

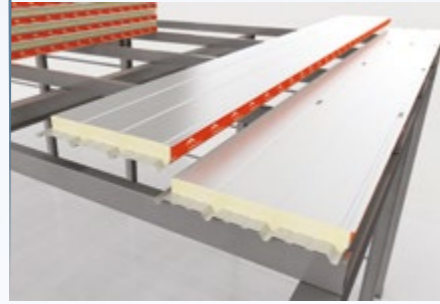
Assembly of Ondatherm® Deck



Flash the QR code to view the installation video.

1

Installation of Ondatherm® Deck: Panels are installed, following the slope of the roof, with distribution plates and fixings, the frequency of which are assessed.



2

Laying the waterproof membrane on Ondatherm® Deck in the direction of the slope.



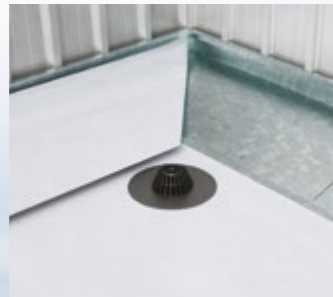
3

Bonding of the membrane using a suitable adhesive.



4

Installation of fabricated accessories at the edges and waterproofing with a bonded membrane.



ArcelorMittal Construction


ArcelorMittal

ArcelorMittal International
24-26 Boulevard d'Avranches
1160 Luxembourg
T: +352 4792 2780

Austria-Österreich
ArcelorMittal Construction Austria
Lothringenstraße 2
4501 Neuhofen an der Krems
T: +43 7229 64 584 0

Pflaum & Söhne Baustysteme
Ganglutzstraße 89
4050 Traun
T: +43 7229 64 584 0

Belgium-Belgie
ArcelorMittal Construction
Lammerdries 8
2440 Geel
T: +32 14 56 39 43

Croatia-Hrvatska
ArcelorMittal Construction Croatia
Bani bb
10000 Zagreb
T: +385 1 6607 532

Czech Republic-Česká Republika
ArcelorMittal Construction
Sokolovská 192/79
186 00 Praha 8
T: +420 272 072 010

Denmark-Danmark
ArcelorMittal Construction
c/o SM Stål ApS
Østre Allé 6
9530 Støvring
T: +45 36 41 30 22

France
ArcelorMittal Construction
16 route de la Forge
55000 Haironville

Installers - North
Haironville (55)
T: +33 3 29 79 85 85
amccommercial@arcelormittal.com

Germany-Deutschland
ArcelorMittal Construction Deutschland
Münchener Strasse 2
06796 Sandersdorf-Brehna
T: +49 34954 455 0

Hungary-Magyarország
ArcelorMittal Hungary
Weiss Manfred ut. 5-7
1211 Budapest
T: +36 1 350 28 76

Netherlands-Nederland
ArcelorMittal Construction
Krommewei 8
4004 LZ Tiel
T: +31 344 631 746

Norway-Norge
ArcelorMittal Construction Norge AS
Tærudgata 1
2004 Lillestrøm
T: +47 63 94 14 00

Poland-Polska
ArcelorMittal Construction
ul. Metalowców 1
41600 Świętochłowice
Tel. +48 32 770 65 40

Portugal
ArcelorMittal Construção
Estrada Nacional 3 (Km 17,5)
Apartado 14
2071-909 Cartaxo
T: +351 263 400 070

Romania-România
ArcelorMittal Construction
136 Biruintei Bdul, DN3 Km 14
077145 Pantelimon, Jud. Ilfov
T: +40 21 312 45 17

Slovakia-Slovenská Republika
ArcelorMittal Construction
Železničná 2685/51A
905 01 Senica
T: +421 34 321 0012

Spain-España
ArcelorMittal Construcción
Carretera Guipuzcoa Km 7,5
31195 Berrioplano (Navarra)
T: +34 948 138 669

Sweden-Sverige
ArcelorMittal Construction Sverige AB
Västanvindsgatan 13
65221 Karlstad
T: +46 (0)54 68 83 00

Switzerland-Schweiz
ArcelorMittal Construction Suisse SA
Industriestrasse 19
8112 Otelfingen
T: +41 56 296 10 10

United Kingdom
ArcelorMittal Construction UK
ArcelorMittal Commercial UK Ltd
Suite F / Campsie Softnet Centre
Enterprise House
Southnet Business Park
Kirkintilloch, Glasgow - G66 1XQ
T: +44 141 530 1485

INDIAN OCEAN

Réunion
ArcelorMittal Construction Réunion
ZIN° 2-44 rue Paul Verlaine
BP 802
97825 Le Port
T: +262 42 42 42

Mauritius
Profilage de l'océan Indien
Route de la Filature
Mauritius-Riche Terre
T: +230 248 17 05

CARIBBEAN

Guadeloupe
ArcelorMittal Construction Caraïbes
51 Rue Henri Becquerel prolongée
Bâtiment B - Z.I. de Jarry
97122 Baie-Mahault
T: +590 26 82 03

Martinique
ArcelorMittal Construction Caraïbes
ZIP de la Pointe des Grives
97200 Fort de France
T: +596 60 60 00

Saint Martin
ArcelorMittal Construction Caraïbes
Lotissement Savane Activité
97150 Saint Martin
T: +590 52 98 04

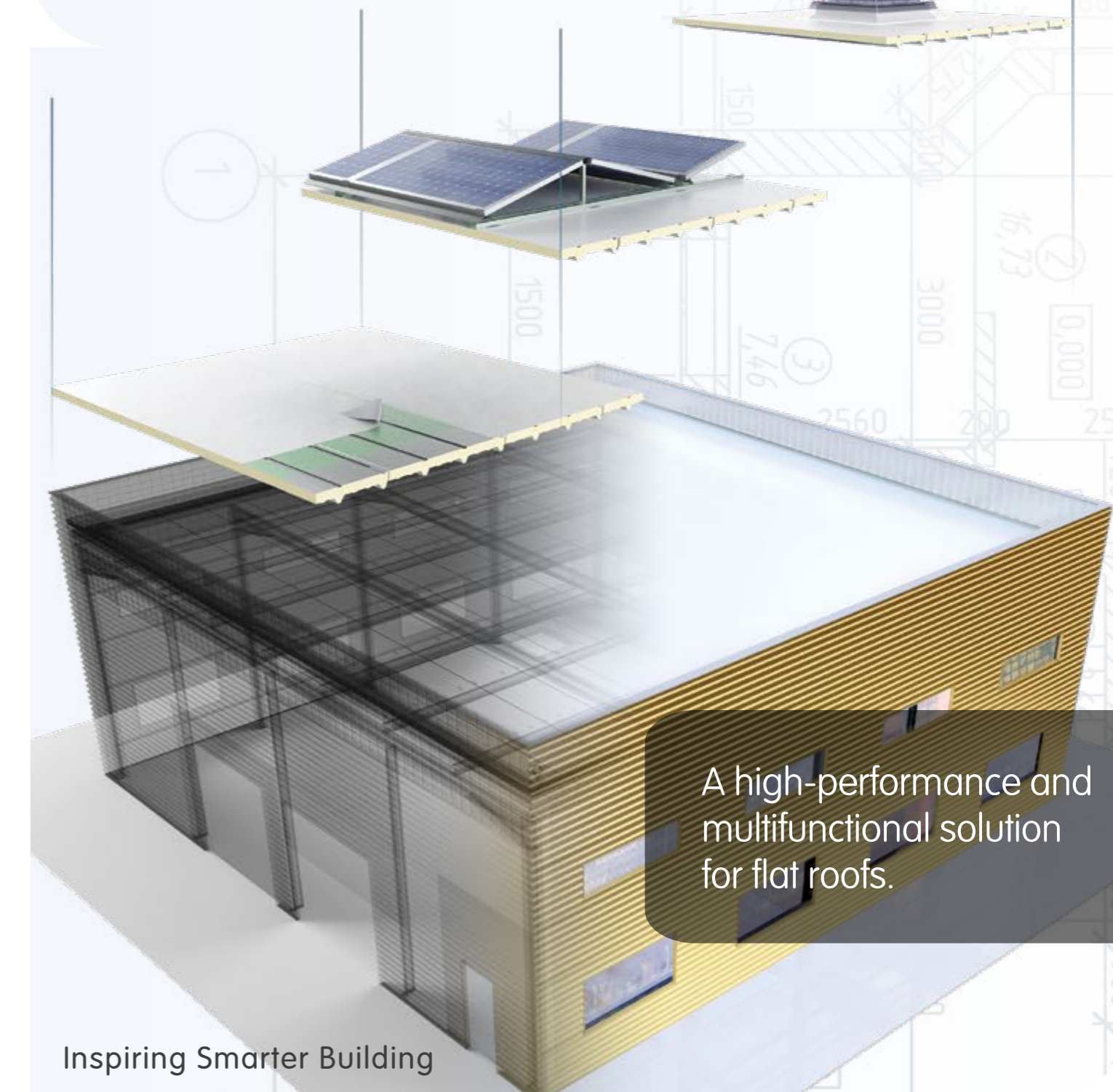
Dominican Republic
ArcelorMittal Construction Caraïbes
131 Avenue Charles de Gaulle
Ens. Cancino Viejo
Santo Domingo
T: +1 809 483 27 69

Guyana
ArcelorMittal Construction Caraïbes
ZI de Degrad des Cannes BP 418
97300 Remi-Remont-Joly
T: +594 25 52 25

ArcelorMittal Construction


ArcelorMittal

Ondatherm® Deck Prefabricated flat roof solution



A high-performance and multifunctional solution for flat roofs.

Inspiring Smarter Building

construction.arcelormittal.com

This publication is not a contractual document. Due to a policy of continual product development, ArcelorMittal Construction reserves the right to alter any of the specifications given in this publication without prior notice. No responsibility for accuracy is accepted by ArcelorMittal Construction. All information contained in this brochure is the sole property of our company and any unauthorized use is strictly forbidden.

Version 1.0 - 09/20

Prefabricated flat roof solution for fast and safe installation

Based on years of experience in the development, production and study of waterproof support solutions, ArcelorMittal Construction, true to its commitment of innovation, is launching Ondatherm® Deck, a new flat roof solution for fast, safe and efficient installation. This system provides a solution that reduces installation time whilst improving the mechanical performance and thermal insulation. Thanks to Ondatherm® Deck, ArcelorMittal Construction helps a faster build time whilst reducing costs.



The key to energy performance

Building standards are setting increasingly strict requirements to ensure high energy performance. Ondatherm® Deck improves thermal insulation by 20%:

- PRT Hexacore® PIR foam insulation with a thermal conductivity (λ) of 0.023 W/m.K.
- A reduction of thermal bridges usually caused by the fixing density by approx. 12 %.
- Excellent air permeability of the joints: 0.37 m³/h.m² at 100 Pa.



Faster installation on site

Time saving of 45% for a 1000 m² site: the installation of Ondatherm® Deck is estimated at 150 m²/man/day, compared to 83 m²/man/day for a conventional built up insulated deck system.



FM certifications

- Reaction to fire: B,s1 -d0.
- Wind resistance: Class 1 -90 and Class 1 -120.



An interior finish with hidden fasteners

Ondatherm® Deck is an aesthetic solution ensured by the absence of through fasteners.



A sustainable and safer world

Ondatherm® Deck allows the reduction of the environmental footprint of the building by reducing the quantities of materials used:

- 90% fewer fasteners.
- Less waste on the membrane overlap thanks to the installation of a wider membrane.

Ondatherm® Deck is made from pre-painted steel that is chrome-free and free of heavy metals, and has the A+ indoor air quality label.



Improved mechanical performance

The sandwich concept between the steel profile and the PIR foam contributes to a superior mechanical capacity. It increases loads and reduces the need for substructures.



Ondatherm® Deck is tested and manufactured according to a demanding and standardised quality control: ISO 9001, ISO 14001, ISO 45001.

A solution tested and certified according to the most demanding national and international standards

Ondatherm® Deck is a certified system according to the FM approvals standard 4471.

The FM approvals require a series of audits that guarantee the traceability of the product from the raw material to the laboratory and tests in which empirical data on the actual behaviour of the product are obtained.

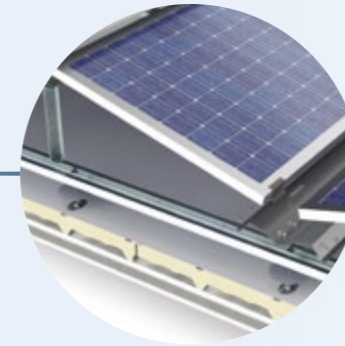


The «FM Approved» label certifies that a product complies with national and international standards.

Indoor Combustibility (NFPA 276)	Class 1
Flame propagation on the surface (ASTM 108)	Class A
Resistance to wind uplift (FM 4471)	Class 1-90 & Class 1-120
Resistant to on site foot traffic damage (FM 4471)	Approved
Resistant to hail damage (FM 4471)	Intense hail (SH)

Solar fixing

In order to facilitate the fixing of solar panels on the roof, ArcelorMittal Construction has developed Ondafix® Solar, which allows fixing of photovoltaic panels whilst guaranteeing optimal waterproofing before and after installation for up to 20 years!



Skylight

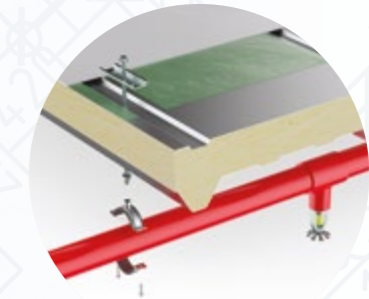
Roof windows provide uniform light distribution and illumination throughout the interior. They comply with fire safety regulations. To facilitate their installation, we have developed a functional and tailor-made solution that guarantees optimal watertightness.

Case study: logistics building

Fasteners used in the installation of Ondatherm® Deck compared to those used for a standard built up waterproof support.

	Ondatherm® Deck with bonded membrane	Standard waterproofing support
Membrane	Bonded membrane: 0 fasteners	Membrane: 2,47 fasteners/m ²
Insulation and support	Ondatherm® Deck 0,33 fasteners/m ²	Insulating block: 2 fasteners/m ² Metal support: 1,33 fasteners/m ²
Total number of fasteners	0,33 fasteners/m ²	5,8 fasteners/m ²

The Ondatherm® Deck flat roof system is a complete solution ensuring the mechanical stability of the structure as well as its thermal behaviour and waterproofing. The roof system is complimented with the various accessories designed by our technical experts.



Sprinkler system

The protection of the building against fire can be achieved by the fast and efficient installation of sprinklers provided by our unique solution.

-90%

uncontrolled linear thermal bridges

Thanks to ingenious joint design and optimised use of fasteners.

-90%

overlap area of waterproof membranes

The use of a wide bonded membrane reduces overlaps by half.

-90%

fewer fasteners

Thanks to the design of the structural concept.

+20%

thermal insulation

Thanks to the enhanced performance of our PRT Hexacore® foam (self-formulated)