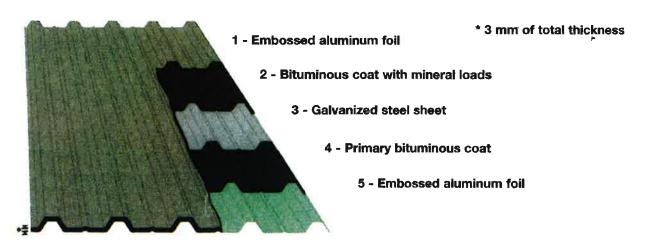


COMPOSED ISOTHERMIC STEEL PLATES FOR ROOFING AND FACING DESCRIPTION

The MULTILAYERT isothermic plate is made of a resistant core of galvanized steel sheet with thickness 0.45 mm or 0.63 mm, coated on each side with a bituminous facing with mineral loads which are once recovered on the external face with embossed aluminum foil in the natural colours (mill finish), floride yellow, terra cotta, green or black and on internal face with embossed aluminum foil in lacqued green.



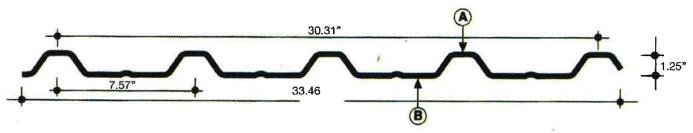
UTILIZATION

- Industrial Buildings
- Warehouses
- Sportive Buildings

- House
- Airports
- Shopping Centers

- •Farmer and Breeding Buildings
- Office and School Buildings

PROFILE



Mechanical Characteristics

Thickness	0.098" (METRIC 2.5 mm)			
Unit Weight MULTILAYERT REGULAR	1.4 lb/ft2 (MET	TRIC 6.9 kg/m²)		
MULTILAYERT REGULAR	1.7 lb/ft2	(METRIC 8.5 kg/m²)		

Allowable Span

	Three Supports	шш			
Loads (lbs / sqft)	16	20	24	29	33
MULTILAYERT Regular (GA 27 = 0.4 mm)	7' - 7"	7' - 0"	6' - 3"	5' - 10"	5' - 6"
MULTILAYERT Ultra (GA 24 = 0.6 mm)	8' - 9"	8' - 2"	7' - 8"	7' - 3"	7' - 0"

	Two Supports	шш			
Loads (lbs / sqft)	16	20	24	29	33
MULTILAYERT Regular (GA 27 = 0.4 mm)	6' - 5"	5' - 11"	5' - 7"	5' - 3"	4' - 11"
MULTILAYERT Ultra (GA 24 = 0.6 mm)	7' - 5"	6' - 11"	6' - 6"	6' - 2"	7' - 0"

SIZES: Any size or length of sheets may be supplied, allowing even complex roof and facing designs to be undertaken. Nevertheless the use of a maximum of 32' ft. is advisable in order to ease transport and fitting work.

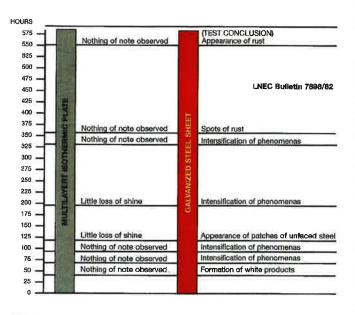
TESTS AND OTHER CHARACTERISTICS

Our experience of more than 16 years guarantees the protection efficacy and confirm the longevity of the MULTILAYERT isothermic plates. Following tests conducted by LNEC - The National Civil Engineering Laboratory, the MULTILAYERT isothermic plate has been officially certified and approved.

RESISTANCE TO CORROSION

The composition characteristics of the MULTILAYERT isothermic plate doesn't require any maintenance, even in aggressive atmospheres.

TESTS CONDUCTED UNDER SEA MIST CONDITIONS



SOUND PROOFING

The protection coats reduce and deaden the disagreeable effects of rain and aerial sounds noise.

•Compare with the galvanized steel sheet with the same profile, the MULTILAYERT isothermic plate is about 5 times higher in conformity with phonometric tests realized in laboratories.

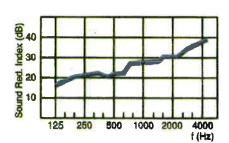


0 10 20 30 40 50 60 70 80 90 100 110

•Sound Insulation of aerial sounds.

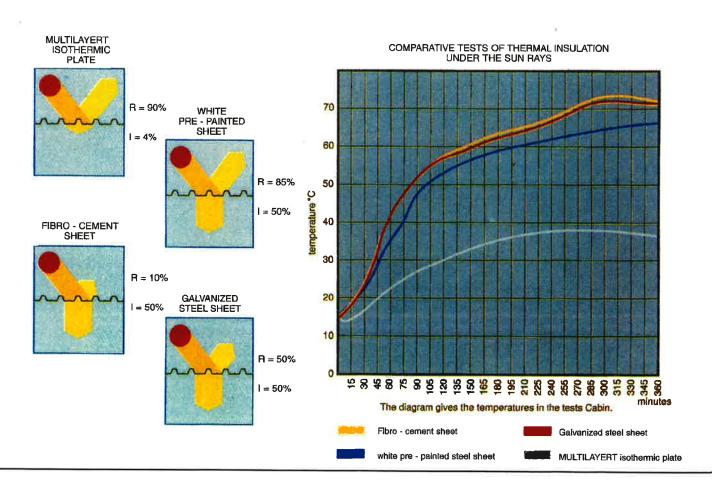
The average sound insulation index is 27 dB.

LNEC Bulletin 31/82/NAI



THERMAL INSULATION CAPACITY

Exposed to the sun, the MULTILAYERT isothermic plate avoids the overheating and minimize variations in indoor temperatures which means a very good product to use in buildings without insulation. The reflective capacity (R) reduces the absorbed heat to the roof. Another advantage is to reduce the irradiation capacity (I) limiting the absorbed heat from the roof.



ACCESSORIES

•COMPLEMENTARIES

- Translucent sheet, in polyester, 1.10 mm thickness, in desirable lengths.
- Lantern lights
- Base Frames
- •FINISHINGS



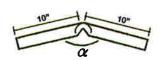
<u>Ridges</u>

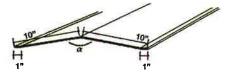
In galvanized steel, aluzinc (galvalume) or pre-painted steel sheet in the same colour of the isometric plate, 0.6 mm thickness and developments of 350, 400 or 500 mm:

a) In the same profile of the isometrics plate. The utility width is the same of the isometric plate, i.e. 776 mm.

b) Flats. The widths are variables







(b)

The α angle will be in function of the roof inclination.

Flashings

May be made in several types with the maximum length of 6000 mm



FIXATIONS

- Foam Fillers in PE for both sides; (a) Valley; (b) Closing up.



- Hex washer head self tapping screw 6.3 x 64 mm in zinc plated carbon steel.
- Shaped hookbolt in aluminum or zinc plated steel with nut, ø6 mm, with the form and the length adapted to the purlin.
- Star stamping washer in galvanized steel sheet, in the same colour of the isothermic plate, ø32 mm.
- The same colour of the isothermic plate, \$52 min.



- Saddle Washer



TECHNICAL DATA

All undermentioned tests had in	view the MULTILAYERT isothermic plate with the external face in natural aluminum (mill finish)
Sea Mist Conditions Capacity	Compared with the galvanized steel sheet, during a test time of 553 hours the isothermic plate shows from 120 hours a little loss of shine as long as the galvanized steel sheet in the first 48 hours shows an intensification of phenomenas came and on the 352 hours presented spots of
Define the Constitution	rust, finishing in the 553 hours with appearance of distinct rust (LNEC Bulletin 7898 / 82)
Reflective Capacity	90%
Irradiation Capacity	4%
Thermal Transmission Capacity	4.15W/m2 °C
(Average Value)	4.82 Kcal/m2h.°C LNEC Bulletin 1/82/NTF
Thermal Resistance	0.021 m2 °C/W
	0.024 m2.h °C/Kcal LNEC Bulletin 1/82/NTF
Sound Proofing Capacity (Rain)	About 5 times higher than the galvanized steel sheet with the same profile
Sound Insulation Capacity (Aerial Sounds)	Average sound insulation index =27 dB LNEC Bulletin 31/82/NAI
Thermic Shock Capacity	After 10 heating and cooling cycles in conformity with the æDirectives Generales de l'UEAtc pour l'agrement des revêtements d'étanchéité de toitures - juillet 1982" (EUAtc General Directives for the Approval of Waterlight Casting for Roofs - July 1982) no alteration was observed
Variation between admissible	
temperatures	-30 °C +80 °C

REPRESENTATIVE

