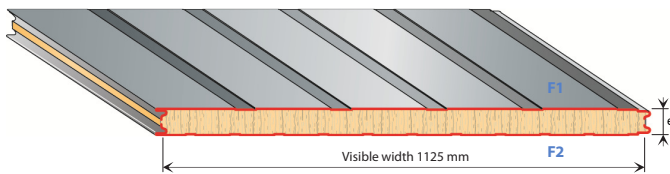


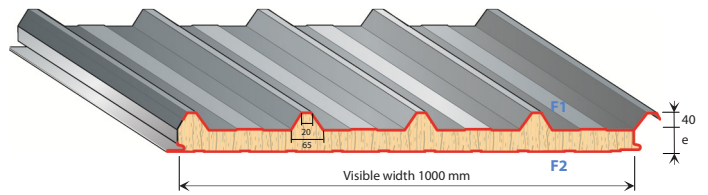
Mineral wool sandwich panels

Product range & technical specifications

Monolaine B (wall | through-fix)



Monolaine T (roof)



General panel information

Thickness (e):	50 - 60 - 80 - 100 - 120 - 150 mm
Insulation core:	Mineral wool class A1 (EN 13501-1) Density 100 kg/m ³ (±5kg/m ³ according to EN 14509)
Steel:	Hot dip galvanized steel S320GD
Facings*:	F1: 0.63 mm std 0.75 mm F2: 0.50 mm std 0.63 mm 0.75 mm
Minimum length	
On-line:	2,000 mm
Off-line**:	750 mm

Maximum length*** (m):

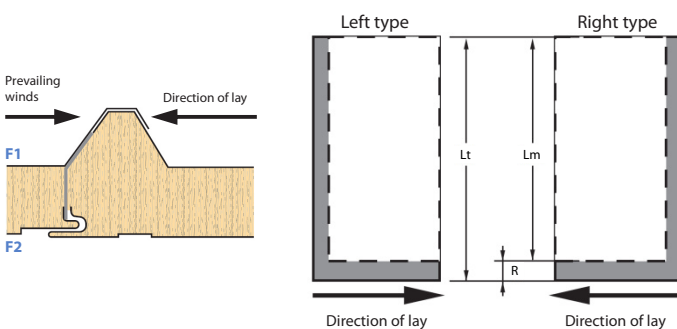
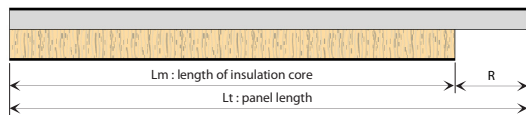
Thickness e (mm)	50	60	80	100	120	150
Monolaine B	7.5	7.5	7.5	12.3	12.3	12.3
Monolaine T Std packing	12.3	12.3	12.3	12.3	12.3	12.3
Monolaine T Octopuss	7.5	7.5	7.5	7.5	7.5	7.5

* The maximum thickness for Colorcoat HPS 200 Ultra* is 0.63 mm
 ** Subject to extra charge
 *** Recommended maximum length ; greater lengths may be available on request

Cutback (for Monolaine T)

Cutback end is available for Monolaine T for length starting from 2,000 mm. Panels with a length below 2,000 mm will have flush ends.

Cutback R 100 - 150 - 200 - 250 - 300 mm



Weight

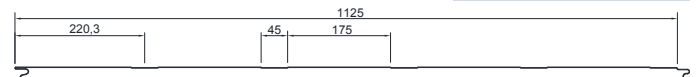
Thickness e (mm)	Weight* (kg/m ²)					
	50	60	80	100	120	150
Monolaine B	14.6	15.6	17.6	19.6	21.6	24.6
Monolaine T	16.0	17.0	29.0	21.0	23.0	25.0

* Panel weight is calculated based on standard steel facings thicknesses F1: 0.63mm | F2: 0.50mm

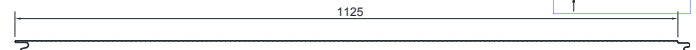
Profiles

F1

Ribbed | Monolaine B



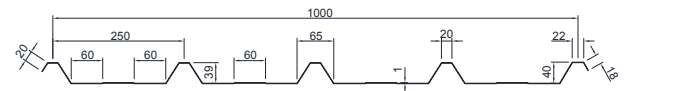
Micro-ribbed | Monolaine B



Smooth | Monolaine B | 0.75 mm minimum



Trapeze | Monolaine T



F2

Ribbed | Monolaine B



Ribbed | Monolaine T



Smooth | Monolaine B | 0.63 mm minimum



Smooth | Monolaine T | 0.63 mm minimum



Thermal performance (in accordance with EN 14509)

Thickness e (mm)	U-value (W/m ² .K)					
	50	60	80	100	120	150
Monolaine B	0.760	0.647	0.499	0.406	0.339	0.274
Monolaine T	0.763	0.649	0.500	0.407	0.343	0.277

$\lambda = 0.042 \text{ W/m.K}$

Fire performance

Reaction to fire

Monolaine B and Monolaine T have a reaction to fire classification **A2-s1,d0** in accordance with EN 13501-1.

Reaction to fire		
Thickness e (mm)	Reaction to fire class	Report
Whole range	A2-s1,d0	CSTB RA15-0031

Fire resistance

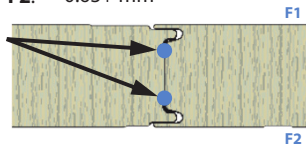
Monolaine B CF is a variation of standard Monolaine B which offers two levels of performance for fire resistant non-bearing exterior & partition wall.:

Thickness e (mm)	Fire resistance ratings (according to EN 13501)		Report
80+	E190	E120	CSTB n° RS04-063
120+	E120	E180	CSTB n° RS04-064

These ratings are valid only for:

Layout:	Vertical only
Maximum length:	4,000 mm
Facings:	F1: 0.63+ mm F2: 0.63+ mm

Intumescent mastic:



Acoustic performance

The acoustic performance of the Monolaine has been measured in laboratory. The results in the table below are based on a 100 mm core and steel facings thicknesses F1: 0.63mm & F2: 0.50mm.

Thickness e (mm)	Sound Reduction			Report
	R _w	R _w +C	R _w +C _{tr}	
100+	28 dB	28 dB	25 dB	CSTB n° AC01-067/6

Monolaine B and Monolaine T are available with the interior facing perforated as an option. The resulting sound absorption tested in laboratory is given in the table below.

Sound Absorption		
Thickness e (mm)	α_w	Report
120+	0.95	FCBA n° 404/07/122/17

Mounting

Rotate the panel prior to interlocking.



Technical approvals

Technical approvals are available for Monolaine B and Monolaine T for France, delivered by CSTB.

Technical Approvals		
Panel	Approval	Date of validity
Monolaine B*	CSTB - DTA n° 2/14-1640	30/09/2018
Monolaine T*	CSTB - DTA n° 2/14-1641	30/09/2017

* Perforated facing is out of the scope of the technical approvals and CE marking

Certificates

Monolaine B and Monolaine T are CE-marked in accordance with EN 14509:2013, with an AVCP system 1 for reaction to fire and system 2+ for others performances.

The assessment and verification is carried out by CSTB France (notified body n°0679), resulting in a certificate of Constancy of Performance for Product n°**0679-CPR-0751**.

The Declaration of Performance (DoP) is affixed on each package on the verso of the label, and remains available after delivery upon request.

Standard colours

Thickness of F1	Standard colours	
	0.63 mm	0.75 mm
Colorcoat® PE 25	A5008 - G7022 - R8012 - G9006 - B9010	J1015 - A5008 - G7022 - R8012 - G9002 - G9006 - B9010

Conditions of supply

All deliveries, unless indicated otherwise, are by road transport to project site. Off-loading is the responsibility of the client.

Packing

Monolaine B

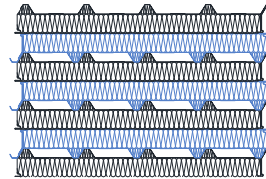


Max. number of panels per package

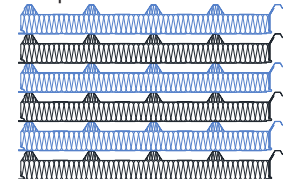
Thickness e (mm)	50	60	80	100	120	150
Monolaine B	21	17	13	10	8	6

Monolaine T

Standard



Octopuss



Max. number of panels per package

Thickness e (mm)	50	60	80	100	120	150
Monolaine T	14	13	10	8	7	5
Standard packing						
Monolaine T	11	10	8	7	6	N/A
Octopuss packing						

Delivery time

The table below is valid for standard colours and specifications. For others please consult us.

Date of order record		Date of provision
Monday Tuesday Wednesday	Thursday on Week+1	
Thursday Friday	Monday on Week+2	

monopanel

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