


# Frigotherm<sup>®</sup>

## Coldstore insulated panels



High-performance panel  
system with dedicated  
team and support

## The experts in coldstores

Introducing ArcelorMittal Construction Coldstore, your expert partner in the field of controlled environments. We specialise in the design of building envelope solutions for coldstores in retail and agriculture, with applications ranging from food storage to medical facilities.

### Dedicated solutions, dedicated teams

Our insulated panel solutions are developed specifically for coldstores. They are fully backed by our specialist teams, always on hand to give you technical support. Whatever challenges you face in your coldstore or cold room projects, we have the expertise you need to ensure their smooth delivery, from specification to installation. Benefit from a complete package of innovative solutions, including wall and ceiling panels and partitions. A flexible product portfolio can be yours too, along with short lead times.

### Understanding the sector

Our coldstore systems and solutions have been created by listening to the needs of the sector. Not only do we have in-depth understanding of what the industry wants, we are pioneers

in unique construction solutions. As such, our quality-assured products have been designed specifically to deliver the optimum solutions for coldstore and cold room environments.

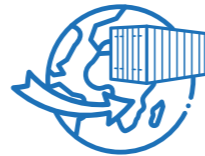
### Commitment to sustainability

Our business is built on our commitment to the environment and sustainability, delivering solutions that contribute to energy-efficiency, reduce the carbon footprint of buildings, and are partially recyclable.

We invest heavily in research and development and industrial solutions as part of our ongoing commitment to address environmental challenges through a programme of innovation.

So whether you're involved in cold storage of packaged products, deep freezing, food processing or product conservation, we've got the ideal solution you need.

ArcelorMittal Construction is committed to the highest standards of environmental management, energy management, quality management and health and safety. We are certified to ISO 9001, ISO 14001, ISO 45001, ISO 50001.



Customised solutions for export shipping



Our coldstore and cold room solutions are **quality controlled** and **quality assured**, backed by a warranty tailored to your project requirements.

## Coldstore support

To help you create your ideal coldstore or cold room design and construct an efficient, high-performance space, our dedicated technical and design team is always on hand to support your project.

### Advice you can trust

Our coldstore experts provide all the support you need; we are always available with the best design, performance and technical advice to enhance your projects.

### Industry leaders

ArcelorMittal Construction Coldstore is not just a panel manufacturer: we are experts in temperature-controlled environments and designers of dedicated technology. We understand the sector deeply and listen to our partners to provide the products they need.

### Special coldstore division

- Solution designed specifically for coldstore environments
- Dedicated manufacturing of coldstore systems
- Dedicated sales and technical team
- Flexible product portfolio
- Short lead times
- Easy replacement of damaged panels
- Fast delivery to site

Complete control of our **supply chain** means we can ensure quality manufacturing and service that delivers outstanding solutions – reliably and on time.



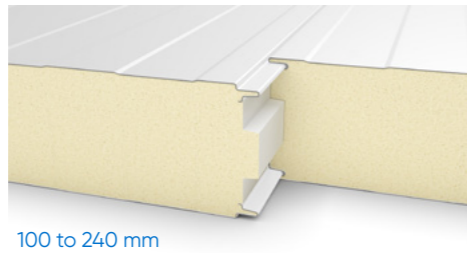
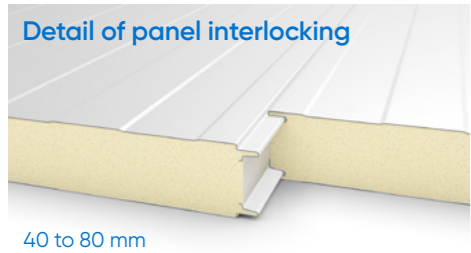
# About Frigotherm®

The Frigotherm® range offers high-performing, sustainable insulated panel solutions for refrigerated rooms or rooms with controlled atmospheres (-40°C / + 40°C). The range

comprises two types of PIR-based panels: PRT Hexacore®, and iQ+ system®, which offers enhanced thermal performance and energy efficiency.

## Unique tongue and groove connection

Frigotherm®'s unique tongue and groove connection and grouting finish provide outstanding watertightness, airtightness and water-vapour diffusion, technically adapted for the hygiene and cleaning requirements of the food industry.



## - 30% silicone

The small regular panel joints mean a thinner gap to fill, less sealing and less silicone resulting in less time and lower cost.

## Specifications

		Frigotherm® PRT Hexacore®	Frigotherm® iQ+ System®
Foam insulation	-	PRT Hexacore®	iQ+ System®
Width	mm	1150, 1100, 1000	1150, 1100, 1000
Thickness	mm	40, 60, 80, 100, 120, 140, 160, 170, 180, 200, 220, 240	40, 60, 80, 100, 120, 140, 160, 170, 180, 200, 220, 240
External aspect	-	ribbed, micro-ribbed, smooth	ribbed, micro-ribbed, smooth
Thermal conductivity λ*	W/m.K	0.021	0.018

\*λ According to NF EN13165+A2 & Position paper NB-CPR/SG19/N165

## Fire performance

FM 4880 & 4881	Pa2 Classification according to D14A
Fire resistance EI 30, EI 60	SBI B,s1-d0

## Panel certifications

2.1/15-1698_V3	Z-10.4-677
CE Certification	16/193/1152
GOST R Certified	

# Frigotherm® PRT Hexacore®

## Exceptional performance and versatility

Frigotherm® PRT Hexacore® is a visible-fixings insulated composite panel, with a core made of polyisocyanurate PIR foam and pre-coated steel facings.

This high-performance foam sandwich panel is designed for walls, ceilings and partitions, with a variety of facings available depending on specific applications and industry requirements.

Key features of our PRT Hexacore® panels include outstanding watertightness, airtightness and water-vapour diffusion. Our 120mm to 180mm-thick panels have fire resistance of EI 30. Our 200mm to 240mm-thick panels have an excellent reaction to fire of B,s1-d0 according to SBI Test, fire resistance of EI 60 and heat transmission under 0.11 W/m².K.



# Frigotherm® iQ+ System®

## New generation of enhanced insulated panels

Frigotherm® iQ+ System® is a new generation of insulated sandwich panels with a thinner core made of polyisocyanurate foam iQ+ and pre-painted steel facings, for refrigerated rooms and rooms with controlled atmospheres. Frigotherm® iQ+ System® offers enhanced thermal performance, including a lambda value of 0.018 W/m.K, and a reaction to fire of B,s1-d0.

## < CO<sub>2</sub> Lower emissions for increased sustainability

iQ+ System® generates less CO<sub>2</sub> for each panel manufactured, cutting emissions by up to 4,000 kg for a 2,000 m<sup>2</sup> facade.

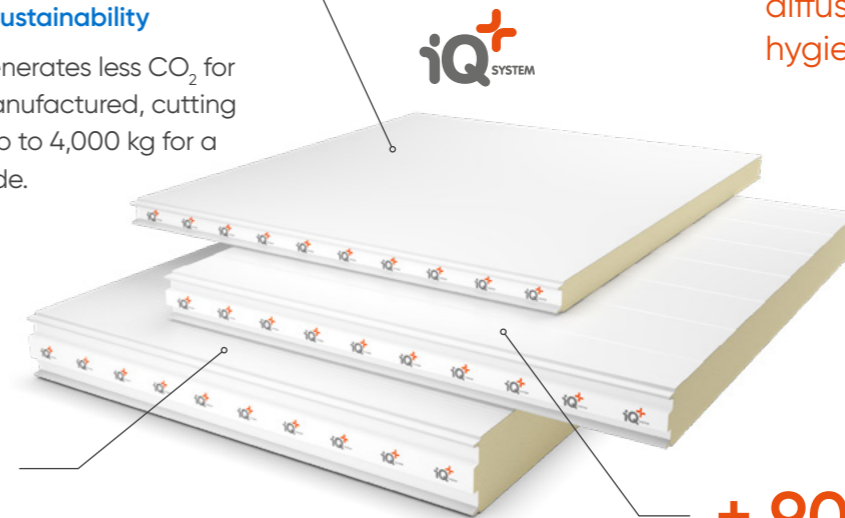
Enhanced performance with outstanding watertightness, airtightness and water-vapour diffusion, adapted for the highest hygiene and cleaning standards.

## + 15% Thermal performance for improved thermal insulation

The iQ+ System® foam formula delivers a 15% increase in thermal performance at constant panel thickness, for all applications.

## + 90% Building efficiency due to optimal airtightness

The iQ+ panel and assembly system deliver better airtightness and, as a result, increased acoustic comfort, indoor air quality, ventilation system efficiency, and structural integrity.



## Food-safe coatings

Our food-safe coatings are durable, consistent in appearance and resistant to corrosion. As a coil-coating steel manufacturer, we manage production from start to finish, giving you greater flexibility, more control over quantities and short lead times.

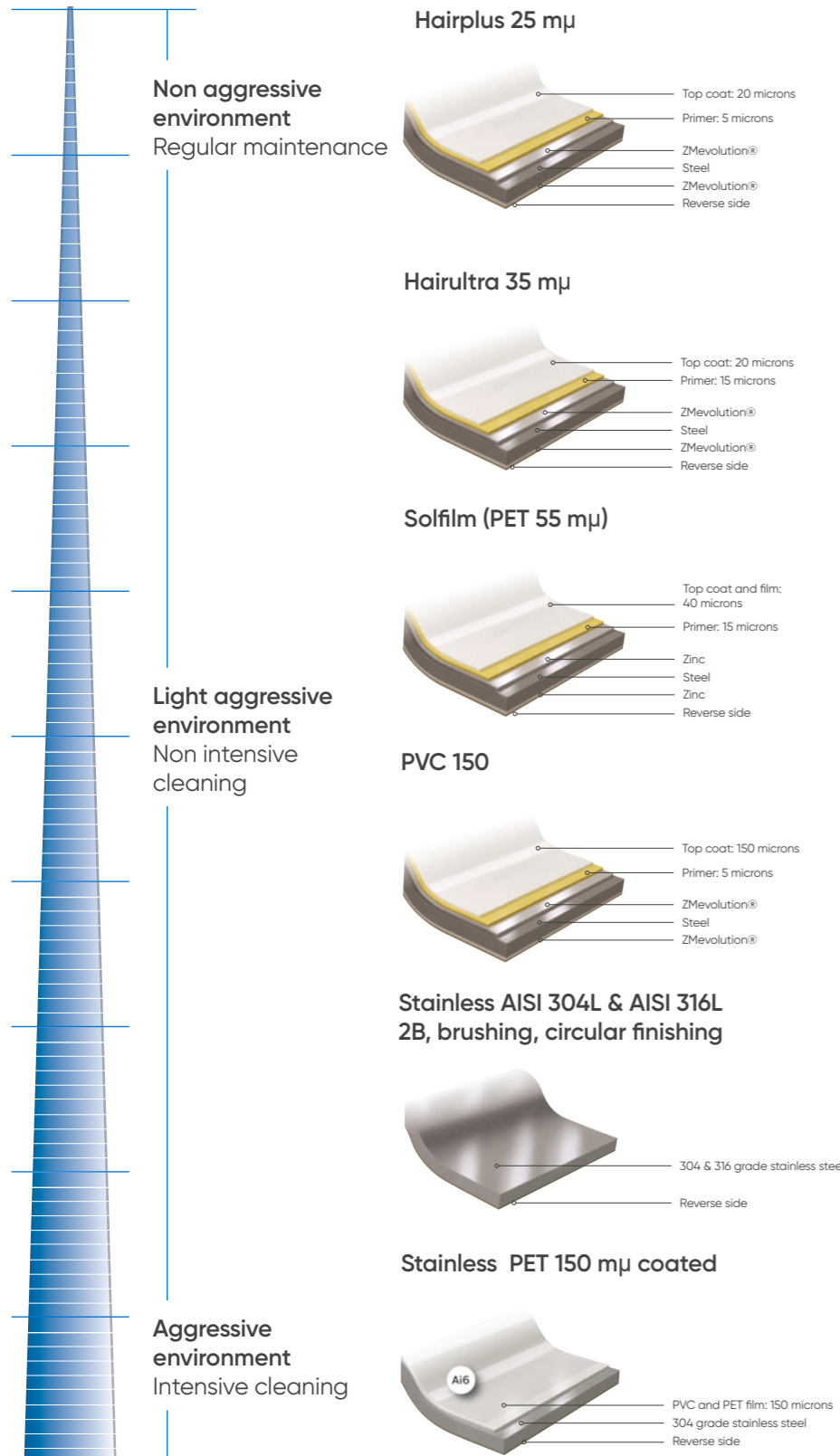
## Durable, strong, resilient

Most of our coatings are made with ZMevo<sup>®</sup> – an innovative zinc, aluminium and magnesium alloy specifically designed for the construction industry. Stronger, more resilient and with higher durability, this new and improved generation of sustainable metallic coating offers exceptional aesthetic appeal and superior corrosion resistance. ZMevo<sup>®</sup> is used throughout our range of coatings.

## Colour freedom

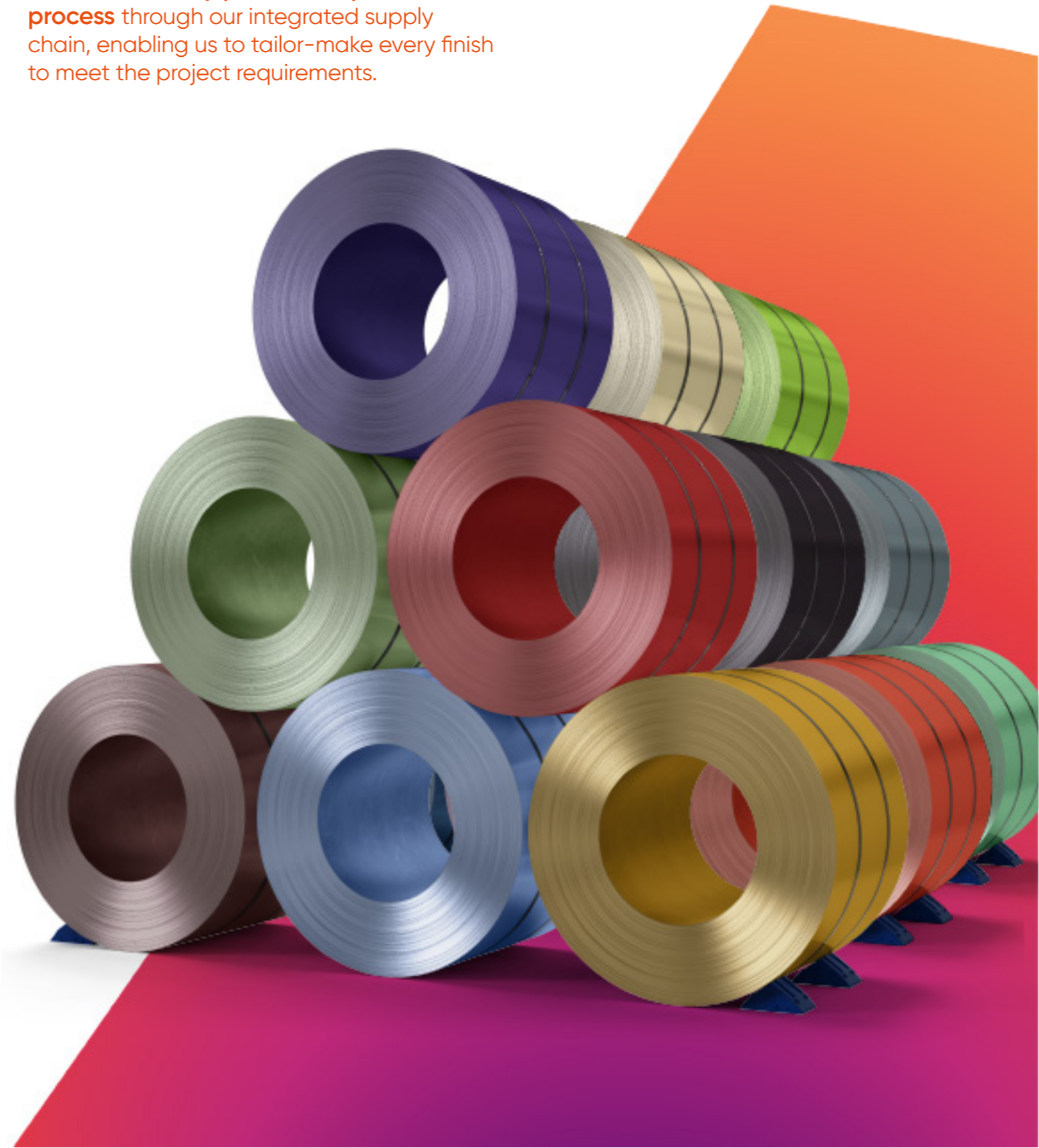
Whatever colour you need, we'll be able to fulfil your requirements. Full manufacturing control of our coils and coatings allow us to provide complete customisation. We also offer a multitude of iridescent, pearlescent, metallic, matte or satin finishes, as well as faux textures – all resistant to severe conditions. Discover our palette of outstanding colours with Colorissime<sup>®</sup> or create your own bespoke colour.

**We control every part of the production process** through our integrated supply chain, enabling us to tailor-make every finish to meet the project requirements.



### ZMevo<sup>®</sup>

This new generation of metallic coating provides superior corrosion protection and a lifespan up to three times longer than standard galvanised coating.



# ArcelorMittal Construction Coldstore



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## XCarb<sup>®</sup>

Recycled and renewably  
produced

Frigothem<sup>®</sup> is also available with XCarb<sup>®</sup> recycled and renewably produced steel from ArcelorMittal that significantly reduces the carbon footprint during production compared to traditional manufacturing.

## Smarter steels for people and planet

[construction.arcelormittal.com](http://construction.arcelormittal.com)

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