 750ml (net content)

### 6. Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

### 7. Building Product Information

**Manufactured By** Soudal NV  
**Distributed By** Soudal Ltd

#### Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.1 (c) 5 years
- Clause C3 Fire Affecting Areas Beyond the Fire Source. Performance clauses C3.1, C3.2, C3.3
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

#### Contribution to compliance With NZBC

Performance B2.3.1 (b) 15 years and (c) 5 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Soudal product technical information. [soudal.co.nz](http://soudal.co.nz). Soudal maintains management and production records within its ISO9001:2015 Quality Management System.

Performance C3.1, C3.2, C3.3: This product has been fire tested in various combinations of sealed joints and /or penetrations with different dimensions and different building components. It contributes to meeting the requirements of C3 only when used in these tested combinations. All fire-rated joints must be designed and specified by a registered fire engineer. For more information, such as test certificates, refer to [soudal.co.nz](http://soudal.co.nz).

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's product installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Product Technical Data sheet and product Safety Data Sheet [soudal.co.nz](http://soudal.co.nz) for further information if required.

## 8. Application Instructions

**Method:** Shake the aerosol can for at least 20 seconds. Turn the gun on the adapter. Moisten surfaces with a water sprayer prior to application. Fill holes and cavities for 65%, as the foam will expand. Repeat shaking regularly during application. If you have to work in layers, repeat moistening after each layer. Cured foam can only be removed mechanically. Working temperature 5°C to 40°C. (20°C - 25°C recommended).

### Remarks

- Work in layers and repeat moistening after each layer
- Cured PU-foam must be protected from UV-radiation by painting or applying a top layer of sealant (silicone, MS Polymer, acrylic and PU-sealant)
- Respect the cleaning and storage instructions enclosed in the Click&Fix Foam Gun Box
- As some timber treatments contain wax it is recommended that the surface of these timbers is activated with Surface Activator before application of adhesive.

### PVC Cable Penetrations

PVC Pipe penetrations – fill complete cavity with Soudal Fire Rated Expanding Foam. Once cured rebate back 15mm of cured Gorilla Firestop and overfill with #20060/21427 Soudal Firecyl intumescent gap filler.

### Approvals

to AS1530.4 and AS4072.1

- EWFA Report No. 23751-02
- EWFA Report No. 45717-02
- BRANZ Report: FAR 2005
- BRANZ Report: FAR 2330 Penetrations and closures in fire rated wall systems
- Various applications with fire doors

#### Linier Joints – Vertical & Horizontal – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	30	200	None	Both Faces	-/120/120
200	10	200	None	Both Faces	-/240/240

#### Linier Joints – Vertical – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	11	200	None	Both Faces	-/180/180
200	41	200	None	Both Faces	-/90/90
100	11	100	None	Both Faces	-/90/90

## 9. Health and Safety Recommendation

- Apply the usual industrial hygiene
- Wear gloves and safety goggles
- Remove cured foam by mechanical means only, never burn away
- Please refer to the SDS for more detailed information.

### **Remark**

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email [info@soudal.co.nz](mailto:info@soudal.co.nz).***

**Last Updated:** 14 February 2025

Supplier contact details:	Soudal Ltd	Freephone: 0800 70 10 80
	134 Kohia Drive	Phone: (07) 847 5540
	Horotiu	
	Hamilton 3288	Email: <a href="mailto:info@soudal.co.nz">info@soudal.co.nz</a>
	New Zealand	Website: <a href="http://www.soudal.co.nz">www.soudal.co.nz</a>