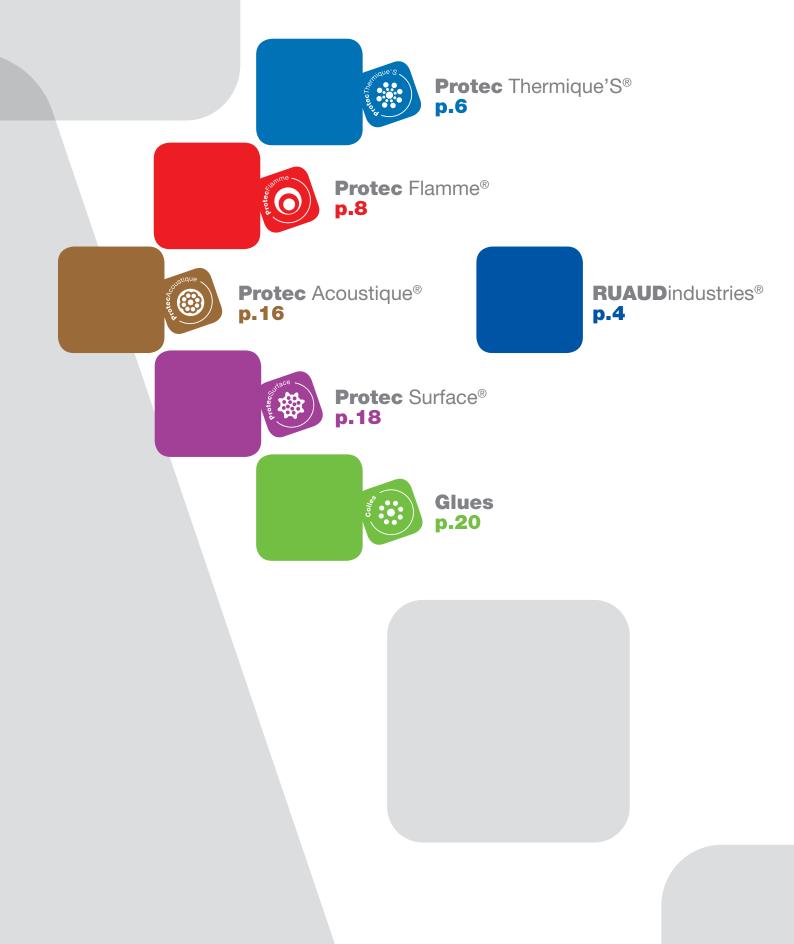




SI

With facilities on the cutting edge of technology, With Tacilities on the cutting euge of technology, Ruaud Industries® has been for more than 40 years Ruaud industries has been for more than 40 year a leading specialist in the production of spray-on Active in research and development, we have created (flocked) insulating materials. Active in research and development, we have creat our own laboratory for the constant improvement They are developed, optimized, and tested in our spraying room, then manufactured in our of our products. state-of-the-art robotized factory. We have subjected our products to testing by We have subjected our products to testing by CSTB- and CEBTP-approved laboratories under the USTB- and UEBTP-approved laborationes under the New European standards (CE label), with as result the new European standards (CE label), with a for accurate New European standards (VE label), with as result the Validation of new test results for acoustic correction, valuation or new test results for acoustic correction thermal insulation, and passive fire protection We act in a spirit of preserving the environment, and all of our products have been low-biopersistence and an of our products have been low-plopersistence as an increasing 2000. This approach comes naturally to us as an entitie member of equarator of equarator of equarators for the member of equarators of the member of the memb on many substrates. Since 2000. This approach comes haw any to us as an active member of several professional bodies, among there as the chill ste Our sales team and engineers, attentive to your needs, take pride in their ability to device an appropriate our sales team and engineers, attentive to your ne take pride in their ability to devise an appropriate them as the SNI, etc. solution to any spray-on insulation problem in a very short time.







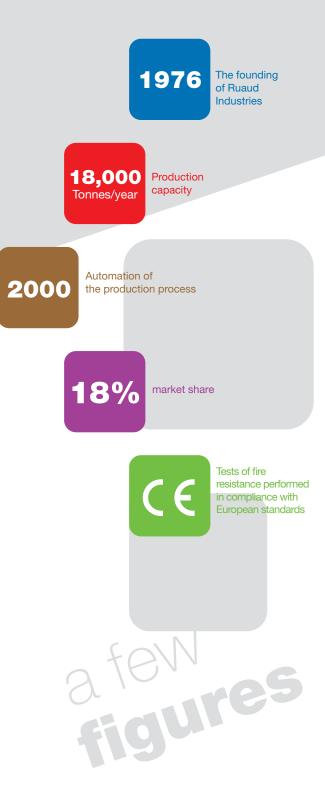
The wet spraying of mineral wool was first employed in France in 1975. The regulation of its application has been steadily improved through a DTU (building standard) of which the first version was published in 1989 (DTU 27-1). A QUALIBAT qualification (7142-7143) has contributed since 1994 to recognition of companies specializing in sprayed application.

The producers of our basic raw material achieved fundamental progress in improving the safety of rock wools at the end of the 1990s. We have chosen to use only mineral binders, which produce no emanations during the service life of the product (Directive 97/69 CE).

Our sprayed insulating materials can be used to achieve compliance with the regulations in force concerning energy savings (RT 2012) and passive fire protection (Fire safety regulations and fire safety construction rules). They also have remarkable acoustic correction properties.

Our products can be applied on many different substrates: concrete floors and structures, light beam and slab floors, composite slabs with structural trays, wooden floors, steel structures, etc. The placement technique makes it possible to treat hard-to-reach places, structures that are not flat, and surfaces of which the relief is deep or complex. The surfacing matches the contour of the substrate, creating an unbroken insulating jacket without thermal bridges.

The properties of our insulating materials are useful in many settings: multiple dwellings, parking garages, arcades, soffits of balconies, auditoriums, recording studios, discotheques, multipurpose halls, sports halls, swimming pools, exhibition rooms, media libraries, hospitals, schools, dining halls, stations, hotels, shopping malls, stores, shops, office buildings, high-rise buildings, warehouses, industrial buildings.









protec Thermique'S® Protec Thermique'S® is a spray-on insulating coating. Shermique & Applications • Thermal insulation: Useful thermal conductivity = 0.039W/m.K • Accustic correction It takes the form of a light fluffy substance. Applications • Fire resistance on concrete structure • Acoustic correction Protec Thermique'S® is made up of rock wool, mineral hydraulic binders, and a dust subpression agent CHARACTERISTICS • Voluminal mass: 150Kg/m³ ±15% Protec Thermique's is asues we wee. Protec Thermique's is made only from wool compliant with directive 07/60 CE flow highereigtence, product not classified as carcinogenia Protec Inermique's Is made only from wool compliant with directive 97/69 CE (low biopersistence; product not classified as carcinogenic). COMPOSITION Finished appearance: Stabilized flat Protec Thermique'S® is asbestos-free. Colour: Greyish white and a dust suppression agent. surface, veined appearance • Fireproof: Euroclass A1 Rot-proof, resistant to rodents • PH: 11.5 Protec Thermique'S® is applied using a specific spraying Protec Thermique's is applied using a specific spraying machine for fibrous mixtures. Application is in accordance with the good practices defined in the DTLL 27.1 and vermin Stable over time Does not crack Protec Thermique's Mark NECC During the initial entring stage PLACEMENT good practices defined in the DTU 27.1. **Protec Thermique: 5°** must not be applied at temperature below +5°C or above 45°C. During the initial setting stage Protec Thermique'S® must not be subjected to vibrations. The dation above the tellowe between we were the tellowe between we the tellowe between we then the tellowe between the tellowere terms and the tellowere terms are the tellowere terms and the tellowere terms are the tellowere terms are terms and the tellowere terms are terms and terms are terms are terms and terms are Protec Thermique's" must not be subjected to vibrations. The drying stage that follows lasts approximately 4 to 6 weeks, depending on the thickness and atmospheric conditions the arying stage that tollows lasts approximately 4 to 6 we depending on the thickness and atmospheric conditions. ADVANTAGES (4 days). Protec Thermique'S[®] is packaged in 25-kg bags, on pallets of 24 bags, or 600kg (Dimensions' 0.80 x 1.20 x 2.30m) No thermal bridges Sound material PACKAGING AND STORAGE • All bags are identified by their date and time of production, • Storage life: 12 months from the date of production. Storage away from the elements. FDES (Environmental and Sanitary Declaration): Compliant with standard EN 15804+A1 -

> Z.I. de la Croix Saint-Nicolas - 18 rue Gustave Eiffel - 94510 La Queue-en-Brie Tel. : +33 (0)1 45 76 72 26 - Fax : +33 (0)1 45 76 42 34 - contact@ruaud.com www.ruaud.com

NF EN 15804/CN

6

RUAUDindustries[®]



Protec Thermique'S[®]





Thermal resistance of Protec Thermique'S®

versus thickness sprayed (Insulation only)

Thermal resistance R 2,05 2,30 2,55 2,80 3,05 3,30 3,55 3,80 4,10 4,35 4,60 4,85 5,10 5,35 5,60 5,85 6,15	-	Thickness Protec Thermique'S® (in mm)	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
		Thermal resistance R	2,05	2,30	2,55	2,80	3,05	3,30	3,55	3,80	4,10	4,35	4,60	4,85	5,10	5,35	5,60	5,85	6,15

Certificate ACERMI N° 12/146/766

Thickness Protec Thermique'S®

(in mm) to be sprayed in order to obtain the required λ Concrete = 2,3 W/m.K U_{wall} in the case of a reinforced concrete slab giving onto a room that is not heated and not open.

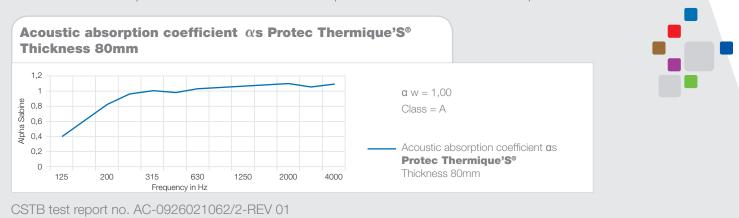
 $R_{si} (0,17) + R_{se} (0,17) = 0,34 \text{ m}^2 \text{ .K/W}$ λ Protec Thermique'S = 0,039 W/m.K

Thickness of slab in mm		110	140	170	200	230
Thermal resistance Concrete slab	U	0,047	0,060	0,073	0,086	0,100
	0,18	202	201	201	200	200
	0,20	180	179	179	178	178
	0,22	162	162	161	161	160
	0,24	148	147	147	146	145
	0,26	135	134	134	133	133
	0,28	124	124	123	123	122
	0,30	115	114	114	113	113
J in W/m2.K	0,32	107	106	106	105	105
	0,34	100	99	99	98	98
	0,36	93	93	92	92	91
	0,38	88	87	87	86	85
	0,40	82	82	81	81	80
	0,42	78	77	77	76	76
	0,44	74	73	73	72	71
	0,46	70	69	69	68	68
	0,48	66	66	65	65	64

Certificate ACERMI Nº 12/146/766

Fire resistance properties of P	rotec Thermique'S®	
Protec Thermique'S®	Concrete slab, 140 mm Coating on steel, 20 mm	Concrete girder
83mm	REI 360 minutes (fire-stop rating 6 hours)	REI 270 minutes (fire-stop rating 4 hours 30)

CSTB classification report no. RS-10-008 / CSTB test report no. RS10-008 / CSTB test report no. RS10-007









on Concrete and masonry elements



Thickness of **Protec Flamme®** to be applied for fire protection on a concrete slab and on a concrete girder. **EC Certificate of conformity 0679-CPR-0747 ETE - 21/1097**

Reference documents: NF-EN-1992.2.1 (Eurocode 2) CSTB test report no. RS-09-002 / RS-09-003 / RS-09-004 / RS-09-005 CSTB classification report no. RS-09-156



Concrete Slab and Girder:

		Fire resistance class								
Initial c	oating of rebars = 15mm	REI								
			90 min (CF 1h30)	120 min (CF 2h)	180 min (CF 3h)	240 min (CF 4h)				
Mini	mum required slab thickness	80	100	120	150	175				
Concrete slab	Thickness PROTEC FLAMME [®] in mm	17	17	17	24	28				
Minimum girder width		120	150	200	240	280				
Concrete Girder	Concrete Girder Thickness PROTEC FLAMME® in mm		15	19	45	55				

Prestressed Co	oncrete Slab and Girder:								
		Fire resistance class REI							
Initial c	oating of rebars = 15mm								
	-	60 min (CF 1h)	90 min (CF 1h30)	120 min (CF 2h)	180 min (CF 3h)	240 min (CF 4h)			
Mini	mum required slab thickness	80	100	120	150	175			
Prestressed Concrete Slab	Thickness PROTEC FLAMME [®] in mm	17	17	17	33	37			
	Minimum girder width	120	150	200	240	280			
Prestressed concrete girder	Thickness PROTEC FLAMME [®] in mm		23	32	57	66			

Conditions of validity: (limits of applicability)

- Valid for all concrete slabs (walls) exposed to fire on only one side in a horizontal (vertical) position.
- Voluminal mass of the concrete between 1,963 and 2,629kg/m³.

Beam-and-block floors (hollow or solid) and other substrates: Get in touch with us.





Protec Flamme®

on Steel structure



Critical temperature 570°C: for continuous girders

Conditions of validity:

- Spraying of PROTEC FLAMME[®] on 4 sides
 Section factor between (50 and 450 m⁻¹)
- Galvanized steel

• Steel painted with Alkyd- or Epoxy-based corrosion-proofing paint

Reference documents: NF-EN-1993-1-2 (Eurocode 3) - NF-EN-1992-1-2/NA (Eurocode 3).

EC Certificate of conformity 0679-CPR-0747

ETE - 21/1097

Classification report RS-09-133/Test report RS-09-133.

Thickness of PROTEC FLAMME[®] to be sprayed on metallic structures according to their section factors and the fire resistance class to be achieved:

Critical temp. 570°C - Treatment of 4 sides

		Profiles of	the metallic	structures		Thickness of PROTEC FLAMME® in mm						
Section factor (m ⁻¹)	IPE	IPN	HEA	HEB	UAP	R 30 (SF 30)	R 60 (SF 1h)	R 90 (SF 1h30)	R 120 (SF 2h)	R 180 (SF 3h)		
400-450	80	80				20	45	65	85	-		
375-400	100					20	40	60	80	-		
360-375						20	40	60	80	-		
330-360	140/120	100				15	40	60	80	-		
320-330						15	35	55	75	-		
300-320	160	120			80	15	35	55	75	-		
280-300	180				100	15	35	55	75	-		
260-280	200	140	120/100		130	15	35	50	70	-		
250-260	220	160	140			15	30	50	70	-		
240-250						15	30	50	65	-		
225-240	270/240	180	180/160		175/150	15	30	45	65	-		
210-225	300	200	200	100	200	15	30	45	65	-		
200-210				120	220	15	25	45	60	-		
185-200	360/330	220	220	140	250	15	25	40	60	-		
175-185		240	240		270	15	25	40	55	-		
165-175	400	260	260	160		15	25	40	55	85		
160-165	450		280		300	15	25	35	50	80		
150-160		280	300	180		15	20	35	50	80		
145-150	500	300		200		15	20	35	50	75		
140-145	550	320	320			15	20	35	45	75		
130-140		340	340	240/220		15	20	30	45	75		
125-130	600		360	260		15	20	30	45	70		
120-125		360	400	280		15	20	30	40	70		
115-120		380		300		15	15	30	40	65		
110-115		400	450			15	15	25	40	65		
105-110		425	500	340/320		15	15	25	40	60		
95-105		475/450	600/550	400/360		15	15	25	35	60		
90-95		500		450		15	15	25	35	55		
85-90				600/500		15	15	25	30	55		
75-85		600/550				15	15	20	30	50		
70-75						15	15	20	30	45		
60-70						15	15	20	25	45		
50-60						15	15	15	25	35		





on Steel structure





Critical temperature 570°C: for continuous girders

Conditions of validity:

- Spraying of PROTEC FLAMME[®] on 3 sides
- Section factor between (50 and 450 m⁻¹)
- Galvanized steel

• Steel painted with Alkyd- or Epoxy-based corrosion-proofing paint

Reference documents: NF-EN-1993-1-2 (Eurocode 3) - NF-EN-1992-1-2/NA (Eurocode 3).

EC Certificate of conformity 0679-CPR-0747

ETE - 21/1097

Classification report RS-09-133/Test report RS-09-133.

Thickness of PROTEC FLAMME® to be sprayed on metallic structures according to their section factors and the fire resistance class to be achieved:

Critical temp. 570°C - Treatment of 3 sides

		Profiles of	the metallic	structures		Thickness of PROTEC FLAMME® in mm						
Section factor (m ⁻¹)	IPE	IPN	HEA	HEB	UAP	R 30 (SF 30)	R 60 (SF 1h)	R 90 (SF 1h30)	R 120 (SF 2h)	R 180 (SF 3h)		
400-450						20	45	65	85	-		
375-400						20	40	60	80	-		
360-375	80					20	40	60	80	-		
330-360	100	80				15	40	60	80	-		
320-330						15	35	55	75	-		
300-320	120	100				15	35	55	75	-		
280-300	140					15	35	55	75	-		
260-280	160	120			80	15	35	50	70	-		
250-260	180				100	15	30	50	70	-		
240-250						15	30	50	65	-		
225-240	200	140	120/100		130	15	30	45	65	-		
210-225	220	160	140		150	15	30	45	65	-		
200-210	240		180/160		175	15	25	45	60	-		
185-200	300/270	180			200	15	25	40	60	-		
175-185		200	200	100	220	15	25	40	55	-		
165-175	330	220	220	120	250	15	25	40	55	85		
160-165	360	240			270	15	25	35	50	80		
150-160	400		240	140	300	15	20	35	50	80		
145-150		260	260			15	20	35	50	75		
140-145	450					15	20	35	45	75		
130-140	500	300/280	280	180/160		15	20	30	45	75		
125-130			300			15	20	30	45	70		
120-125	550	320		200		15	20	30	40	70		
115-120	600	340	320	220		15	15	30	40	65		
110-115			340			15	15	25	40	65		
105-110		360	360	240		15	15	25	40	60		
95-105		400/380	450/400	300/260		15	15	25	35	60		
90-95		425	550/500	320		15	15	25	35	55		
85-90		450	600	360/340		15	15	25	30	55		
75-85		550/475		550/400		15	15	20	30	50		
70-75				600		15	15	20	30	45		
60-70		600				15	15	20	25	45		
50-60						15	15	15	25	35		







on Steel structure



Critical temperature 500°C:

for elements loaded in compression or compression and bending Conditions of validity:

Conditions of validity:

- Spraying of PROTEC FLAMME® on 4 sides
- Section factor between (50 and 450 m⁻¹)
- Galvanized steel

· Steel painted with Alkyd- or Epoxy-based corrosion-proofing paint

Reference documents: NF-EN-1993-1-2 (Eurocode 3) - NF-EN-1992-1-2/NA (Eurocode 3).

EC Certificate of conformity 0679-CPR-0747

ETE - 21/1097

Classification report RS-09-133/Test report RS-09-133.

Thickness of PROTEC FLAMME[®] to be sprayed on metallic structures according to their section factors and the fire resistance class to be achieved:

Critical temp. 500°C - Treatment of 4 sides

		Profiles of	the metallic	structures		Thickness of PROTEC FLAMME® in mm						
Section factor (m ⁻¹)	IPE	IPN	HEA	HEB	UAP	R 30 (SF 30)	R 60 (SF 1h)	R 90 (SF 1h30)	R 120 (SF 2h)	R 180 (SF 3h)		
400-450	80	80				25	50	75	-	-		
375-400	100					20	45	70	-	-		
360-375						20	45	65	85	-		
330-360	140/120	100				20	45	65	85	-		
320-330						20	40	65	85	-		
300-320	160	120			80	20	40	60	80	-		
280-300	180				100	20	40	60	80	-		
260-280	200	140	120/100		130	15	40	60	80	-		
250-260	220	160	140			15	35	55	75	-		
240-250						15	35	55	75	-		
225-240	270/240	180	180/160		175/150	15	35	55	70	-		
210-225	300	200	200	100	200	15	35	50	70	-		
200-210				120	220	15	30	50	70	-		
185-200	360/330	220	220	140	250	15	30	50	65	-		
175-185		240	240		270	15	30	45	60	-		
165-175	400	260	260	160		15	25	45	60	-		
160-165	450		280		300	15	25	40	60	-		
150-160		280	300	180		15	25	40	55	-		
145-150	500	300		200		15	25	40	55	85		
140-145	550	320	320			15	25	40	55	85		
130-140		340	340	240/220		15	25	35	50	80		
125-130	600		360	260		15	20	35	50	80		
120-125		360	400	280		15	20	35	50	75		
115-120		380		300		15	20	35	45	75		
110-115		400	450			15	20	30	45	75		
105-110		425	500	340/320		15	20	30	45	70		
95-105		475/450	600/550	400/360		15	20	30	40	65		
90-95		500		450		15	15	25	40	65		
85-90				600/500		15	15	25	35	65		
75-85		600/550				15	15	25	35	60		
70-75						15	15	25	30	55		
60-70						15	15	20	30	50		
50-60						15	15	20	25	45		





on Steel structure





Critical temperature 500°C:

for elements loaded in compression or compression and bending Conditions of validity:

- Spraying of PROTEC FLAMME[®] on 3 sides
 Section factor between (50 and 450 m⁻¹)
- Galvanized steel

• Steel painted with Alkyd- or Epoxy-based corrosion-proofing paint

Reference documents: NF-EN-1993-1-2 (Eurocode 3) - NF-EN-1992-1-2/NA (Eurocode 3).

EC Certificate of conformity 0679-CPR-0747

ETE - 21/1097

Classification report RS-09-133/Test report RS-09-133.

Thickness of PROTEC FLAMME[®] to be sprayed on metallic structures according to their section factors and the fire resistance class to be achieved:



Critical temp. 500°C - Treatment of 3 sides

		Profiles of	the metallic	structures		Thickness of PROTEC FLAMME® in mm							
Section factor (m ⁻¹)	IPE	IPN	HEA	HEB	UAP	R 30 (SF 30)	R 60 (SF 1h)	R 90 (SF 1h30)	R 120 (SF 2h)	R 180 (SF 3h)			
400-450						25	50	75	-	-			
375-400						20	45	70	-	-			
360-375	80					20	45	65	85	-			
330-360	100	80				20	45	65	85	-			
320-330						20	40	65	85	-			
300-320	120	100				20	40	60	80	-			
280-300	140					20	40	60	80	-			
260-280	160	120			80	15	40	60	80	-			
250-260	180				100	15	35	55	75	-			
240-250						15	35	55	75	-			
225-240	200	140	120/100		130	15	35	55	70	-			
210-225	220	160	140		150	15	35	50	70	-			
200-210	240		180/160		175	15	30	50	70	-			
185-200	300/270	180			200	15	30	50	65	-			
175-185		200	200	100	220	15	30	45	60	-			
165-175	330	220	220	120	250	15	25	45	60	-			
160-165	360	240			270	15	25	40	60	-			
150-160	400		240	140	300	15	25	40	55	-			
145-150		260	260			15	25	40	55	85			
140-145	450					15	25	40	55	85			
130-140	500	300/280	280	180/160		15	25	35	50	80			
125-130			300			15	20	35	50	80			
120-125	550	320		200		15	20	35	50	75			
115-120	600	340	320	220		15	20	35	45	75			
110-115			340			15	20	30	45	75			
105-110		360	360	240		15	20	30	45	70			
95-105		400/380	450/400	300/260		15	20	30	40	65			
90-95		425	550/500	320		15	15	25	40	65			
85-90		450	600	360/340		15	15	25	35	65			
75-85		550/475		550/400		15	15	25	35	60			
70-75				600		15	15	25	30	55			
60-70		600				15	15	20	30	50			
50-60						15	15	20	25	45			





Protec Flamme[®] on composite and wooden Floors



Fire resistance performance on composite Floor

(cast in situ concrete slab with structural tray) Test of fire resistance compliant with standard XP-ENV-13-381-5



Conditions of validity:

- Trapezoidal waveform
- Thickness of sheet metal ≥0.75mm
- Effective height ≥83mm
- H ≤87mm
- W ≤151.5mm
- Voluminal mass of concrete between 1,935kg/m³ and 2,619kg/m³

REI	60 minutes	90 minutes	120 minutes	180 minutes
	(CF 1h)	(CF 1h30)	(CF 2h)	(CF 3h)
Protec Flamme®	18mm	18mm	30mm	60mm

Classification report CSTB NO. RS-09-156 - Test report CSTB NO. RS-09-049/RS-09-050

Fire resistance on wooden Floor

Test of fire resistance compliant with standard NF-EN-13 65-2



REI60 minutes
(CF 1 h)90 minutes
(CF 1h30)Protec Flamme®41mm85mm

Test report CSTB NO. RS-09-082 / RS-09-083 EC Certificate of conformity 0679-CPR-0747 ETE - 21/1097

Steel roof tray: Get in touch with us



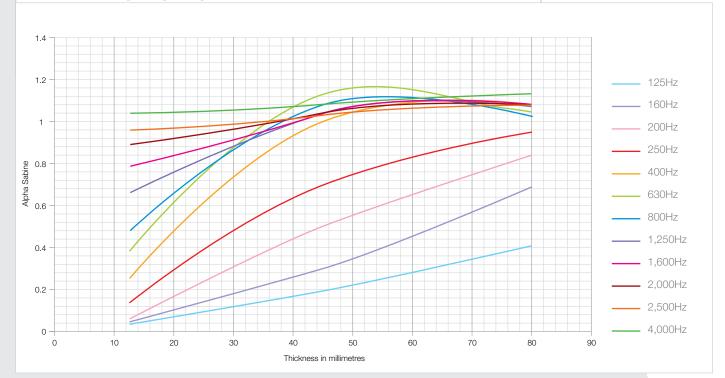


Protec Flamme®

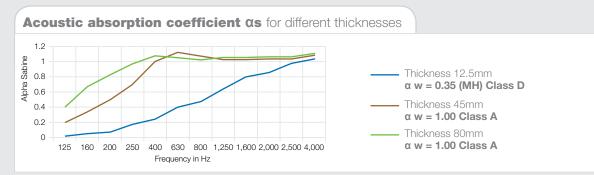
Acoustic correction



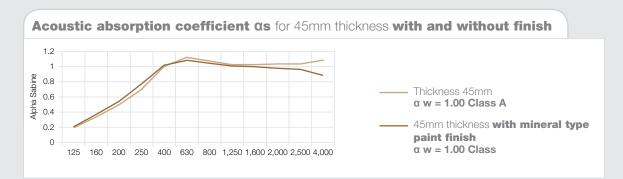
Acoustic absorption of Protec Flamme[®] versus thickness, broken down by frequency band



Test report CSTB NO. AC 09-260 18045/1- REV 01/Test report CSTB NO. AC 09- 260 21062/1-REV 01 Test report CSTB NO. AC 09-260 18045/2-REV 01



Test report CSTB NO. AC 09-260 18045/1-REV 01/Test report CSTB NO. AC 09- 260 21062/1-REV 01 Test report CSTB NO. AC 09-260 18045/2-REV 01









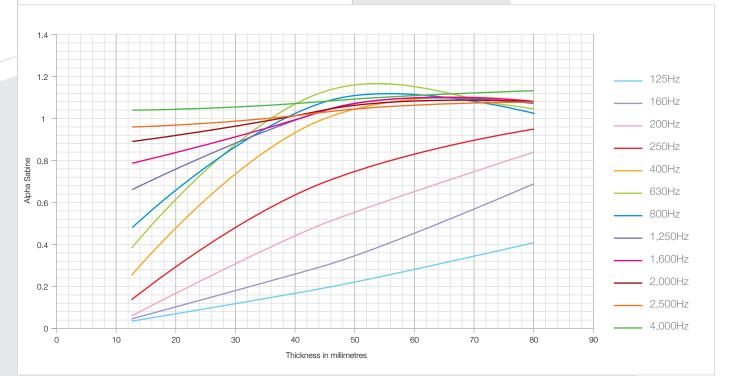
Protec Acoustique[®]



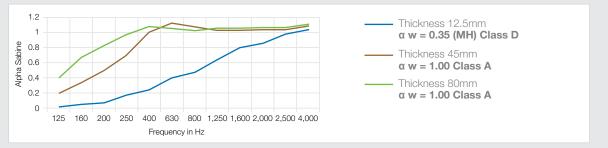
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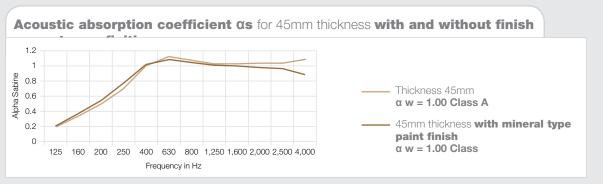
Acoustic absorption of Protec Acoustique® versus thickness



Test report CSTB NO. AC 09-260 18045/3-REV01/Test report CSTB NO. AC 09-260 18045/4-REV01 Test report CSTB NO. AC 09-260 21062/3-REV01



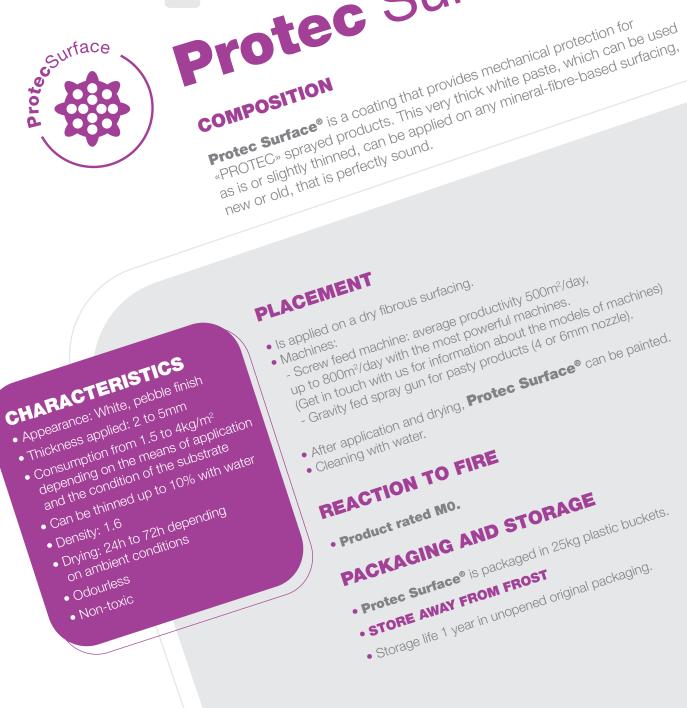
Test report CSTB NO. AC 09-260 18045/3-REV01/Test report CSTB NO. AC 09-260 18045/4-REV01 Test report CSTB NO. AC 09-260 21062/3-REV01



Test report CSTB NO. AC 09-260 21062/3-REV01









protec Surface®

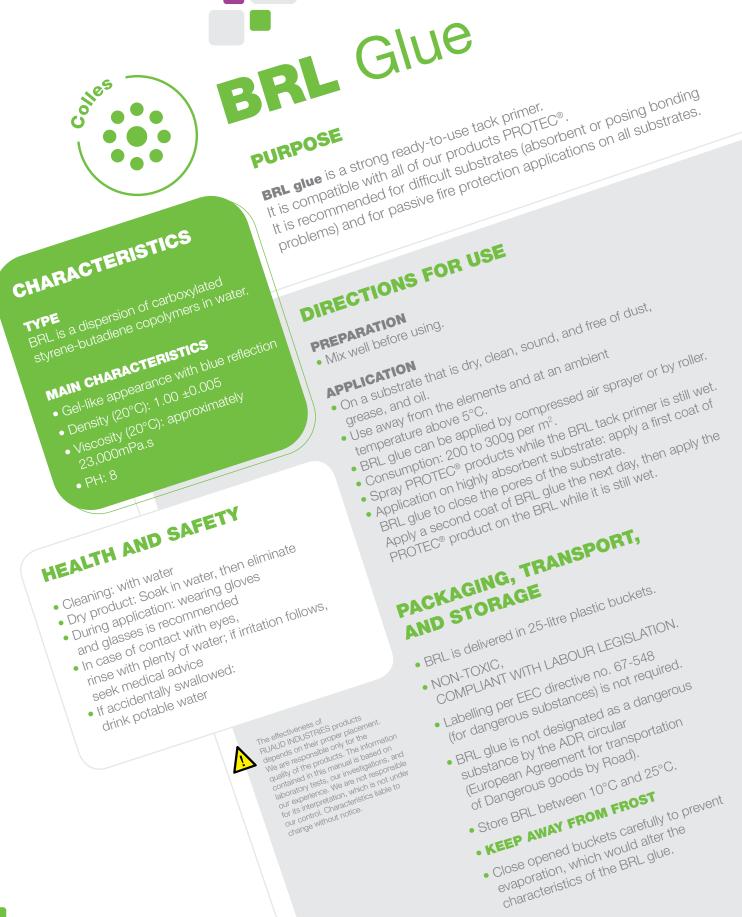


Ready-to-use materials for spray-on insulation.





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List of

our classification reports and test reports compliant with European standards (Certificates)



Protec Thermique'S®

Fire resistance on concrete	CSTB	classification report no.	RS10-008	
• Fire resistance on underside of concrete slab	CSTB	test report no.	RS10-007	p.7
• Fire resistance on concrete girder	CSTB	test report no.	RS10-008	p.7
Acoustic report, 80mm thickness	CSTB	test report no.	AC09-26021062/2	p.7
 Environmental and Sanitary Declaration (FDES): 				p.7



Protec Flamme®

EC Certificate of conformity 0679-CPR-0747 ETE - 21/1097

Fire resistance	CSTB	classification report no.	RS09-156	
• Fire resistance on underside of concrete slab, 84mm thickness	CSTB	test report no.	RS09-002	p.9
• Fire resistance on underside of concrete slab, 17mm thickness	CSTB	test report no.	RS09-003	p.9
• Fire resistance on concrete girder, 88mm thickness	CSTB	test report no.	RS10-004	p.9
 Fire resistance on concrete girder, 15mm thickness 	CSTB	test report no.	RS10-005	p.9
 Fire resistance on composite floor concrete/structural trays, 77mm thickness 	CSTB	test report no.	RS09-049	p.14
 Fire resistance on composite floor concrete/structural trays, 18mm thickness 	CSTB	test report no.	RS09-050	p.14
 Fire resistance on a wooden floor 85mm thickness 	CSTB	test report no.	RS09-082	p.14
 Fire resistance on a wooden floor 41mm thickness 	CSTB	test report no.	RS09-083	p.14

 Fire resistance on steel structure 	CSTB	classification report no.	RS09-133	
• Fire resistance on steel structure	CSTB	test report no.	RS09-133	p.10-11-12-13
• Acoustic test report, 12.5mm thickness	CSTB	test report no.	AC09-26018045/1-Rev	01 p.15
 Acoustic test report, 45mm thickness with and without paint 	CSTB	test report no.	AC09-26021062/1 Re	v01 p.15
Acoustic test report, 80mm thickness	CSTB	test report no.	AC09-26018045/2-Re	v01 p.15



Protec Acoustique®

 Acoustic test report, 12.5mm thickness 	CSTB test report no.	AC09-26018045/3-Rev01	p.17
 Acoustic test report, 45mm thickness with and without paint 	CSTB test report no.	AC09-26021062/3-Rev01	p.17
Acoustic test report, 80mm thickness	CSTB test report no.	AC09-26018045/4-Rev01	p.17



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