



FIELD OF USE FOR 1st-2nd-3rd DIVISION PRODUCTS

ISOLONDULA - ISOLGRECA

SELF-EXTINGUISHING EXPANDED POLYSTYRENE PANELS SHAPED TO FIT ON METAL DECKS AND ASBESTOS CEMENT SHEETING. THESE PANELS HAVE TWO LATERAL OVERLAPPING SELVAGED TRIMMING RIBBONS AND ARE COUPLED TO AN ELASTOPLASTOMERIC POLYMER-BITUMEN MEMBRANE REINFORCED WITH ROT-PROOF FIBREGLASS MAT FOR THE REFURBISHMENT OF CORRUGATED ASBESTOS CEMENT OR METAL DECK ROOFING.



DESCRIPTION

ISOLONDULA and ISOLGRECA are insulating waterproofing systems manufactured from a pre-shaped and battened high density polystyrene panel coupled with a 2 mm thick elasto-

plastomeric polymer-bitumen membrane reinforced with rot-proof fibre-glass mat. On the two sides the membrane is manufactured with an overlapping selvage which protects the thermal insulation from the flame when the cap sheet is full bonded.

FIELDS OF USE

ISOLONDULA and ISOLGRECA are products which allow restoration and upgrading of old asbestos cement and

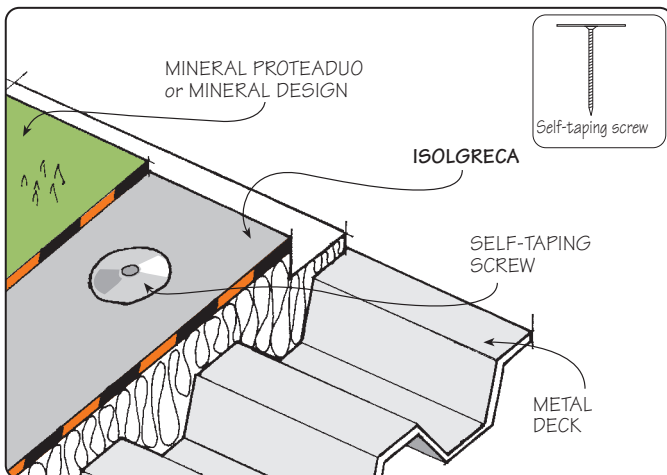
metal sheet roofing without having to strip the roof which would interrupt working activity. Expenses such as transportation to the rubbish tip and the purchase and installation of other roofing material are therefore avoided. On request it is possible to supply different shaped corrugated profiles from the standard production profiles. In this case, the information required in the diagram on the back of the technical sheet must be indicated for production of the panels to proceed.

METHOD OF USE

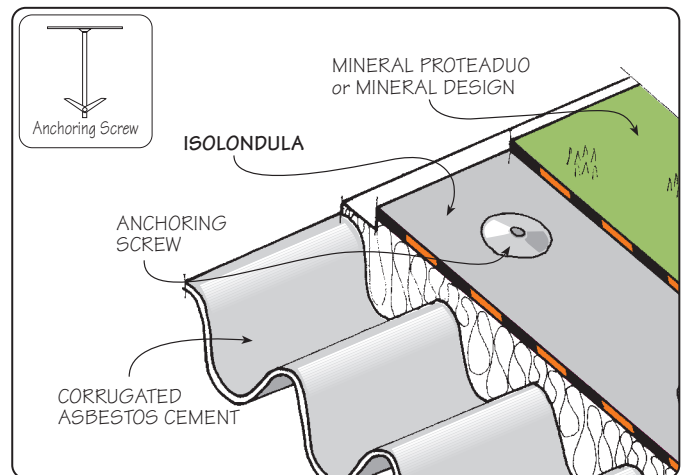
The surfaces to be treated must be sufficiently regular, with the existing sheeting free from breaks and generally able to support the laying of the new panels which must be placed close together with the overlap selvage in line with the highest slope. The panels are fixed to the existing

structure with fixings consisting of special "anchoring" screws for asbestos cement roofing or self-tapping screws for metal deck roofing. The head of both screws has a 70 mm diameter washer. The number of fixings per m² depends on the condition of the surface and the exposure to wind.

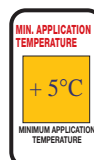
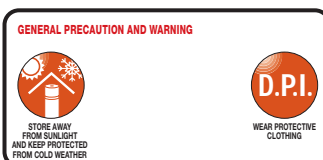
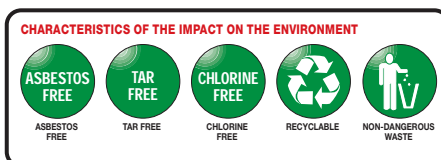
In any case at least 4 fixings per m² should be applied. The waterproofing consists of a 4.5 kg/m² waterproofing polymer-bitumen membrane reinforced with "non-woven" polyester with a mineral finish, laid astride the overlaps of the preceding layer with 10 cm side and end laps.



ISOLGRECA application



ISOLONDULA application



ISOLONDA TECHNICAL CHARACTERISTICS

- Thermal conductivity of the expanded polystyrene

$$\lambda = 0,036 \frac{W}{m^{\circ}K}$$

- Thermal conductivity of the polymer-bitumen membrane (v. bitumen UNI/CTI 7357)

$$\lambda = 0,16 \frac{W}{m^{\circ}K}$$

Average thickness of the panel (mm)	Thickness of the membrane (mm)	Thermal resistance (m ² K/W)	Transmittance K* (W/m ² K)
55	2	1,40	0,62
65		1,65	0,54

* Transmittance values include internal and external adduction coefficient only (R = 0.20 m² K/W)
(1 W/mK = 0.86 Kcal/hm²C)

ISOLONDA is produced in the following densities: 18 - 20 - 25 kg/m³
On request is possible to combine membranes reinforced with polyester

DATA WITH REFERENCE TO 20 kg/m³ DENSITY

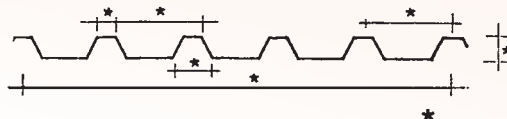
- The above-mentioned values are inclusive of the coefficient of percentage increment in accordance with UNI/CTI 7357 m = 10%
- Expanded polystyrene density: **20 kg/m³**
- Type 2 membrane: **2 min**
- Compression resistance (UNI 6350): **1,4 kg/cm²**
- Water vapour diffusion resistance: expanded polystyrene: μ **50 - 70**
membrane: μ **40.000**
- Membrane creep at 90°C (UNI 8202-16): **1 mm max**
- Tensile strenght of the membrane (UNI 8202/8): **L/T 30/20 kg/5 cm**
- Ultimate elongation of the membrane (UNI 8202-8): **L/T 2%**
- Fire resistance class of the polystyrene (CSE RF2/75/A and RF3/77): **Class 1**
- Water absorption of the polystyrene (UNIPLAST 273):
after 7 days: **2,2% vol**
after 1 year: **3,8% vol**

MEASUREMENTS OF ASBESTOS CEMENT SHEETS FOR THE SUPPLY OF ISOLONDA PANELS

1 Common asbestos cement sheets for which production is standardised	EURO SHEET 177/51/5 n. 5 corrugations		PANEL SIZE 87,5x100xaverage thickness USABLE SURFACE 84x100xaverage thickness
	EURO SHEET 177/51/6 n. 6 corrugations		PANEL SIZE 104x100xaverage thickness USABLE SURFACE 101,5x100xaverage thickness
	EURO SHEET 152/52/6 n. 6 corrugations		PANEL SIZE 89,5x100xaverage thickness USABLE SURFACE 87x100xaverage thickness
	EURO SHEET 146/48/7 n. 7 corrugations		PANEL SIZE 102x100xaverage thickness USABLE SURFACE 100x100xaverage thickness
2 Romanella type sheets			PANEL SIZE
3 For asbestos cement sheets not covered in the examples, the information and dimensions must be filled as indicated			number of corrugations _____

ISOLGRECA TECHNICAL CHARACTERISTICS

Measurements of the metal deck for the supply of ISOLGRECA panels



PANEL SIZE

Always fill in the indicated measurements (*)

Average thickness of the panel (mm)	Thickness of the membrane (mm)
60	2
65	2
70	2
75	2

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ring the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX S.p.A. at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Consider

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Construction Systems

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- IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS

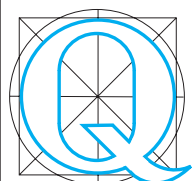
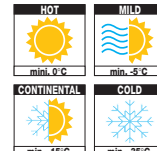
USE OF ISOLGRECA



USE OF ISOLONDA



WORKING CLIMATES



TOTAL QUALITY
Q.S. ISO 9001