

Thermal VHD

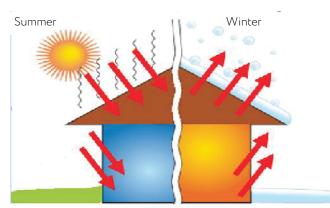


1 Presentation

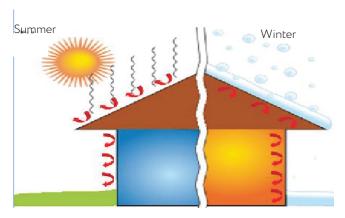
Galvanized steel coated with a painting system (average thickness of 25toà 35 μm), consisting of a primer coat and a Polyester finish coat, made of radiative pigments.

In brief, pigments act as temperature screen from outside to inside building (and vice-versa), gaining:

- Efficiency in both cold and hot environments
- \bullet Reflection of the outdoor heat (inside temperature reduced up to $8^\circ\!\!)$
- Less inside energy needs (heating or air conditioning)



Without THD Thermique



With THD Thermique

Characteristics:

- Aesthetic: dark colours available
- •Technic: thermo-efficient, corrosion high-resistant, good forming ability

Major performances:

Thermal VHD 25 µm

	DIN 55928-8	XP 34-301	EN 10169
Corrosion resistance	III	III	RC3
Photochemical resistance (UV)		III	RUV4

Thermal VHD 35 μm

	DIN 55928-8	XP 34-301	EN 10169
Corrosion resistance	III	VI	RC4
Photochemical resistance (UV)		Ш	RUV4

2 Use

Particularly elaborated for sustainable and low-energy demanding building markets.

Depending on the building design and implementation, the roofing made of Termal VHD would save up to 15% of the total energy cost.







3 Quality Standards

3.1) Organic coating: in compliance with EN 10169

NB: according to its environment protection policy, NLMK supplies coatings and surface treatments free of chromium and heavy metals.

3.2) Mechanical properties: defined by the substrate's steel grade and its corresponding norm

Avalaible steel grades:

- Mild steels: DX 51 to DX 53, in compliance with EN 10327
- \bullet Structural steels: S220 to S350GD, in compliance with EN 10326

4 Coating

4.1) Substrate's Metallic coating:

- Double-sided, in compliance with EN10346
- Zinc mass: Z225 Z275

4.2) Finish organic coating:

- Conventional: Top side finish coat
- Optional: double-sided
- Primer layer on reverse side

Properties	Test standard	Criteria	Guarantee	Commens
Thickness	EN-13523-1	P34301 or EN-10169	25 to 35 μm	
Specular gloss	EN-13523-2	P34301 or EN-10169	20 to 50 GU	GU = gloss unit
Bending adhesion	EN-13523-7	P34301 or EN-10169	0.5 T	
Pencil Hardness	ISO 1518		> 1500 g	
Flexibility	EN 13523-7		2 T	
Tropical Test	EN-13523-26	1500 h	-	-
Salt Spray Test	EN-13523-8	EN-10169	360 h	
UV resistance	EN-13523-10	DELTA E <=3 Gloss retention >80%	2000 h	
Fire	CSTB		M0	

5 Range of dimensions

Consult the Data Sheet «Guide & Recommendations»

6 Delivery

Coils:

T/Co:Lo	17.2 h may	
T/Coils	17,3 t max	
Outside diameter	1800 mm max	
Inside diameter	508 or 610 mm	
Section	1520 mm²	
Axis	horizontal	
Strapping	radial & circumferential	
Label	1 inside/ 1 outside	
Packaging on request	- rolled-up on cardboard or metallic cylinder - paper or metallic wrapped - wooden cradle	
Protection		
Certificate	in compliance with EN 10204	

Sheets & Narrow Strips: consult us

7 Steel processing

The Organic coated steels processing ability depends on the substrate's steel grade.

However, the organic finish coat type and thickness, as well as substrate's properties, might prevent from cutting, forming or welding at usual technical terms.

> Consult us

Data sheet correct at publishing, for information purposes only.

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