

Edition  
English

# DATA CENTER ENVELOPE SOLUTIONS

ADVANCED INSULATION AND CLADDING SYSTEMS FOR  
PERFORMANCE, EFFICIENCY AND SUSTAINABILITY



**ISOPAN**

Manni Group - Marcegaglia J.V.



## ADVANCED BUILDING SOLUTIONS FOR NEXT-GEN DATA CENTERS

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# Certified Efficiency And Safety

Isopan products guarantee efficiency, innovation and safety: perfect thermal and acoustic insulation of buildings, solidity, air-tightness and ideal soundproofing, and help protect them from fire, hindering fire and limiting its spread.

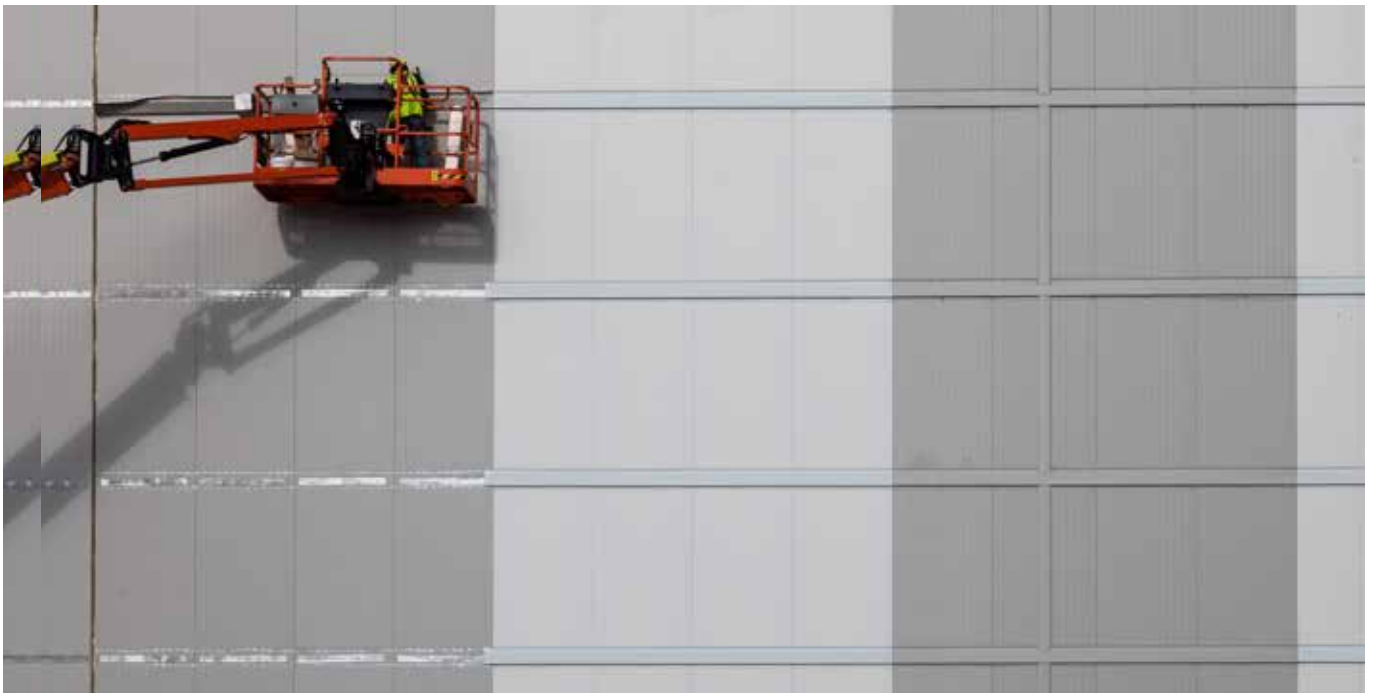
We certify the quality of construction through the use of reliable materials, in full compliance with international standards.

Isopan companies are ISO 9001 certified and the technical compliance of the products is assured according to the standards required by the reference markets.

Isopan panels help to protect buildings against fire, limiting the spread of fire and consequent damage to structures thanks to the best performance achievable on the market, tested in accordance with EN 14509 and EN 13501. Within the Isopan range there are also products with significant acoustic performance: sound attenuation and insulation from one room to another. Finally, the panels are also certified to guarantee the best resistance to wind and driving rain.

Isopan has also obtained FM Approvals for its sandwich panels with mineral wool and PIR insulation. FM Approved products adhere to the highest international standards of quality, technical integrity and performance.

FM Approvals is an international leader in the field of testing and approval services and is part of FM Global, a global building insurance and risk management company.



# Sustainability As An Integrated Approach



LEED® - Leadership in Energy Environmental Design - is a voluntary certification system for the management, design and construction of buildings that are socially, environmentally, economically and socially sustainable.

Started in the United States in 1993 by U.S. Green Building Council (USGBC), LEED is today the world's most widespread standard for sustainability certification of buildings. It considers all areas involving the design and management of buildings or neighbourhoods whether commercial or residential, new or undergoing redevelopment.

Isopan insulation panels contribute to LEED prerequisites and credits. Efficiency and energy savings guide Isopan's production management and our commitment to research and development of innovative solutions. Our roof and wall insulation panels contribute to the prerequisites and credits for LEED BD+C (Building Design and Construction) V4 certification in these areas: INTEGRATIVE PROCESS, SUSTAINABLE SITES, ENERGY AND ATMOSPHERE, MATERIALS AND RESOURCES and INDOOR ENVIRONMENTAL QUALITY.



BREEAM® - Building Research Establishment Environmental Assessment Method is one of the world's most widely used sustainability assessment methods, valid for urban-scale projects, infrastructure and buildings, created by the Building Research Establishment (BRE) in 1990 and applied in over 70 countries worldwide. The system measures the adoption of sustainable practices through parameters that establish precise criteria for the design and construction of healthy, energy efficient and environmentally friendly buildings.

BREEAM promotes innovation, sustainability values and efficiency, developing real estate investments and generating sustainable environments that improve the well-being of people living and working in BREEAM buildings. Source: <http://www.breeam.com/>

Isopan panels contribute credits towards BREEAM NC certification.



An EPD® is a certified environmental product declaration, which provides environmental data on the life cycle of products in accordance with the international standard ISO 14025. Isopan's EPD certificates collect the results of Life Cycle Assessment (LCA) analyses of a wide range of Isopan panels, both polyurethane and rock wool, produced in the Trevenzuolo and Patrica plants.

The use of Isopan products with these certificates provides credits for the main sustainability ratings in construction (e.g. LEED, BREEAM, Building CAM, LBC) and thus allows architects and designers to assess and minimise the impacts generated by the building itself at the design stage, choosing the lowest impact solution.

# Advanced Building Solutions for Next-Gen Data Centers

## THE CURRENT LANDSCAPE AND FUTURE OUTLOOK OF DATA CENTERS

In today's hyper-connected world, data has become the cornerstone of economic growth and technological progress.

The digital revolution — fueled by artificial intelligence, IoT, big data analytics, and 5G — is generating an unprecedented volume of information that requires continuous processing, storage, and transmission. This exponential data growth is driving the global expansion of data centers, transforming them from supporting infrastructure into essential pillars of the digital economy.

Across Europe and around the globe, the demand for data centers is surging. This growth is not only quantitative but also qualitative: the requirements for speed, reliability, and sustainability are reshaping how these facilities are designed and built. At the same time, data centers are becoming strategic assets for countries and enterprises alike, influencing decisions around energy policy, land use, and industrial innovation.

As the digital landscape evolves, future-ready data centers must balance high performance with environmental responsibility, and scalability with resilience. The path ahead will be shaped by emerging technologies, stricter regulations, and growing expectations from both users and stakeholders.

## DEFINITIONS, TYPES, AND CLASSIFICATIONS

A data center is a highly controlled environment designed to host IT systems and support continuous digital operations. Its core functions include processing, storing, and distributing vast amounts of data with maximum security and uptime.

Depending on design objectives and operational needs, data centers are classified according to tier levels (Tier I to Tier IV), which reflect their redundancy, fault tolerance, and availability.

The typologies of data centers continue to diversify. Hyperscale data centers, often run by major cloud providers, are characterized by massive capacity and automation. Edge data centers, smaller and more decentralized, support low-latency applications closer to the end-user.

Colocation facilities offer shared infrastructure, while enterprise data centers are privately owned and tailored to specific business operations. Each typology presents unique requirements in terms of layout, structure, and performance.





## DESIGN AND CONSTRUCTION CHALLENGES

Designing and constructing a modern data center involves addressing some of the most complex challenges in building engineering. The facility must ensure 24/7 operational continuity with zero tolerance for failure.

This requires robust structural systems, advanced monitoring technologies, and reliable backup solutions.

Thermal management is critical, as IT equipment generates significant heat that must be dissipated efficiently. Insulation and passive cooling strategies contribute to performance, while fire protection systems safeguard both data and equipment.

Furthermore, growing pressure to reduce environmental impact is pushing the sector toward greener practices, including energy-efficient designs, renewable energy integration, and circular construction methods.

## THE ROLE OF THE BUILDING ENVELOPE IN DATA CENTER PERFORMANCE

Often underestimated, the building envelope plays a decisive role in the overall performance of a data center. A well-designed envelope supports thermal stability, reduces energy consumption, and protects against external risks.

It contributes to achieving stringent targets for energy efficiency, operational cost reduction, and environmental certification.

The envelope must offer high thermal insulation, excellent airtightness, proven fire resistance, and effective acoustic control. These features are especially important in data centers, where even minor inefficiencies can translate into significant operational costs.

In addition, compliance with green building standards such as LEED, BREEAM, or ISO 50001 is increasingly required in both public and private sectors

## WHY CHOOSE ISOPAN SOLUTIONS FOR DATA CENTERS

With decades of experience in advanced building envelopes, Isopan is a trusted partner for the construction of high-performance data centers. Our insulated sandwich panel systems are engineered to meet the demanding needs of digital infrastructure—combining excellent thermal and fire performance with fast installation and long-term durability.

Isopan solutions offer tangible advantages: optimized energy efficiency, reduced cooling loads, robust fire protection, and architectural flexibility. Our building systems are suitable for new constructions, expansions, and retrofits alike—allowing clients to adapt quickly to evolving capacity and compliance needs.

Committed to innovation and sustainability, Isopan integrates circular economy principles, recyclable materials, and certified performance into every product line.

By choosing Isopan, stakeholders in the data center ecosystem gain not only a reliable technical solution, but a partner aligned with the values of efficiency, safety, and environmental stewardship.

# The importance of rock wool insulation for data centers

In the high-tech, high-performance landscape of data centers, the reliability of physical infrastructure is a strategic factor for ensuring digital service continuity. The building envelope—often underestimated—plays a crucial role in ensuring safety, energy performance, and environmental comfort. In this context, the use of insulated panels with a rock wool core represents a cutting-edge solution capable of meeting the most stringent requirements in terms of passive protection, efficiency, and sustainability.



up to EI 240  
A2, s1 - d0

## **SUPERIOR PASSIVE FIRE PROTECTION:**

Rock wool is classified as a non-combustible material (Euroclass A1) and offers effective fire compartmentation. In the event of fire, panels with a rock wool core ensure prolonged structural stability, integrity, and thermal insulation, protecting critical equipment and enabling safe and timely evacuation. Isopan's Isofire product line is certified for fire resistance up to EI 240 minutes, making it ideal for high-risk technological environments.



money saving  
thermal performance

## **STABLE AND CONTINUOUS THERMAL INSULATION:**

Thanks to its oriented fiber structure and controlled density, rock wool ensures high and consistent thermal performance, even in environments subject to extreme temperature fluctuations. This leads to a significant reduction in loads on HVAC systems, lower energy consumption, and a stable internal temperature—crucial for server operation continuity.



acoustic performance  
up to 34 dB

## **SUPERIOR ACOUSTIC PERFORMANCE:**

Data centers, especially those in urban or multipurpose building contexts, must guarantee adequate acoustic insulation. Rock wool's porous structure absorbs sound waves, reducing noise generated by equipment and systems, and supporting compliance with environmental noise regulations. Isofire panels offer sound insulation performance of up to 34 dB.



sustainability  
standards

## **DURABILITY AND ENVIRONMENTAL VALUE:**

Rock wool is resistant to moisture, thermal shock, and aging, maintaining its performance throughout the panel's lifecycle. It is also a recyclable material and complies with the highest environmental sustainability standards (EPD, LEED, BREEAM, CAM), supporting data center design aligned with ESG criteria and green building certifications.

The use of rock wool in Isopan wall and roof systems for data centers ensures industrialized, high-performance, and certified solutions designed to meet the safety, efficiency, and fast-installation needs of modern digital infrastructure hubs. A solid and forward-thinking choice for those designing the future of digital infrastructure.




# Product Solution


Isopan offers advanced solutions for data centers, designed to meet the specific needs of the sector through the use of highly innovative and high-performance materials.


Our solutions, including sandwich panels for walls, roofs, and flat roofing, are ideal for any type of application, ensuring excellent standards of quality, durability, and sustainability.


Each product is engineered to deliver outstanding performance in complex and dynamic environments, optimizing installation times and operational costs. The following distinctive features define Isopan's solutions:


Features	Advantages	Benefits
 <b>wall solutions</b>	Lightweight yet sturdy, aesthetic flexibility	Easy and quick to install, reducing labor effort, lower energy costs due to improved insulation, enhanced design appeal and adaptability
 <b>roof solutions</b>	High load-bearing capacity, superior thermal and waterproofing performance, long lifespan with minimal maintenance	Reduced structural requirements, lowering costs, improved energy efficiency and protection against leaks, longer intervals between repairs, lowering maintenance expenses
 <b>flat roof solutions</b>	Lightweight design, excellent thermal insulation and waterproofing, suitable for green roofs or solar panels installation	Reduced structural load, enabling cost-effective design, lower energy consumption due to better insulation, increased functionality, supporting sustainable and energy-efficient solutions
 <b>prefabricated</b>	Regular quality control, ready to install, produced in controlled environment, permanent quality	Reduced costs, reduced construction time, reduced quality risk, lower labor and installation costs due to ease of use
 <b>high spans</b>	Elements up to 6,5 m long	Reduced amount of substructure
 <b>extreme thermal value</b>	Superior insulation performance in extreme temperatures Prevents heat loss or gain efficiently	Reduced energy consumption for heating and cooling Improved temperature stability in controlled environments Enhanced comfort and performance in extreme climates, reducing operational costs
 <b>mineral wool solution</b>	High level of fire resistance, non-combustibility	Ultimate fire safety, reduced insurance premiums, product for higher buildings (A2)
 <b>water tightness</b>	Exceptional sealing against water penetration Resistant to rain, snow, and humidity Effective at high pressure conditions	Prevents water damage, reducing maintenance costs Enhances building durability and longevity Improves indoor comfort by preventing dampness and mold growth
 <b>air tightness</b>	Prevents air leakage Reduces drafts and heat loss Maintains indoor air quality	Lower energy consumption and heating/cooling costs Enhanced comfort with stable indoor temperatures Improved building performance and reduced risk of condensation and moisture issues
 <b>prepainted skins</b>	High-quality, durable finish Resistant to corrosion and UV damage Available in various colors and finishes	Extended lifespan with less maintenance Enhanced aesthetic appeal with consistent color Improved weather resistance, reducing the need for frequent repairs or repainting
 <b>sound absorbing</b>	High sound attenuation properties Effective in controlling noise levels Suitable for both interior and exterior applications	Improved acoustic comfort in buildings Reduced noise pollution, creating a more pleasant environment Increased privacy and productivity in noisy areas
 <b>burglary resistance</b>	Class RC3 of Burglary resistance	Safety of personnel and equipment in the building
 <b>98% recyclable</b>	High percentage of recyclable material Environmentally friendly production Reduces landfill waste	Supports sustainability goals and eco-friendly practices Lower environmental impact through reduced waste Potential cost savings in waste disposal and recycling programs
 <b>warranties</b>	Robust, durable and high quality coatings	Easy & low-cost maintenance, 10-30 years warranty against corrosion

Isofire Wall			
	<b>Fields of application:</b>	Internal	External
	<b>Facing materials:</b>	Pre-painted metal sheet	
	<b>Available thickness [mm]:</b>	50 - 60 - 80 - 100 - 120 - 150 - 170 - 200 - 240	
	<b>Fire performance:</b>	Reaction to fire [EN 13501-1] A2,s1-d0	Fire resistance [EN 13501-2; EN 14509] up to EI 240 - 200mm

Isoparete Fire Evo			
	<b>Fields of application:</b>	External	
	<b>Facing materials:</b>	Pre-painted metal sheet	
	<b>Available thickness [mm]:</b>	60 - 80 - 100 - 120 - 150 - 170 - 200	
	<b>Fire performance:</b>	Reaction to fire [EN 13501-1] A2,s1-d0	Fire resistance [EN 13501-2] EI 120 - 200mm

Isofire Roof			
	<b>Fields of application:</b>	Wall	Roof
	<b>Facing materials:</b>	Pre-painted metal sheet	
	<b>Available thickness [mm]:</b>	50 - 60 - 80 - 100 - 120 - 150 - 170 - 200	
	<b>Fire performance:</b>	Reaction to fire [EN 13501-1] A2,s1-d0	Fire resistance [EN 13501-2; EN 14509] EI 240 - 200mm

Isofire Roof Deck			
	<b>Fields of application:</b>	Flat roof	
	<b>Facing materials:</b>	Pre-painted metal sheet	
	<b>Available thickness [mm]:</b>	50 - 60 - 80 - 100 - 120 - 150 - 170 - 200	
	<b>Fire performance:</b>	Reaction to fire [EN 13501-1] A2,s1-d0	Fire resistance [EN 13501-2] EI 120 - 120mm

Isodeck Pvsteel MW			
	<b>Fields of application:</b>	Flat roof	
	<b>Facing materials:</b>	Pre-painted metal sheet with PVC/TPO	
	<b>Available thickness [mm]:</b>	50 - 60 - 80 - 100 - 120 - 150 - 170 - 200	
	<b>Fire performance:</b>	Reaction to fire [EN 13501-1] B,s1-d0	Fire resistance [EN 13501-2] EI 120 - 120mm

# **MARCEGAGLIA** **CARBON STEEL**

Marcegaglia is the partner chosen by Isopan to make a difference in projects where performance drives the choice of solutions.

Identified by our R&D department as a supplier of pre-painted steel for our panels, Marcegaglia guarantees high standards at every stage: material quality, production reliability, and solutions designed to last.

An exclusive collaboration that provides added value to every project: technical performance, customized aesthetics, and maximum creative freedom for architects and designers.

Marcegaglia is undoubtedly synonymous with production sustainability and effective service reliability.

## **STRENGTHS:**

- Advanced technology and process digitalisation
- Fully controlled vertical supply chain
- Wide range of paint finishes and customisations
- Environmental sustainability integrated into production processes
- Direct technical support for design and customisation

## **QUALITY CERTIFICATIONS**

Marcegaglia's pre-painted solutions are manufactured according to the highest standards of quality control and safety, ensuring technical reliability and regulatory compliance at European and international level. Certifications include:

### **EN 10169 / EN 13523:**

European standards defining the technical requirements and test methods for coated metals.

### **ISO 9001 , 14001, 45001 and 50001:**

certifications attesting to the integrated management of the company's processes.

### **REACH / RoHS:**

compliance with European regulations on the restriction and management of hazardous chemicals.

### **VOC – A+ Class:**

minimal emissions of volatile organic compounds, with positive effects on indoor health and sustainability.

### **LCA / POPs:**

life cycle assessment and compliance with the regulation on persistent organic pollutants.

### **CLASS A1 REACTION TO FIRE:**

certified non-combustibility of the product.

These certifications make Marcegaglia pre-painted steels a safe choice that complies with the requirements of the most modern international technical specifications.

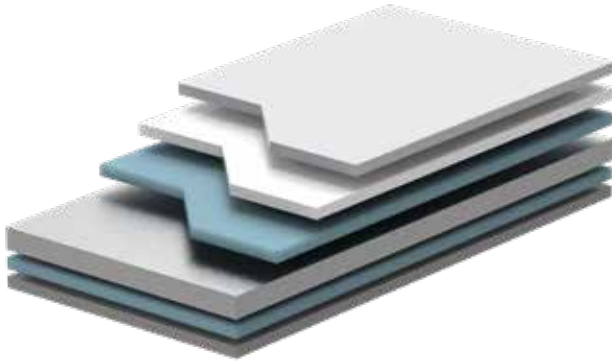


## MP3 Z140: Coateel® BaseLine

Marcegaglia Carbon Steel

Warranty up to:  
**10 years**

Standard 25-micron polyester base coating, ideal for general applications and low environmental aggression contexts.



### Composition

1	Top Coat	Standard Polyester Paint (20 µm)
2	Primer	Polyester primer (5 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z140 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (5-7 µm)

### Specifications

Painting system	Standard Polyester
Total paint thickness (front)	25 µm
Base	Z140 Galvanised steel
Finish	Smooth, semi-glossy
UV resistance	RUV2
Corrosion class	RC2
Durability in RC3/RC4 environments	Up to 10 years
Reaction to fire	Class A1
Recyclability	100%

MP3 Z140: Coateel® BaseLine is an entry-level pre-painted steel developed by Marcegaglia to ensure good surface protection and uniform aesthetics in applications that are not particularly exposed. It is a cost-effective solution for low-aggression environments where standard but reliable performance is required.

#### RECOMMENDED APPLICATIONS

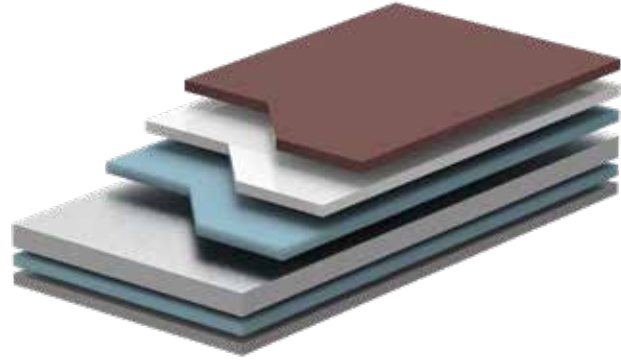
- Sandwich panels for indoor or covered environments
- Technical countertops and lightweight partitions
- Cladding for dry environments or environments with low aggression
- Solutions for prefabricated buildings, warehouses, and industrial buildings

## MP5: Coateel® EcoLine

Marcegaglia Carbon Steel

Warranty up to:  
**12 years**

High-performance intermediate coating, ideal for economical and durable solutions. 25-micron super polyester/polyurethane formulation.



### Composition

1	Top Coat	Super Polyester Paint (20 µm)
2	Primer	Epoxy-polyester primer (5 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z225 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (5-7 µm)

### Specifications

Painting system	Super Polyester - Polyurethane
Total paint thickness (front)	25 µm
Base	Z225 Galvanised steel
Finish	Smooth
UV resistance	RUV3
Corrosion class	RC3
Durability in RC3/RC4 environments	Up to 12 years
Reaction to fire	Class A1
Recyclability	100%

MP5 Coateel® EcoLine pre-painted steel is a galvanised carbon steel substrate coated with a high-performance Super Polyester paint system, ideal for outdoor applications.

Thanks to its high UV resistance and good corrosion resistance, it is suitable for use in industrial construction, roofing, and walls with prolonged exposure to sunlight.

#### RECOMMENDED APPLICATIONS

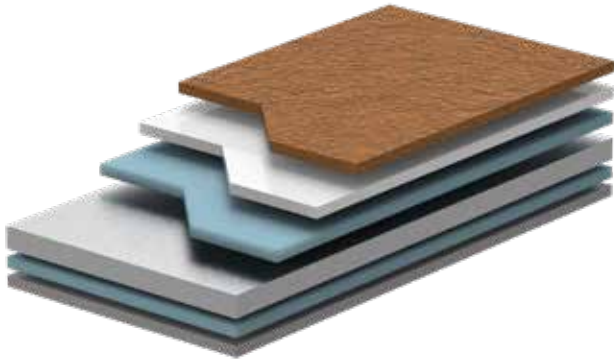
- Metal roofing
- Walls of industrial buildings
- Metal cladding for exteriors
- Light carpentry for exteriors

## MP20: Coateel® GreenSkin

Marcegaglia Carbon Steel

High-performance coating with excellent durability and resistance, ideal for demanding applications.

Warranty up to:  
**30 years**



### Composition

1	Top Coat	Polyurethane-polyamide (30 µm)
2	Primer	High-adhesion primer (30 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (12 µm)

### Specifications

Painting system	PUR-PA
Total paint thickness (front)	60 µm
Base	Z275 Galvanised steel
Finish	Embossed or leather effect
UV resistance	RUV4
Corrosion class	RC5
Durability in RC5 environments	Up to 30 years
Reaction to fire	Class A1
Recyclability	100%

MP20 Coateel® GreenSkin is a pre-painted steel with a protective coating based on plasticised polyamide paint. It offers superior coating thickness (up to 200 µm) and is designed for environments with high chemical or mechanical aggression. Ideal for applications requiring high resistance to scratches, impacts, atmospheric agents, and corrosive substances.

#### RECOMMENDED APPLICATIONS

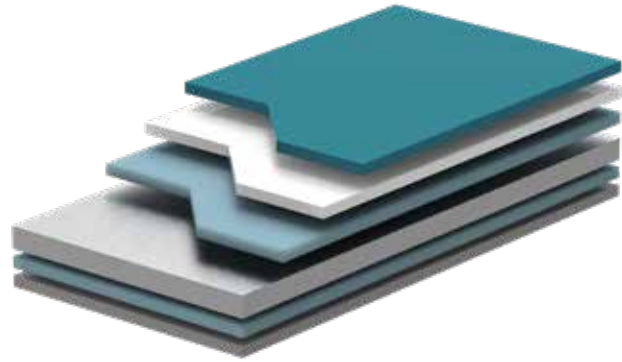
- Marine and coastal environments
- Roofing and cladding in heavy industry
- Structures subject to severe mechanical wear
- Cold storage rooms and environments with high humidity

## MPS200: Coateel® ArmorMax

Marcegaglia Carbon Steel

Maximum protection in aggressive environments, with low-VOC formulations.

Warranty more than:  
**30 years**



### Composition

1	Top Coat	PVC
2	Primer	High-performance primer
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (12 µm)

### Specifications

Painting system	PVC
Total paint thickness (front)	200 µm
Base	ZM120 Galvanised steel
Finish	Smooth or embossed
UV resistance	RUV4
Corrosion class	RC5
Durability in RC5 environments	More than 30 years
Reaction to fire	Class C s2 d0
Recyclability	NPD

MPS200 Coateel® ArmorMax is a high-performance pre-painted steel developed by Marcegaglia, designed for applications in environments particularly exposed to aggressive conditions. This product is a high-level solution for the manufacture of sandwich panels and cladding systems where excellent anti-corrosion properties and high durability over time are required.

#### RECOMMENDED APPLICATIONS

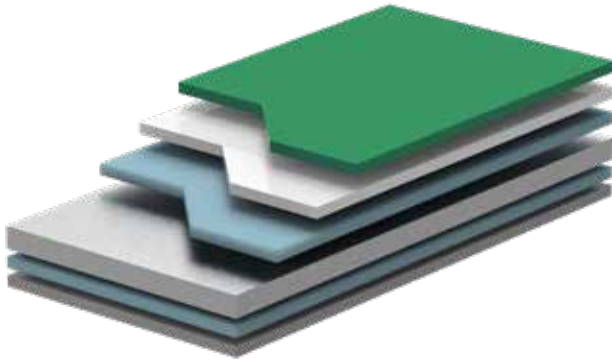
- Marine, coastal, or urban areas with high salinity or pollution.
- Roofing and cladding with high sun exposure
- Structures subject to severe chemical aggression
- High-durability and low-maintenance prefabricated systems.

## MPSH: Coateel® Shimoco

Marcegaglia Carbon Steel

High-hardness, long-lasting finish, resistant to scratches and wear.

Warranty up to:  
**30 years**



### Composition

1	Top Coat	Modified polyester (30 µm)
2	Primer	High-performance primer (30 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Protective rear finish (12 µm)

### Specifications

Painting system	Modified polyester
Total paint thickness (front)	60 µm
Base	Z275 Galvanised steel
Finish	Embossed
UV resistance	RUV4
Corrosion class	RC5
Durability in RC5 environments	Up to 30 years
Reaction to fire	NPD
Recyclability	100%

MPSH Coateel® Shimoco pre-painted steel uses a high-performance modified polyester-based coating system designed for extremely aggressive environments. It combines excellent color stability with outstanding corrosion resistance, making it ideal for applications in coastal areas, heavy industrial environments, or areas subject to intense solar radiation.

#### RECOMMENDED APPLICATIONS

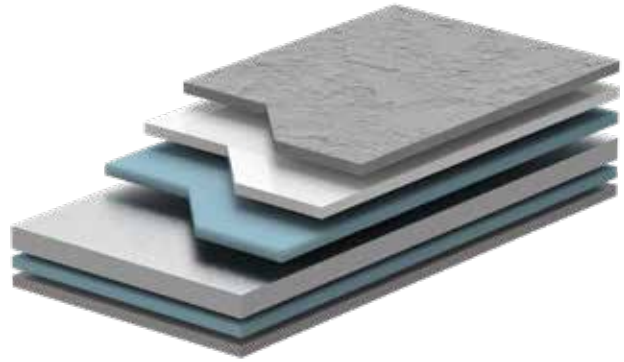
- Cladding for buildings in aggressive environments
- Facades and roofing in coastal areas
- Industrial and chemical plants
- High-profile buildings exposed to the sun

## MP4AS: Coateel® UrbanSkin

Marcegaglia Carbon Steel

Matte and rough finish, with a textured aesthetic, ideal for modern architecture.

Warranty up to:  
**12 years**



### Composition

1	Top Coat	Modified polyester paint (20 µm)
2	Primer	Epoxy primer (15 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z140 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (5-7 µm)

### Specifications

Painting system	Modified polyester
Total paint thickness (front)	35 µm
Base	Z140 Galvanised steel
Finish	Smooth or slightly embossed
UV resistance	RUV2
Corrosion class	RC4
Durability in RC3 environments	Up to 12 years
Reaction to fire	Class A1
Recyclability	100%

MP4AS Coateel® UrbanSkin is a pre-painted steel with a modified polyester coating, developed for standard applications that require good weather resistance and an attractive finish. It is the most economical solution in the range, while maintaining good durability and excellent workability.

#### RECOMMENDED APPLICATIONS

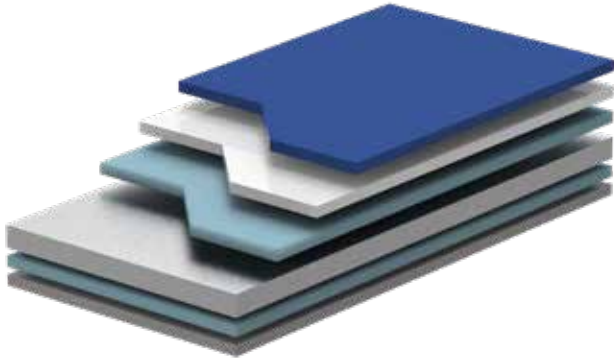
- Roofing and walls in low-aggression areas
- Light metal carpentry
- Standard residential and industrial construction
- Interior cladding or non-exposed screens

## MP10: Coateel® Fluo Tech

Marcegaglia Carbon Steel

Semi-gloss fluorinated coating with high resistance to atmospheric agents, ideal for long-lasting outdoor applications.

Warranty up to:  
**15 years**



### Composition

1	Top Coat	PVDF paint (20 µm)
2	Primer	Epoxy-polyester primer (5 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (5-7 µm)

### Specifications

Painting System	PVDF + Primer
Total paint thickness (front)	25 µm
Base	Z275 Galvanised steel
Finish	Smooth
UV resistance	RUV4
Corrosion class	RC3
Durability in RC3/RC4 environments	Up to 15 years
Reaction to fire	Class A1
Recyclability	100%

MP10 Coateel® Fluo Tech pre-painted steel features a PVDF (polyvinylidene fluoride)-based coating system, characterised by exceptional UV resistance and colour stability over time. It is designed for applications in particularly aggressive environments, including coastal and industrial areas, where durability and long-term reliability are essential requirements.

#### RECOMMENDED APPLICATIONS

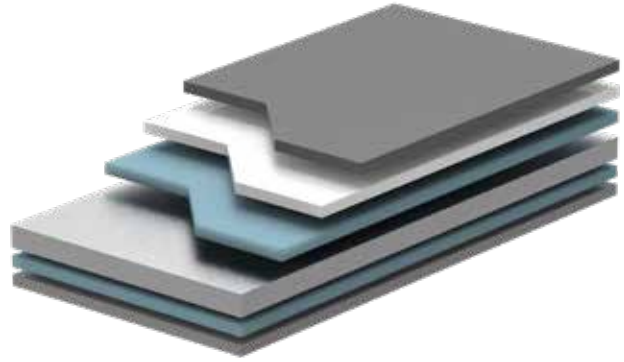
- Facades in marine environments
- High-exposure industrial buildings
- Durable metal cladding
- Valuable architectural elements

## MP10AS: Coateel® Fluo Tech 35

Marcegaglia Carbon Steel

35-micron semi-gloss fluorinated coating with excellent resistance and anti-fingerprint finish.

Warranty up to:  
**20 years**



### Composition

1	Top Coat	PVDF paint (20 µm)
2	Primer	High-performance primer (15 µm)
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Protective rear finish (5-7 µm)

### Specifications

Painting system	PVDF
Total paint thickness (front)	35 µm
Base	ZM120 Galvanised steel
Finish	Smooth
UV resistance	RUV4
Corrosion class	RC4
Durability in RC3 environments	Up to 20 years
Reaction to fire	Class A1
Recyclability	100%

MP10AS Coateel® Fluo Tech 35 is a high-performance pre-painted steel, ideal for applications in aggressive environments that require high durability, corrosion protection, and aesthetic appeal. Thanks to its high-thickness multi-layer cycle and strong film adhesion, it is perfect for roofing, facades, and Isopan sandwich panels in industrial, architectural, and logistical applications.

#### RECOMMENDED APPLICATIONS

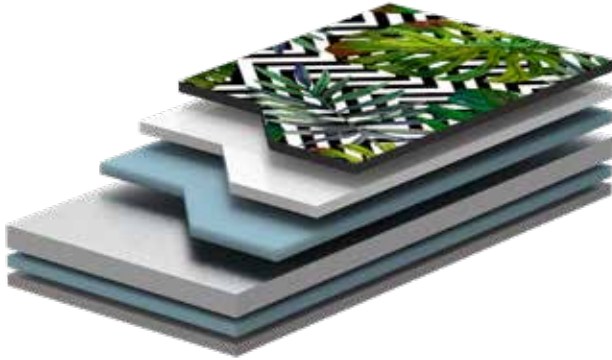
- Architectural facades of modern buildings
- External cladding with high climatic requirements
- Structures in industrial, logistical, and infrastructural contexts
- Environments with high humidity or the presence of chemicals

## CROMATICA®

### Marcegaglia Steel

Warranty up to:  
**15 years**

Highly customisable pre-painted steel surface: featuring the possibility of custom graphics, three-dimensional effects, textures, and special finishes.



## Composition

1	Digital finish	Multi-layer inkjet printing + protective varnish
2	Primer	High-performance primer
3	Chemical treatment	Chemical conversion coating
4	Galvanised steel	Z225 or Z275 steel base
5	Chemical treatment	Chemical conversion coating
6	Back Coat	Epoxy rear finish (5-7 µm)

## Specifications

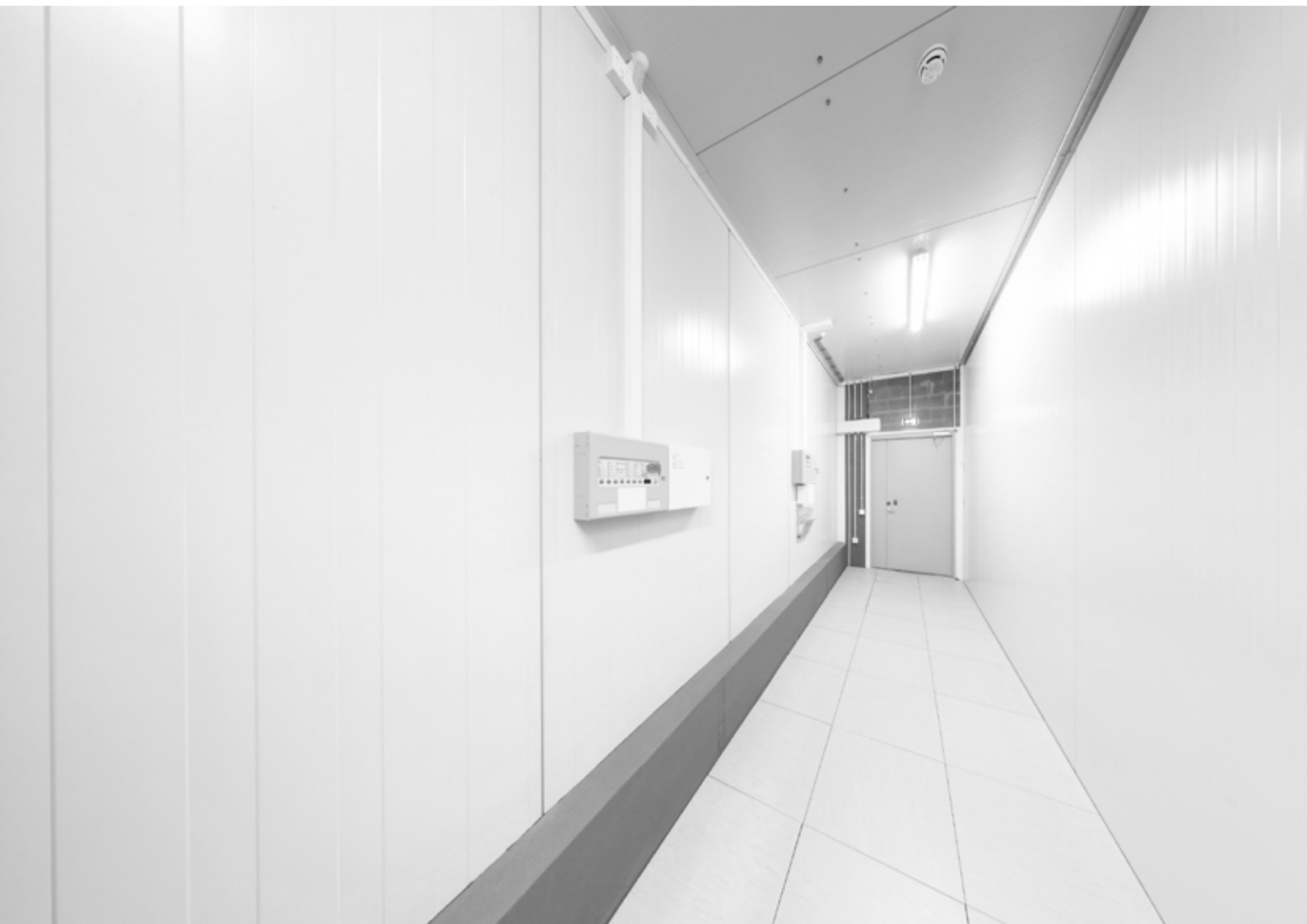
Technology	Inkjet printing + protective varnish
Total paint thickness (front)	35-40 µm
Base	Z225 / Z275 Galvanised steel
Finish	Custom: graphics / textures
UV resistance	RUV4
Corrosion class	RC3 / RC4
Durability in RC3 environments	Up to 15 years
Reaction to fire	Class A1
Recyclability	100%

CROMATICA® is a pre-painted steel with high aesthetic impact, developed by Marcegaglia to offer maximum creative freedom through digital printing. The system allows images, textures, logos, or complex patterns to be reproduced directly onto the metal base, combining functionality, durability, and customised design. It is an ideal solution for distinctive architectural applications and high-added-value custom projects.

### RECOMMENDED APPLICATIONS

- Decorative architectural facades
- Signs, identification panels, and branding
- Street furniture or interior design elements
- Special projects with custom graphics



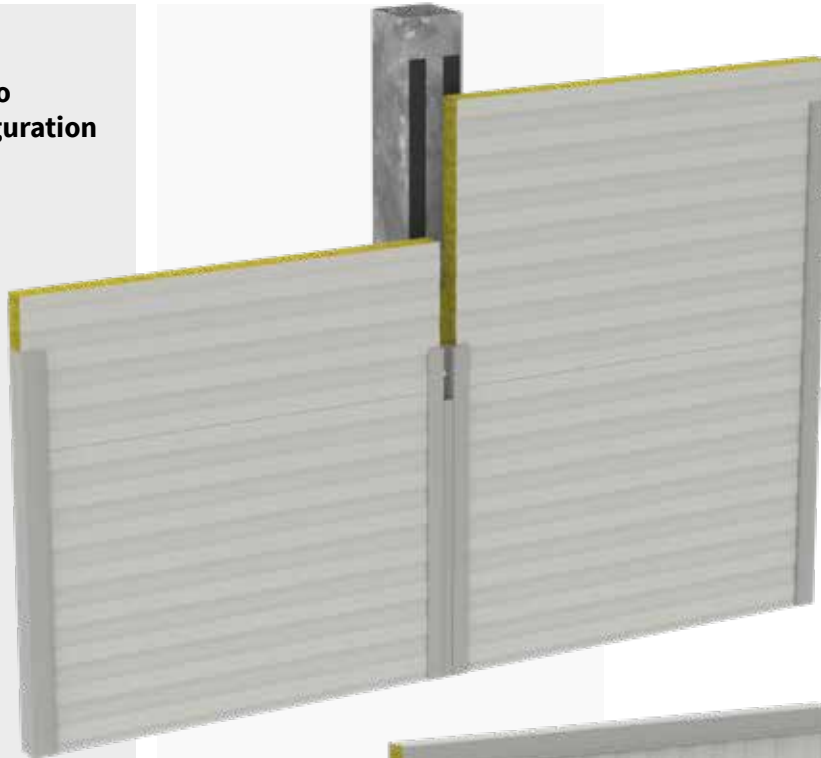


# Facades and Walls

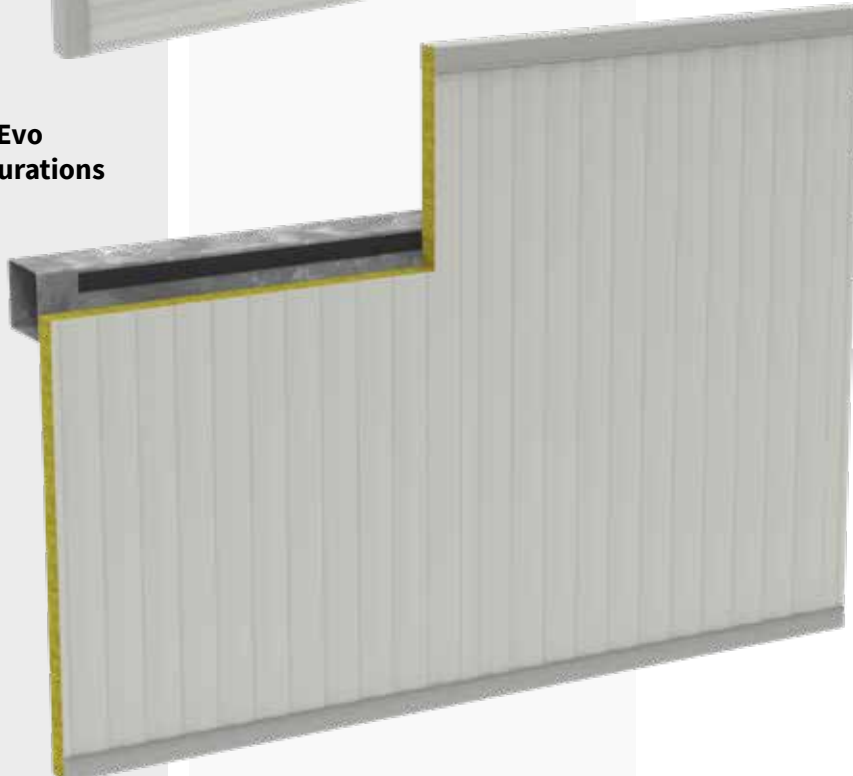
Wall and façade panels are an ideal solution for data centers due to their ability to adapt to complex design needs. The various available surface finishes allow a combination of aesthetics and functionality, ensuring a modern design with excellent technical performance.

Panels can also be equipped with a sound-absorbing side, a particularly useful option for acoustic control, contributing to the creation of quieter and more comfortable environments.

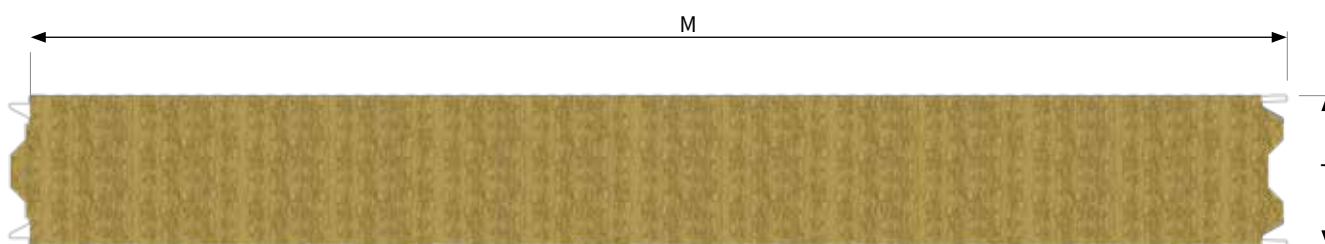
**Isofire Wall  
Isoparete Fire Evo  
Horizontal configuration**



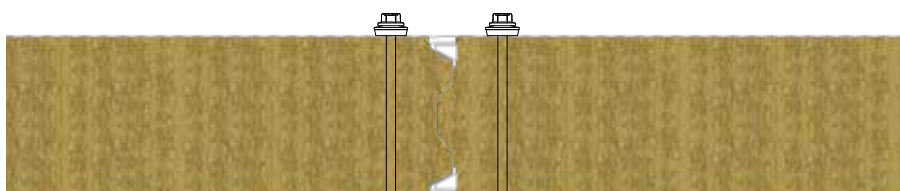
**Isofire Wall  
Isoparete Fire Evo  
Vertical configurations**



# Isofire Wall



## Detail of modular interlocking



## Useful width - "M"

1000 mm

## Available length

On request

## Insulation

Rock fibre mineral wool feldspatica  
Nominal density 100 kg/m<sup>3</sup>

## Facing materials

External metal sheet: Pre-painted sheet  
Internal metal sheet: Pre-painted sheet

## Acoustic Performance

Any acoustic performance must be specifically requested when ordering.

### ACOUSTIC INSULATION RW

34 dB (150mm)

30 dB (80mm)

## Fire Performance

Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan

### Reaction to fire (EN 13501-1)

A2-s1,d0

### Fire resistance (EN 13501-2)

EI 240 - 200mm

EI 240\* - 170mm

EI 180 - 150mm

EI 120 - 120mm

EI 120\* - 100mm

EI 60 - 80mm

EI 30 - 60mm

EI30\* - 50mm

\*with assembly instructions

## FM Approved

On request, available with FM Approved certification



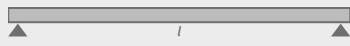
BREEAM®



CE

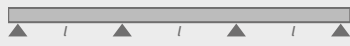
**Capacity tables**

Steel sheets  
 Sheet thickness  
 0,5mm - External  
 0,5mm - Internal  
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]								
	50	60	80	100	120	150	170	200	240
	Maximum Span "l" [cm]								
50	440	480	540	610	670	755	805	890	960
60	390	430	495	570	625	700	750	825	895
80	310	355	425	500	550	615	650	715	770
100	250	295	365	440	490	550	580	630	680
120	210	250	315	385	435	495	525	565	610
140	180	210	275	340	390	440	475	510	550
160	160	185	245	300	350	400	435	465	500
180	145	165	220	270	320	360	395	425	450
200	130	150	205	250	295	330	360	390	415

**Capacity tables**

Steel sheets  
 Sheet thickness  
 0,5mm - External  
 0,5mm - Internal  
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]								
	50	60	80	100	120	150	170	200	240
	Maximum Span "l" [cm]								
50	390	420	460	500	540	580	630	670	700
60	345	380	415	450	490	520	550	585	620
80	270	310	345	370	400	425	450	485	520
100	210	250	285	310	335	355	375	405	430
120	180	205	240	265	285	305	325	350	370
140	155	175	210	230	250	265	280	300	320
160	130	155	185	205	220	230	245	265	290
180	120	135	165	180	195	205	220	240	260
200	110	120	150	165	180	190	205	220	240

Calculation for static dimensioning carried out according to the contents of Annex E of EN standard 14509. Deflection limit 1/200 l. The values shown in the capacity tables do not take into account the thermal load.

**Technical specifications**  
**Available thickness 'T'**

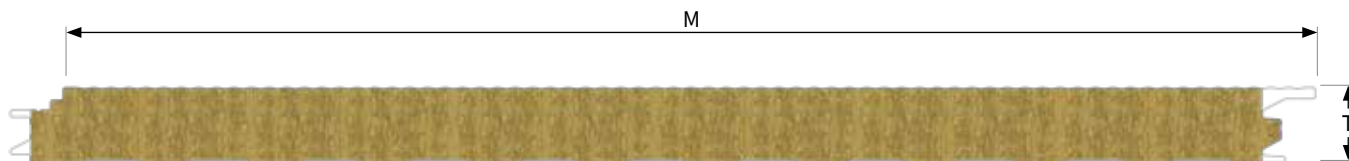
Thermal insulation 'U' according to EN 14509 - A.10.  
 The weight considers panels with steel sheets, nominal thickness indicated in the table.


T [mm]	Thermal Insulation - U		[Kg/m <sup>2</sup> ]	
	[W/m <sup>2</sup> K]	[kcal/m <sup>2</sup> h °C]	0,5mm	0,6mm
50	0,75	0,65	13,2	14,9
60	0,63	0,54	14,2	15,9
80	0,49	0,42	16,2	17,9
100	0,39	0,34	18,2	19,9
120	0,33	0,28	20,2	21,9
150	0,27	0,23	23,2	24,9
170	0,24	0,21	25,2	26,9
200	0,20	0,17	28,2	28,9
240	0,17	0,15	32,2	32,9

**Instructions for use and dimensional tolerances**

consult the Technical Manual, General Sales Conditions and Annexes available on the website.

# Isoparete Fire Evo



<b>Detail of modular interlocking</b>														
<b>Useful width - "M"</b>	1000 mm													
<b>Available length</b>	On request													
<b>Insulation</b>	Rock fibre mineral wool feldspatica Nominal density 100 kg/m <sup>3</sup>													
<b>Facing materials</b>	External metal sheet: Pre-painted sheet Internal metal sheet: Pre-painted sheet													
<b>Acoustic Performance</b> Any acoustic performance must be specifically requested when ordering.	<table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="2" style="background-color: #cccccc;">ACOUSTIC INSULATION RW</th> </tr> <tr> <td colspan="2">30 dB (80mm)</td> </tr> </table>		ACOUSTIC INSULATION RW		30 dB (80mm)									
ACOUSTIC INSULATION RW														
30 dB (80mm)														
<b>Fire Performance</b> Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #cccccc;">Reaction to fire (EN 13501-1)</th> <th style="background-color: #cccccc;">Fire resistance (EN 13501-2)</th> </tr> </thead> <tbody> <tr> <td>Up to A2-s1,d0</td> <td>EI 120 - 200mm</td> </tr> <tr> <td></td> <td>EI 90 - 150mm</td> </tr> <tr> <td></td> <td>EI 60 - 120mm</td> </tr> <tr> <td></td> <td>EI 45 - 100mm</td> </tr> <tr> <td></td> <td>EI 30 - 60mm</td> </tr> </tbody> </table>		Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)	Up to A2-s1,d0	EI 120 - 200mm		EI 90 - 150mm		EI 60 - 120mm		EI 45 - 100mm		EI 30 - 60mm
Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)													
Up to A2-s1,d0	EI 120 - 200mm													
	EI 90 - 150mm													
	EI 60 - 120mm													
	EI 45 - 100mm													
	EI 30 - 60mm													
<b>FM Approved</b>	On request, available with FM Approved certification <div style="text-align: right; margin-top: 20px;">  </div>													

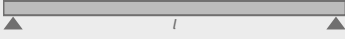
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**Capacity tables**

Steel sheets  
 Sheet thickness  
 0,5 mm - External  
 0,5 mm - Internal  
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]						
	60	80	100	120	150	170	200
	Maximum Span "l" [cm]						
50	480	540	610	670	755	805	890
60	430	495	570	625	700	750	825
80	355	425	500	550	615	650	715
100	295	365	440	490	550	580	630
120	250	315	385	435	495	525	565
140	210	275	340	390	440	475	510
160	185	245	300	350	400	435	465
180	165	220	270	320	360	395	425
200	150	205	250	295	330	360	390

**Capacity tables**

Steel sheets  
 Sheet thickness  
 0,5 mm - External  
 0,5 mm - Internal  
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]						
	60	80	100	120	150	170	200
	Maximum Span "l" [cm]						
50	420	460	500	540	580	630	670
60	380	415	450	490	520	550	585
80	310	345	370	400	425	450	485
100	250	285	310	335	355	375	405
120	205	240	265	285	305	325	350
140	175	210	230	250	265	280	300
160	155	185	205	220	230	245	265
180	135	165	180	195	205	220	240
200	120	150	165	180	190	205	220

Calculation for static dimensioning carried out according to the contents of Annex E of EN standard 14509. Deflection limit 1/200 l. The values shown in the capacity tables do not take into account the thermal load.

**Technical specifications  
 Available thickness 'T'**

Thermal insulation 'U' according to EN 14509 - A.10.  
 The weight considers panels with steel sheets, nominal thickness indicated in the table.

T [mm]	Thermal Insulation - U		[Kg/m <sup>2</sup> ]	
	[W/m <sup>2</sup> K]	[kcal/m <sup>2</sup> h °C]	0,5 mm	0,6 mm
60	0,72	0,62	14,2	15,9
80	0,52	0,44	16,2	17,9
100	0,41	0,36	18,2	19,9
120	0,34	0,29	20,2	21,9
150	0,28	0,24	23,2	24,9
170	0,24	0,21	25,2	26,9
200	0,20	0,17	28,2	28,9

**Instructions for use and dimensional tolerances**

consult the Technical Manual, General Sales Conditions and Annexes available on the website.

# Exteriors Finishing

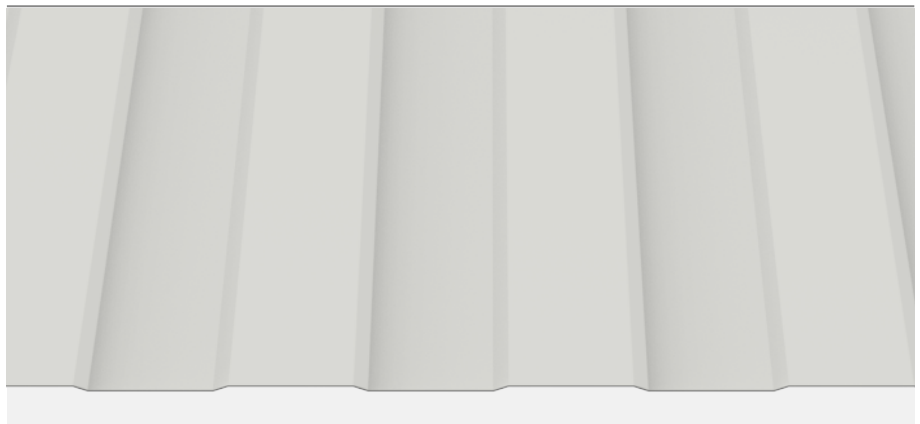
## PLISSE

A micro-ribbed masterpiece, the Plissé finish combines elegance with hidden-fix perfection. Featuring a fine, micro-profiled texture on a seamless façade, it not only elevates aesthetic appeal but also simplifies installation with its concealed joint system. Plissé delivers a refined, uninterrupted surface that subtly plays with light and shadow — perfect for seamless, sophisticated designs.



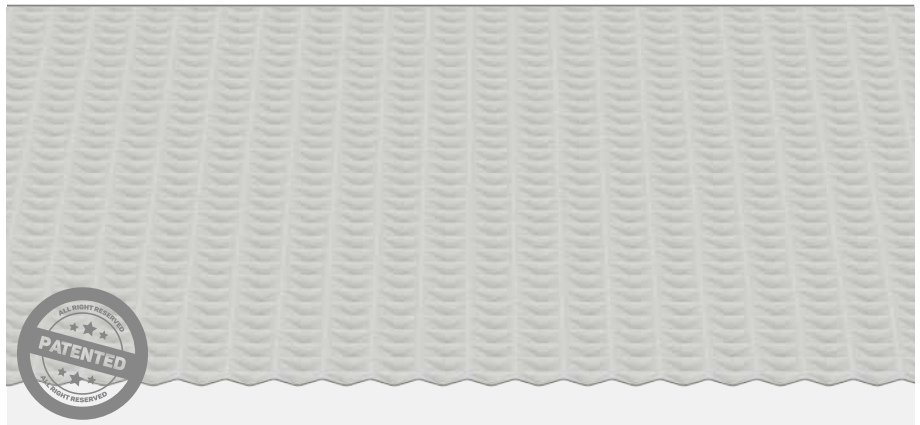
## BOX

The Box finish offers a bold, linear aesthetic with crisp, modular form — an ideal complement to modern architectural styles. With its robust tongue-and-groove profile and concealed joint system, Box combines structural strength and refined visual impact. Its design-driven geometry creates striking shadow lines and consistent rhythm, making it perfect for sleek building envelopes that demand both endurance and contemporary flair.



## DIAMOND

Introducing the exclusive Diamond finish, named for its jewel-like facets that marvelously react to light. The sculpted diamond-pattern surface creates multi-tone depth and engaging visual dynamics across large surfaces. Developed for strength and style, the finish enhances metal rigidity and stability even under thermal stress, while offering a rich, architectural statement in any color—including the exclusive Tech Black or Premium palette.

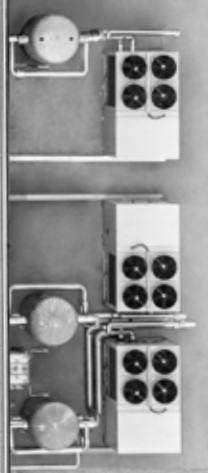
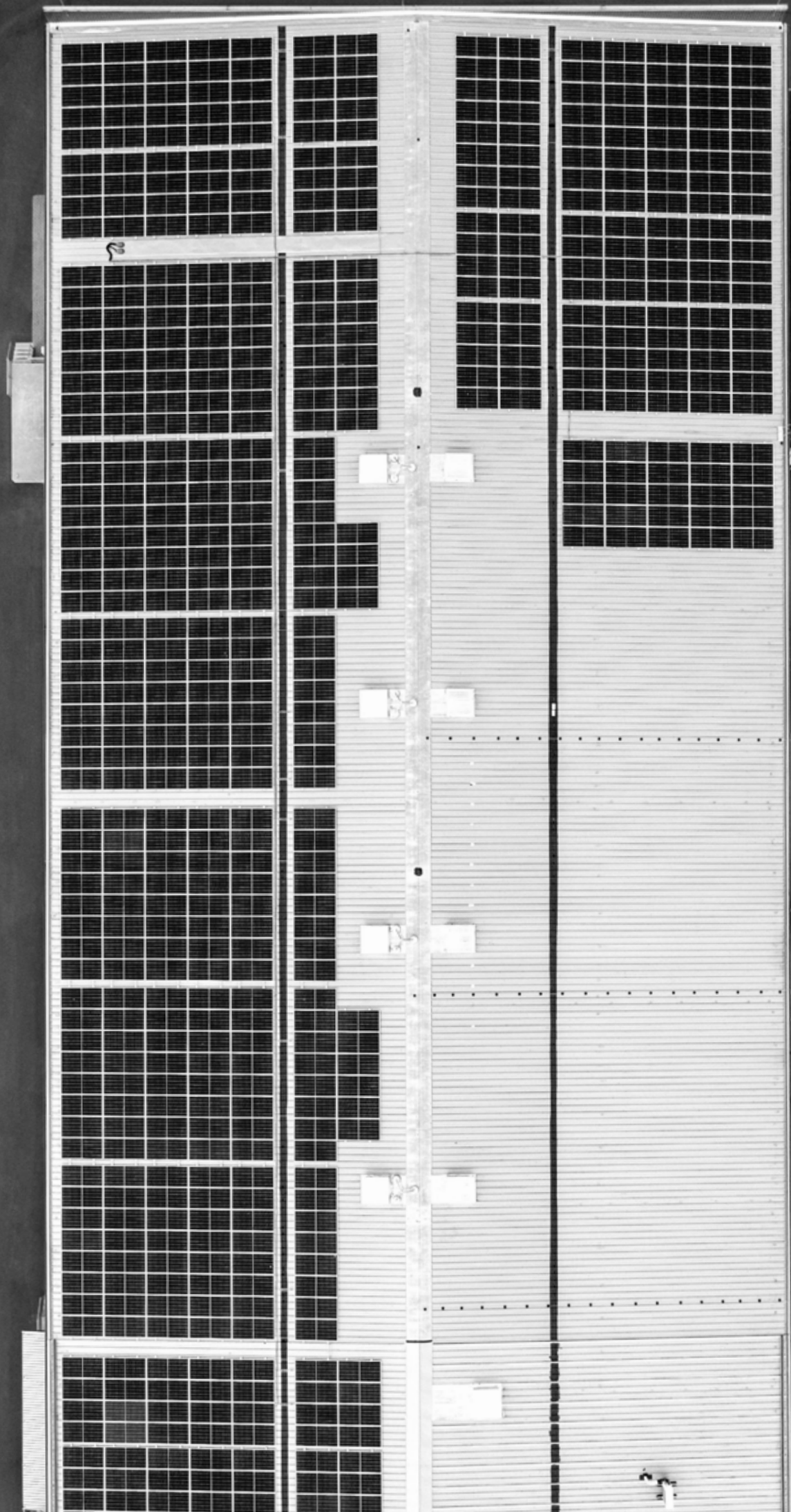


## EMERALD

Evoking the luxurious charm of its namesake gemstone, the Emerald finish blends micro-doped ribbing and fine grooves for a refined, layered effect that plays elegantly with light and color. Its dual-profiled surface delivers vibrant three-dimensionality and unmatched resilience to thermal expansion, offering both visual allure and structural performance. Emerald is the perfect choice where bold texture meets tactile sophistication.



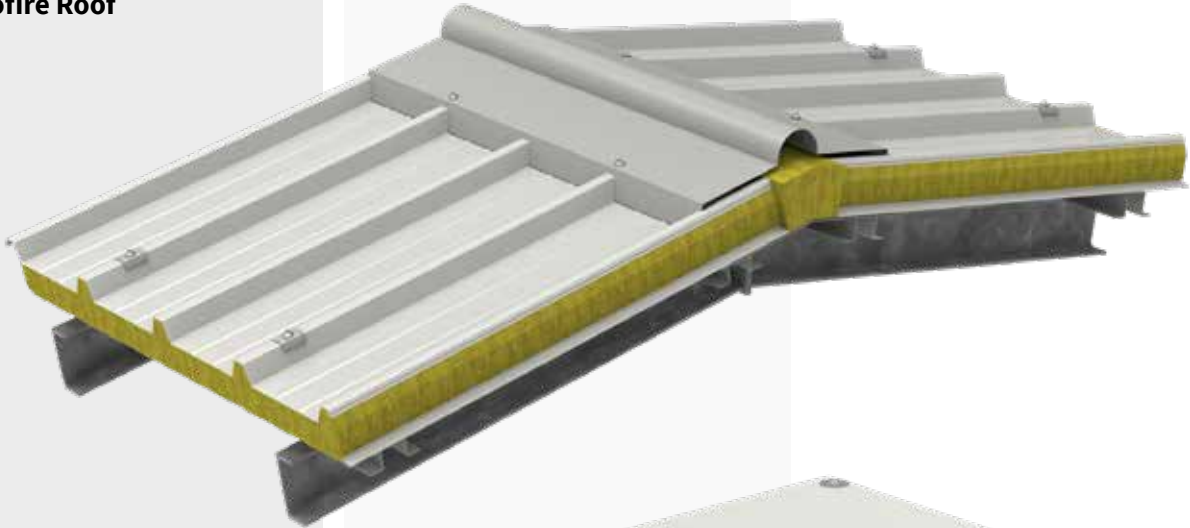




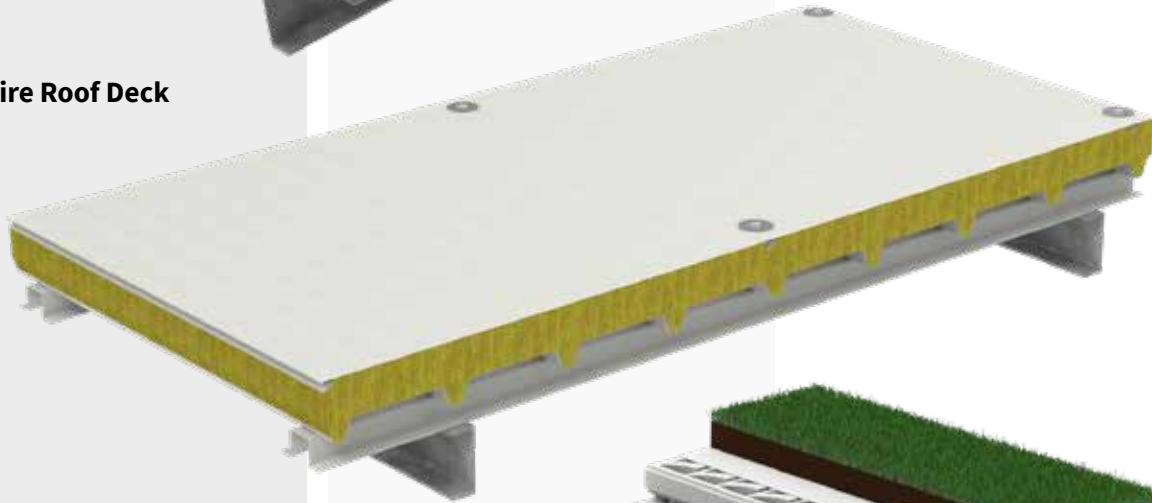
# Roof and Flat Roof

Roofs for data centers—whether sloped or flat—are designed to deliver high performance and adaptability to different design requirements. These systems offer versatile solutions, ensuring long-term protection and reliability. Thanks to the possibility of choosing among various configurations, the roofing systems integrate perfectly with both the building’s architectural design and its functional needs. Weather resistance and energy efficiency are fundamental aspects, ideal for maintaining a stable and controlled environment inside the data center.

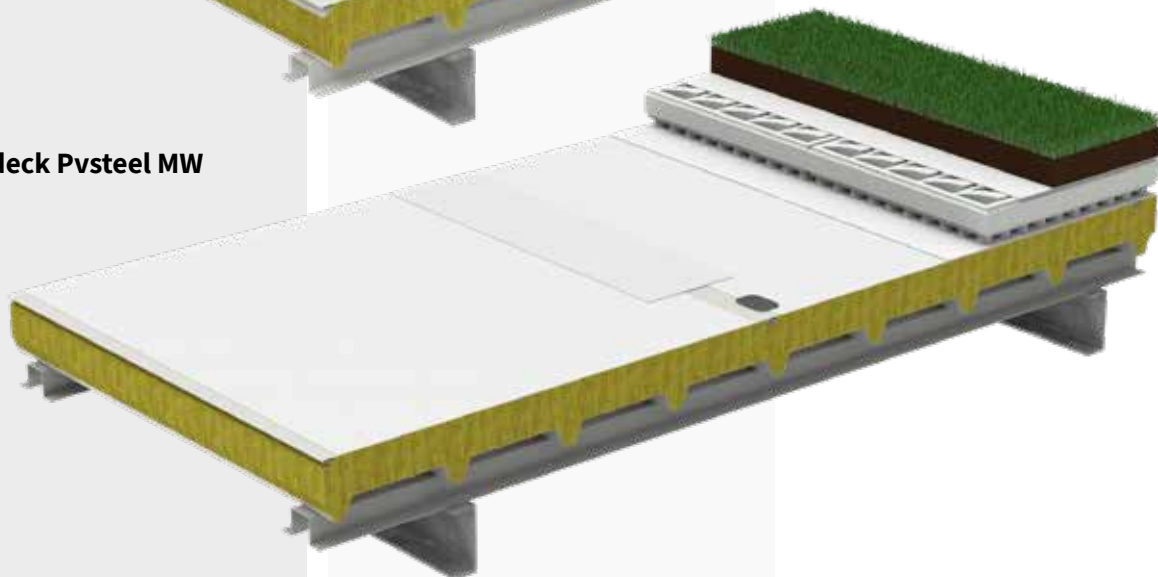
**Isofire Roof**



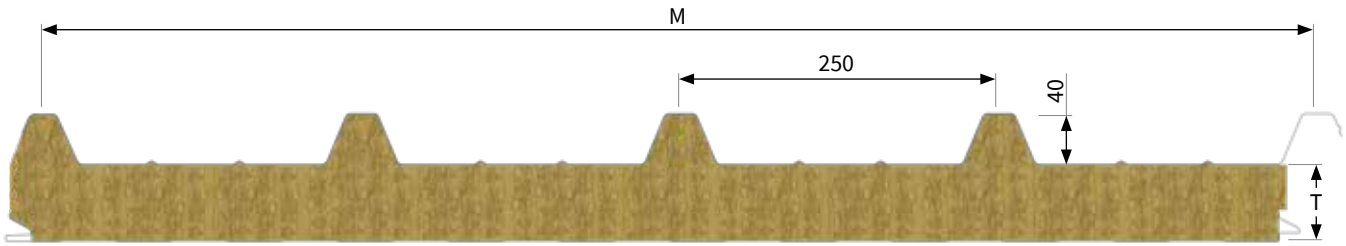
**Isofire Roof Deck**



**Isodeck Pvsteel MW**

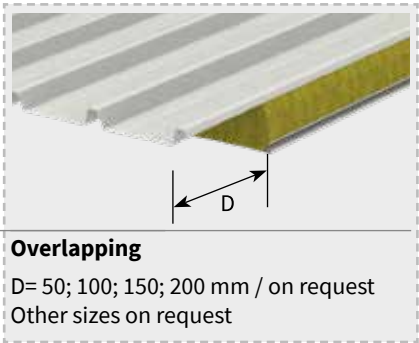


# Isofire Roof



<b>Useful width - "M"</b>	1000 mm
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<b>Available length</b>	On request
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<b>Insulation</b>	Rock fibre mineral wool Nominal density 100 kg/m <sup>3</sup>
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<b>Facing materials</b>	External metal sheet: Pre-painted sheet Internal metal sheet: Pre-painted sheet
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**Fire Performance**  
Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan

Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)	Roof
A2-s1,d0	REI 240 - 200mm REI 180 - 100mm REI 120 - 100mm REI 60 - 80mm REI 30 - 50mm	BROOF T1 T2 T3

**Acoustic Performance**  
Any acoustic performance must be specifically requested when ordering.

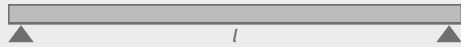
Acoustic Insulation
Rw = 34dB - 200mm Rw = 33 dB - 150mm Rw = 30 dB - 50mm

**FM Approved** On request, available with FM Approved certification



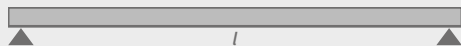
**Capacity tables**

Steel sheets  
Sheet thickness  
0,5 mm - External  
0,5 mm - Internal  
  
Support width 120mm.  
\*Support width 150 mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]							
	50	60	80	100	120	150	170*	200*
	Maximum Span "l" [cm]							
80	330	360	420	475	525	550	560	570
100	305	330	375	425	480	495	500	510
120	270	300	345	390	435	475	480	490
140	255	270	315	360	405	420	425	435
160	235	255	290	320	365	390	395	405
180	210	235	270	305	340	360	365	370
200	195	210	255	290	320	340	345	350
220	185	200	240	265	295	325	330	335
250	165	185	215	250	275	290	295	300

**Capacity tables**

Steel sheets  
Sheet thickness  
0,6 mm - External  
0,6 mm - Internal  
  
Support width 120mm.  
\*Support width 150 mm

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]							
	50	60	80	100	120	150	170*	200*
	Maximum Span "l" [cm]							
80	350	375	430	495	545	595	605	615
100	315	340	395	445	495	540	550	560
120	280	310	355	405	450	485	490	495
140	260	290	325	370	415	440	445	450
160	245	260	300	340	375	405	410	415
180	230	245	280	315	345	380	385	390
200	210	230	265	300	330	350	355	360
220	195	220	250	280	310	330	335	340
250	170	195	230	260	290	300	305	310

Calculation for static dimensioning carried out according to the contents of Annex E of EN standard 14509. Deflection limit 1/200 ℓ. The values shown in the capacity tables do not take into account the thermal load.

**Technical specifications**  
Available thickness 'T'

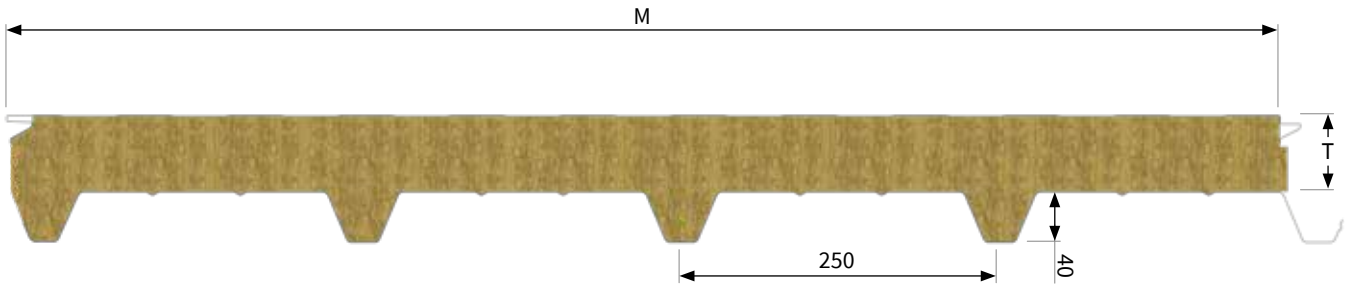
Thermal insulation 'U' according to EN 14509 - A.10. The weight considers panels with steel sheets, nominal thickness indicated in the table.

T [mm]	Thermal Insulation - U		[Kg/m <sup>2</sup> ]	
	[W/m <sup>2</sup> K]	[kcal/m <sup>2</sup> h °C]	0,5 mm	0,6 mm
50	0,78	0,67	14,4	16,2
60	0,66	0,57	15,4	17,2
80	0,50	0,43	17,4	19,2
100	0,40	0,34	19,4	21,2
120	0,34	0,29	21,4	23,2
150	0,27	0,23	24,4	26,2
170	0,24	0,21	26,4	28,2
200	0,20	0,17	29,4	31,2

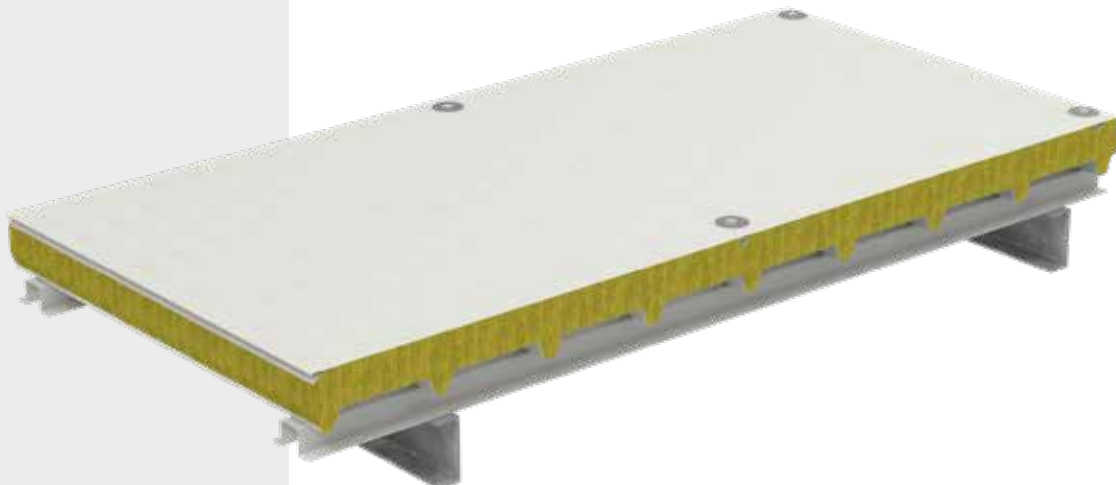
**Instructions for use and dimensional tolerances**

consult the Technical Manual, General Sales Conditions and Annexes available on the website.

# Isofire Roof Deck



<b>Product Description</b>	<ul style="list-style-type: none"> <li>• Sandwich panel for flat and gently sloping roofs</li> <li>• 5-rib corrugated internal profile, H 40 mm</li> <li>• Pre-painted sheet metal interior facing</li> <li>• Rock fibre mineral wool insulation</li> </ul>
<b>Useful width - "M"</b>	1000 mm
<b>Available length</b>	On request
<b>Insulation</b>	Rock fibre mineral wool Nominal density 100 kg/m <sup>3</sup>
<b>Facing materials</b>	External facing: Pre-painted sheet Internal facing: Pre-painted sheet



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**Capacity tables**

Steel sheets  
Sheet thickness  
0,8mm - External  
0,6 mm - Internal

Support width 120mm.

Calculation for static dimensioning carried out according to the contents of Annex E of EN standard 14509. Deflection limit 1/200 ℓ. The values shown in the capacity tables do not take into account the thermal load.

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]							
	50	60	80	100	120	150	170	200
	Maximum Span "ℓ" [cm]							
80	335	360	415	480	525	575	585	595
100	305	325	380	430	480	520	530	540
120	270	300	340	390	435	470	475	480
140	250	280	315	355	400	425	430	435
160	235	250	290	325	360	390	395	400
180	220	235	270	305	330	365	370	375
200	200	220	255	290	320	335	340	345
220	185	210	240	270	300	320	320	325
250	160	185	220	250	280	290	295	300

**Technical specifications**  
Available thickness 'T'

Thermal insulation 'U' according to EN 14509 - A.10. The weight considers panels with steel sheets, nominal thickness indicated in the table.

T [mm]	Thermal Insulation - U		[Kg/m <sup>2</sup> ]	
	[W/m <sup>2</sup> K]	[kcal/m <sup>2</sup> h °C]	0,6 mm	0,8mm
50	0,78	0,67	18,4	20,4
60	0,66	0,57	19,4	21,4
80	0,50	0,43	21,4	23,4
100	0,41	0,35	23,4	25,4
120	0,34	0,29	25,4	27,4
150	0,28	0,24	28,4	30,4
170	0,24	0,21	30,4	32,4
200	0,20	0,17	33,4	35,4

**Fire Performance**

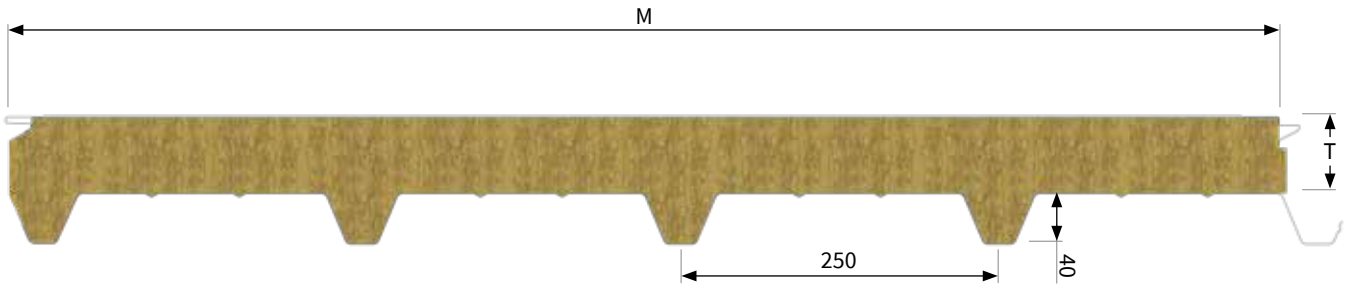
Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan

Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)	Roof
Up to A2,s1 - d0	REI 120* - 120mm PIR  *with assembly instructions	Available on some configurations*  *contact the Technical Office

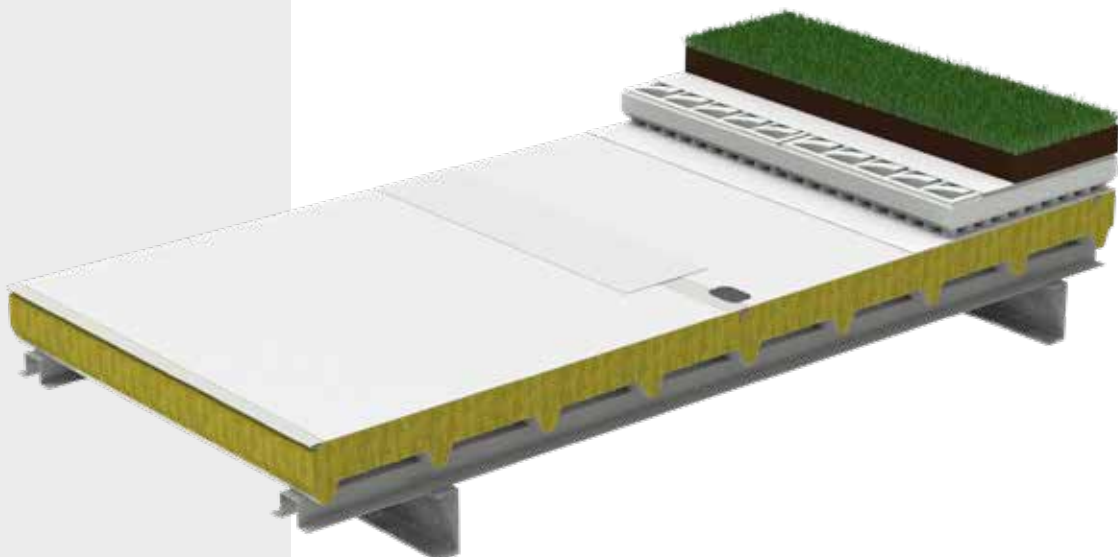
**Instructions for use and dimensional tolerances**

consult the Technical Manual, General Sales Conditions and Annexes available on the website.

# Isodeck Pvsteel MW



<b>Product Description</b>	<ul style="list-style-type: none"> <li>• Sandwich panel for flat and gently sloping roofs</li> <li>• 5-rib corrugated internal profile, H 40 mm</li> <li>• Pre-painted sheet metal interior facing</li> <li>• External PVC or Polyolefin (TPO) synthetic membrane facing</li> <li>• Rock fibre mineral wool insulation</li> </ul>
<b>Useful width - "M"</b>	1000 mm
<b>Available length</b>	On request
<b>Insulation</b>	<p>Rock fibre mineral wool</p> <p>Nominal density 100 kg/m<sup>3</sup></p>
<b>Facing materials</b>	<p>External facing: Pre-painted sheet with synthetic membrane</p> <p>Internal facing: Pre-painted sheet</p>



BREEAM®




CE

### Capacity tables

Steel sheets  
 Sheet thickness  
 0,8mm - External  
 0,6 mm - Internal

Support width 120mm.

Calculation for static dimensioning carried out according to the contents of Annex E of EN standard 14509. Deflection limit 1/200  $l$ . The values shown in the capacity tables do not take into account the thermal load.

UNIFORMLY DISTRIBUTED LOAD [kg/m <sup>2</sup> ]	 NOMINAL SHEET THICKNESS [mm]							
	50	60	80	100	120	150	170	200
	Maximum Span "l" [cm]							
80	335	360	415	480	525	575	585	595
100	305	325	380	430	480	520	530	540
120	270	300	340	390	435	470	475	480
140	250	280	315	355	400	425	430	435
160	235	250	290	325	360	390	395	400
180	220	235	270	305	330	365	370	375
200	200	220	255	290	320	335	340	345
220	185	210	240	270	300	320	320	325
250	160	185	220	250	280	290	295	300

### Technical specifications Available thickness 'T'

Thermal insulation 'U' according to EN 14509 - A.10.  
 The weight considers panels with steel sheets, nominal thickness indicated in the table.

T [mm]	Thermal Insulation - U		[Kg/m <sup>2</sup> ]	
	[W/m <sup>2</sup> K]	[kcal/m <sup>2</sup> h °C]	0,6 mm	0,8mm
50	0,78	0,67	18,4	20,4
60	0,66	0,57	19,4	21,4
80	0,50	0,43	21,4	23,4
100	0,41	0,35	23,4	25,4
120	0,34	0,29	25,4	27,4
150	0,28	0,24	28,4	30,4
170	0,24	0,21	30,4	32,4
200	0,20	0,17	33,4	35,4

### Fire Performance

Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan

Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)	Broof
Up to B <sub>s</sub> 1-d0	REI 120* - 120mm PIR  *with assembly instructions	Available on some configurations*  *contact the Technical Office

### Instructions for use and dimensional tolerances

consult the Technical Manual, General Sales Conditions and Annexes available on the website.

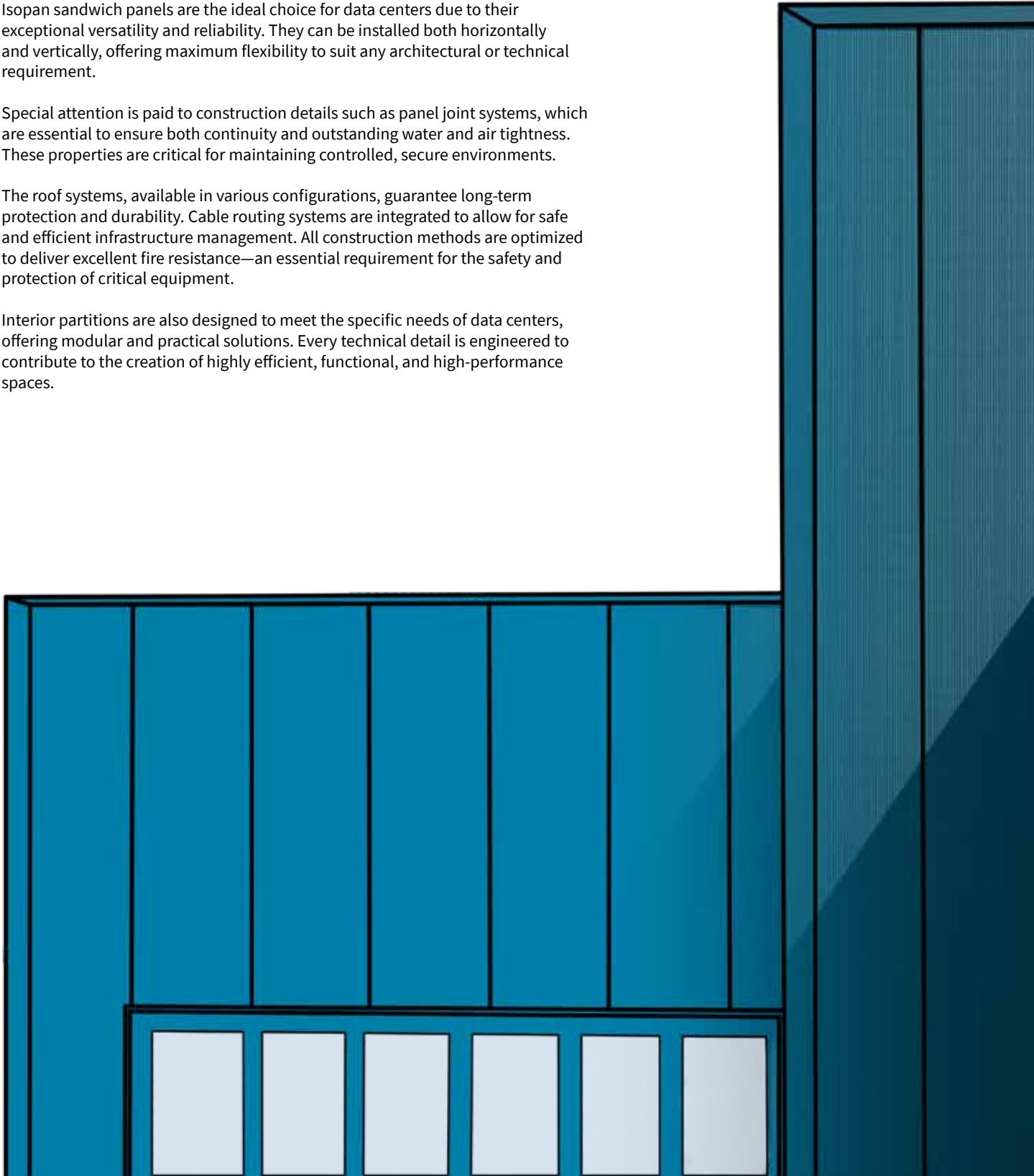
# Technical details

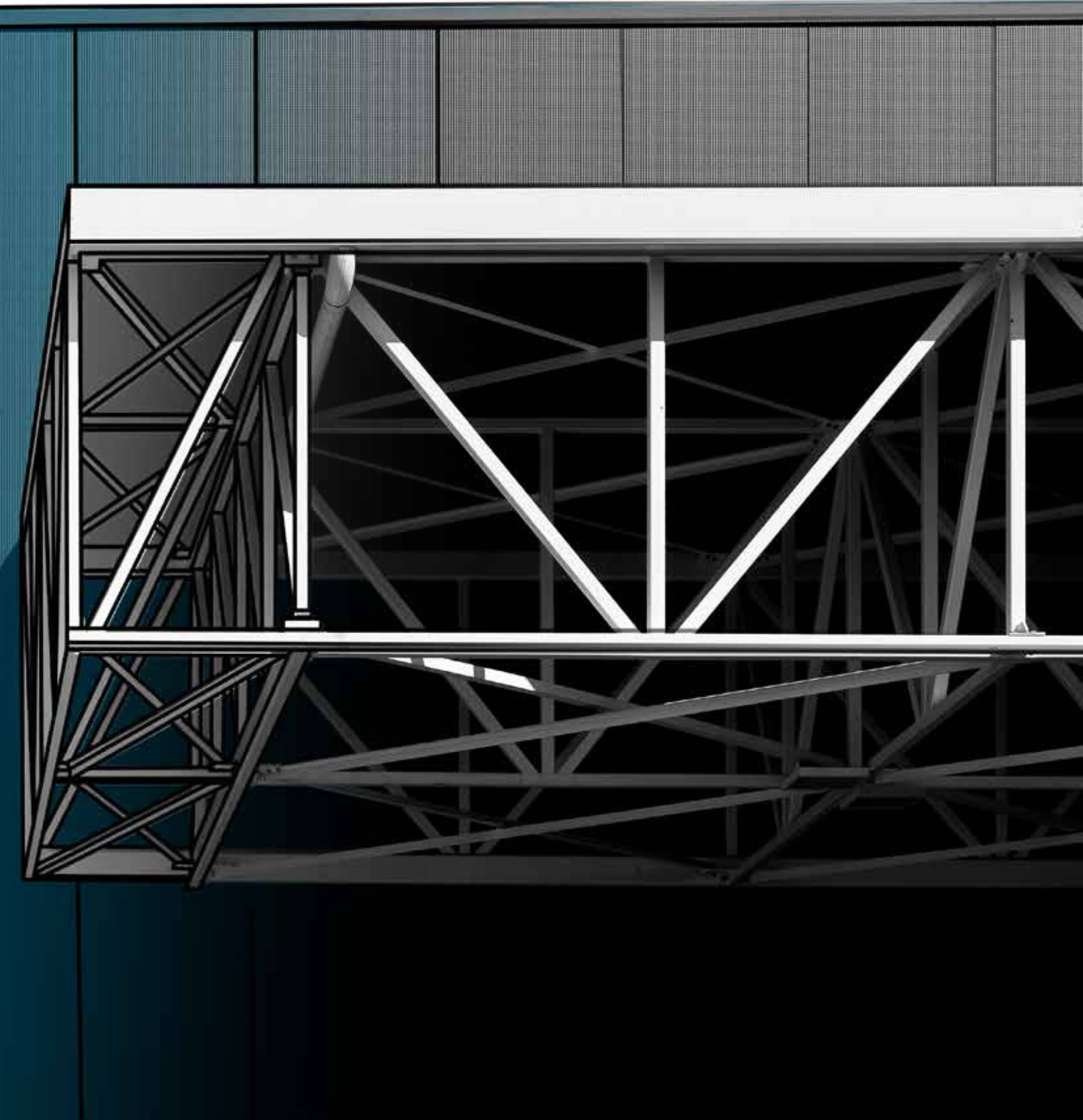
Isopan sandwich panels are the ideal choice for data centers due to their exceptional versatility and reliability. They can be installed both horizontally and vertically, offering maximum flexibility to suit any architectural or technical requirement.

Special attention is paid to construction details such as panel joint systems, which are essential to ensure both continuity and outstanding water and air tightness. These properties are critical for maintaining controlled, secure environments.

The roof systems, available in various configurations, guarantee long-term protection and durability. Cable routing systems are integrated to allow for safe and efficient infrastructure management. All construction methods are optimized to deliver excellent fire resistance—an essential requirement for the safety and protection of critical equipment.

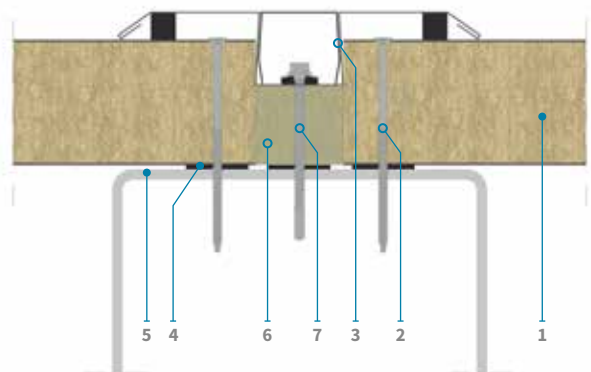
Interior partitions are also designed to meet the specific needs of data centers, offering modular and practical solutions. Every technical detail is engineered to contribute to the creation of highly efficient, functional, and high-performance spaces.





# Panel-to-Panel Joint

## HORIZONTAL INSTALLATION

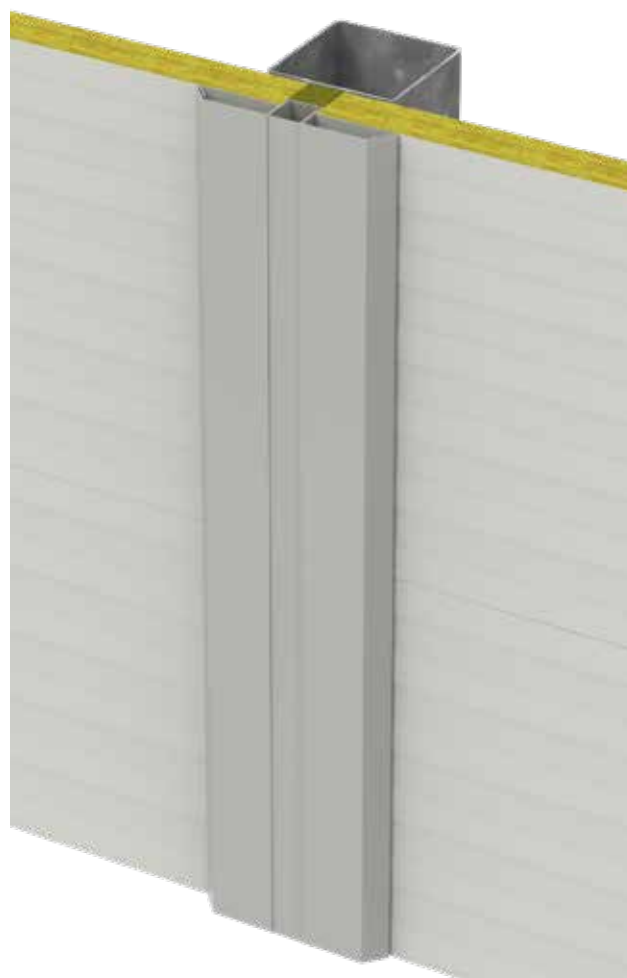


### LEGEND

1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. Prepainted metal flashing joint
4. Gasket
5. Load bearing structure
6. On-site insulation
7. Self drilling screw

Pre-painted and press formed metallic sheet element used as a closing and protective accessory for the joining edges on walls built with ISOPAN sandwich panels.

Integrable with accessories of the LED Lighting line.



### ISO-L-52

**Use:** Joint cover element for connection between wall panels, configuration with horizontal fastening.

**Material:** Pre-painted press formed Steel Sheet

**Max. length:** 4500 mm

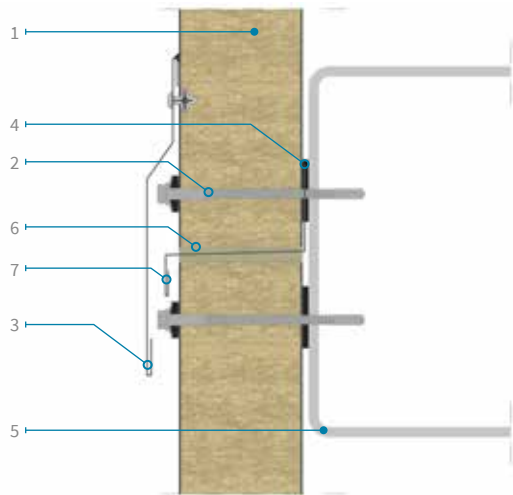
**Available integrations:** ISO-L-52 LED

**Available colours:** RAL colours available on request, Please check with Isopan

ATTENTION: the proposed solution does not constitute the project, and must be firstly assessed and evaluated by the designer and construction supervision. The designer is responsible for assessing the need to insert additional gasket and/or closing elements, even when not indicated in the drawing details. The property rights of this document belong to ISOPAN S.p.a.. The contents can't be reproduced without prior written permission by the author. To choose the type of fastening, please refer to the screw type choice sheet; To choose the screw length, please refer to the data sheet for the correct screw length).



## VERTICAL INSTALLATION



### LEGEND

1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. External pre-painted metal flashing joint
4. Gasket
5. Load bearing structure
6. On-site insulation
7. Pre-painted metal flashing joint - dripping

Pre-painted and press formed metallic sheet element used as a closing and protective accessory for the joining edges on walls built with ISOPAN sandwich panels.

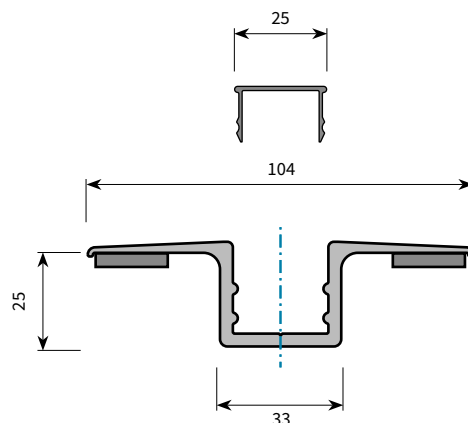
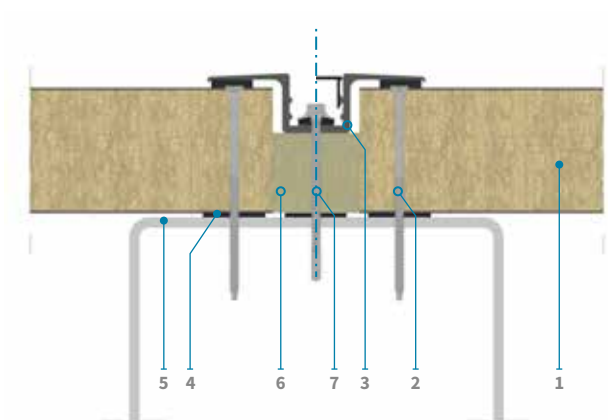
ISO-V-52	
<b>Use:</b>	Joint cover element for connection between wall panels, configuration with horizontal fastening.
<b>Material:</b>	Pre-painted press formed Steel Sheet
<b>Max. length:</b>	4500 mm
<b>Available colours:</b>	RAL colours available on request, Please check with Isopan



ATTENTION: the proposed solution does not constitute the project, and must be firstly assessed and evaluated by the designer and construction supervision. The designer is responsible for assessing the need to insert additional gasket and/or closing elements, even when not indicated in the drawing details. The property rights of this document belong to ISOPAN S.p.a.. The contents can't be reproduced without prior written permission by the author. To choose the type of fastening, please refer to the screw type choice sheet; To choose the screw length, please refer to the data sheet for the correct screw length).



# ADD Joint profiles

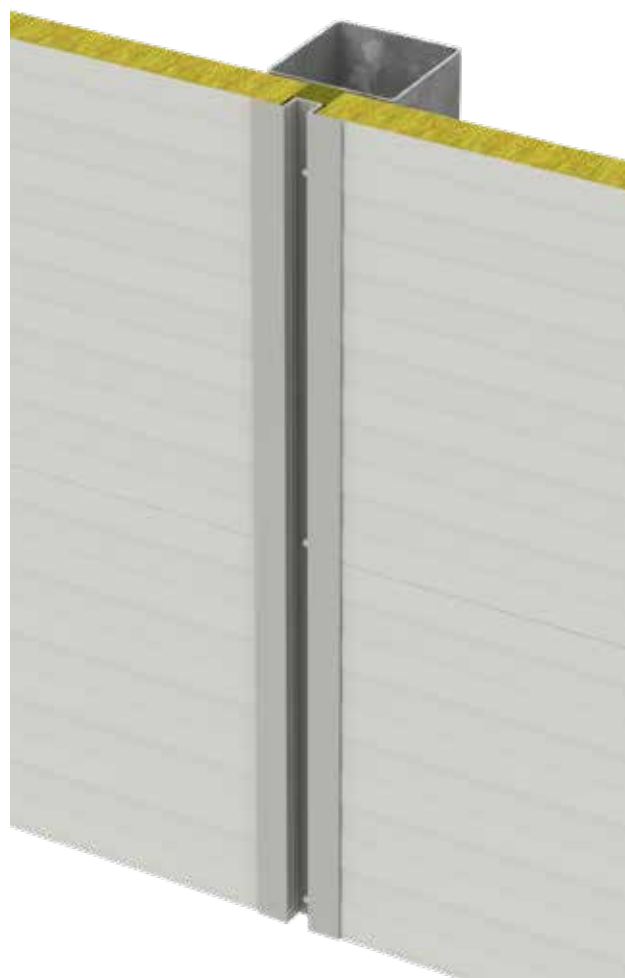


## LEGEND

1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. Extruded aluminium joint cover ADD-Joint + Clip
4. Gasket
5. Load bearing structure
6. On-site insulation
7. Self drilling screw for ADD-Joint

Extruded Aluminium element used as a closing and protective accessory for the joining edges on walls built with ISOPAN sandwich panels.

Integrable with accessories of the LED Lighting line.



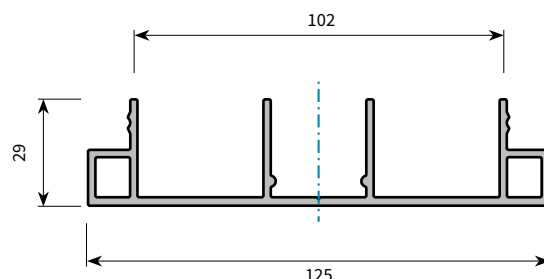
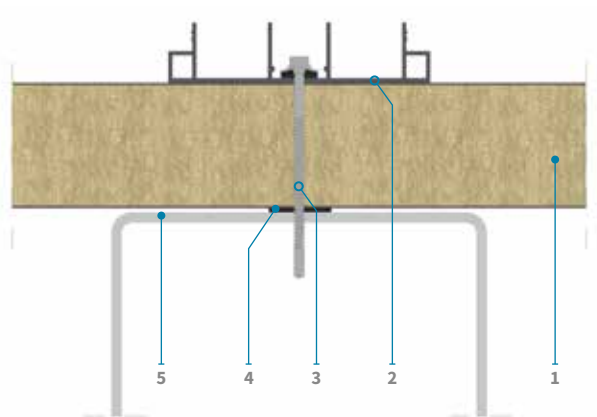
## ADD Joint extruded profile

<b>Use:</b>	Joint cover element for connection between wall panels, configuration with horizontal fastening.
<b>Material:</b>	Extruded aluminium
<b>Max. length:</b>	4500 mm
<b>Available integrations:</b>	CLIP RP FLAT
<b>Available colours:</b>	Natural anodised RAL colours available on request, Please check with Isopan

ATTENTION: the proposed solution does not constitute the project, and must be firstly assessed and evaluated by the designer and construction supervision. The designer is responsible for assessing the need to insert additional gasket and/or closing elements, even when not indicated in the drawing details. The property rights of this document belong to ISOPAN S.p.a.. The contents can't be reproduced without prior written permission by the author. To choose the type of fastening, please refer to the screw type choice sheet; To choose the screw length, please refer to the data sheet for the correct screw length).



# ADD Fast profiles



## LEGEND

1. Isopan Wall sandwich panel
2. Extruded aluminium joint cover ADD-Fast
3. Self drilling screw for ADD-Fast
4. Gasket
5. Load bearing structure

Extruded Aluminium element used as an aesthetic/architectural element, or for positioning integrative fastenings. Integrable with accessories of the LED Lighting line.

### ADD Fast extruded profile

**Use:** Architectural element for wall panels, configuration with horizontal fastening.

**Material:** Extruded aluminium

**Max. length:** 4500 mm

CLIP

**Available integrations:**

RP

FLAT

Natural anodised

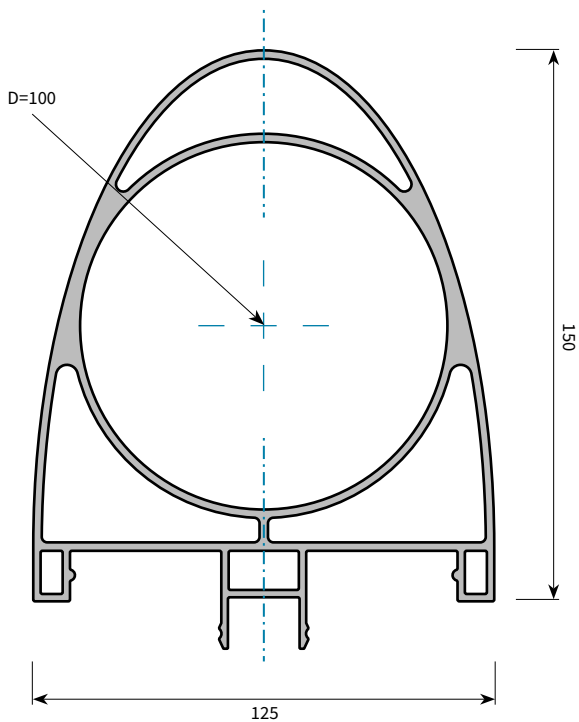
**Available colours:** RAL colours available on request, Please check with Isopan



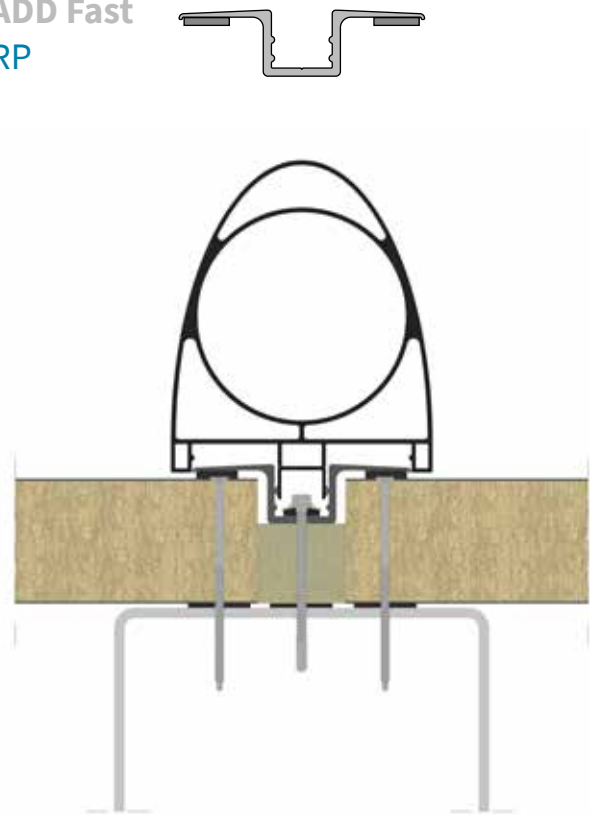
ATTENTION: the proposed solution does not constitute the project, and must be firstly assessed and evaluated by the designer and construction supervision. The designer is responsible for assessing the need to insert additional gasket and/or closing elements, even when not indicated in the drawing details. The property rights of this document belong to ISOPAN S.p.a.. The contents can't be reproduced without prior written permission by the author. To choose the type of fastening, please refer to the screw type choice sheet; To choose the screw length, please refer to the data sheet for the correct screw length).



# RP profiles

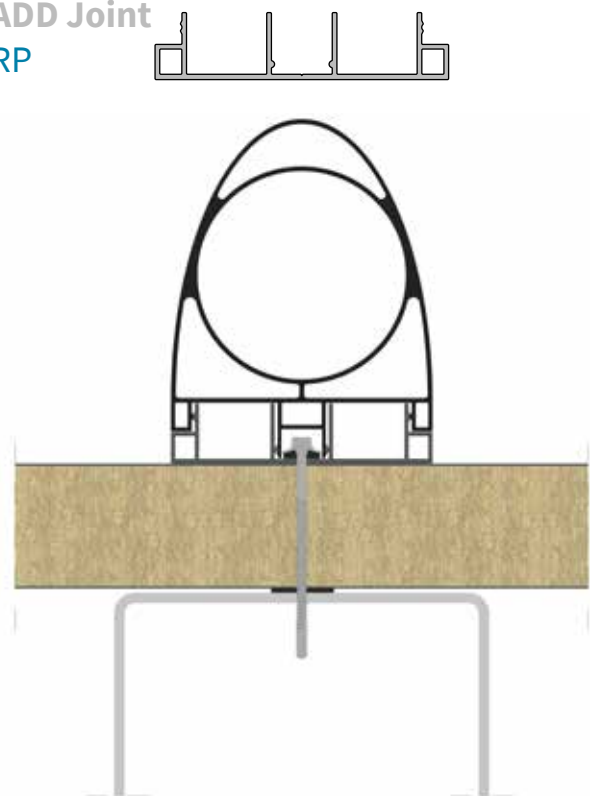


ADD Fast  
RP



Extruded Aluminium element, that can be used as an aesthetic or plant engineering containment profile.  
Compatible with ADD Joint and ADD Fast profiles.

ADD Joint  
RP



## RP extruded profile

**Use:** Architectural extruded profile, that can be used as a compartment to pass systems and pipes through

**Material:** Extruded aluminium

**Max. length:** 4500 mm

**Compatible with:** ADD Joint

ADD Fast

Natural anodised

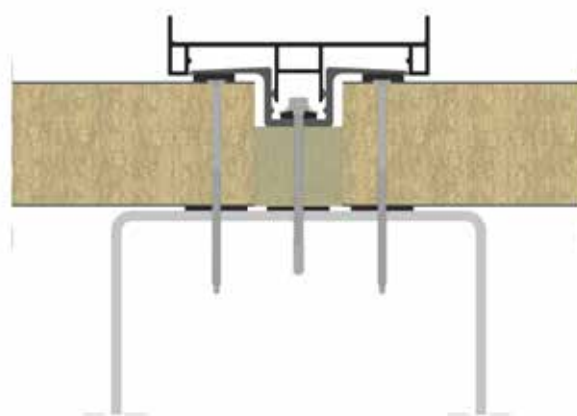
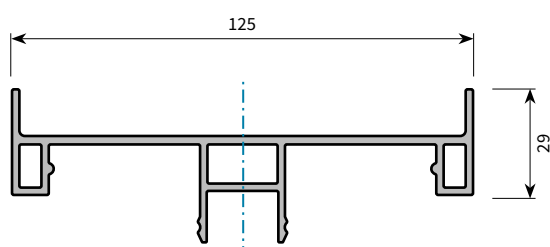
**Available colours:** RAL colours available on request, Please check with Isopan

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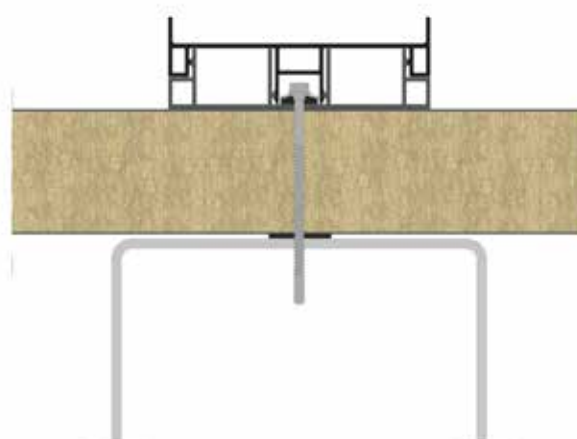
# Flat profiles

## ADD Fast FLAT



Extruded Aluminium element, that can be used as an aesthetic profile.  
Compatible with ADD Joint and ADD Fast profiles.

## ADD Joint FLAT



### FLAT extruded profile

<b>Use:</b>	Architectural extruded profile, that can be used as an aesthetic element
<b>Material:</b>	Extruded aluminium
<b>Max. length:</b>	4500 mm
<b>Compatible with:</b>	ADD Joint ADD Fast
	Natural anodised
<b>Available colours:</b>	RAL colours available on request, Please check with Isopan

ATTENTION: the proposed solution does not constitute the project, and must be firstly assessed and evaluated by the designer and construction supervision. The designer is responsible for assessing the need to insert additional gasket and/or closing elements, even when not indicated in the drawing details. The property rights of this document belong to ISOPAN S.p.a.. The contents can't be reproduced without prior written permission by the author. To choose the type of fastening, please refer to the screw type choice sheet; To choose the screw length, please refer to the data sheet for the correct screw length).



You can download the .dwg and .pdf files collection at [isopan.com](http://isopan.com).

# Fire doors

In data center design, fire risk prevention is a strategic aspect, essential to ensure the operational continuity of digital infrastructures. The building envelope must be conceived as an integrated system in which every element — panels, joints, accessories, and openings — contributes to the creation of fire-resistant compartments.

In this context, certified fire doors represent an indispensable component to guarantee the continuity of passive protection.

Isopan has carried out fire resistance tests on hinged metal doors installed on sandwich panel walls with rock wool insulation, recreating realistic application conditions for critical environments such as data centers.

The tests, performed in an accredited laboratory, followed the main European standards:

- **EN 1634-1** – Fire resistance tests for doors and shutters
- **EN 13501-2** – Fire resistance classification of construction elements

The results confirm excellent performance:

- **Class EI1 30:** thermal insulation and smoke tightness ensured for at least 30 minutes
- **Class EI2 120:** integrity and insulation maintained for up to 120 minutes in total
- **Category B**, according to EN 1634-1 classification, suitable for high-criticality environments

Integrating certified fire doors into Isopan wall systems offers numerous advantages that go well beyond mere regulatory compliance:

## **Continuous and homogeneous REI compartments**

The interaction between panel and door is designed and tested to guarantee the continuity of compartmentalization features, even at openings, avoiding weak points in the building envelope.

## **Simplified compliance**

Having a system tested as a whole makes the work of designers and fire safety managers easier, streamlining approval processes with the relevant authorities and ensuring compliance with European regulatory requirements (EN 13501-2 and EN 1634-1).

## **Protection of critical areas**

The doors are ideal for installation near high-risk technical rooms, such as server rooms, UPS areas, or electrical panels, where it is crucial to limit the spread of heat and smoke in order to safeguard equipment functionality.

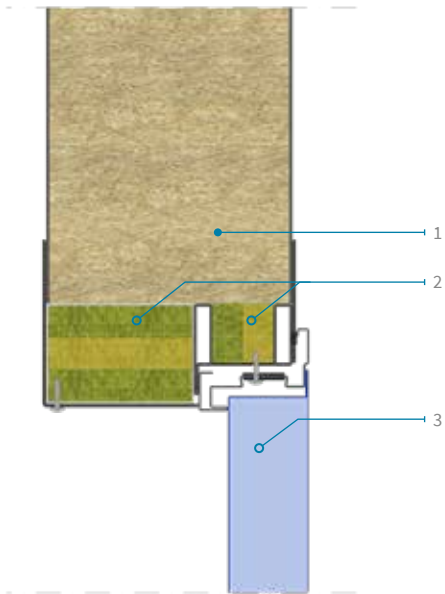
## **Resilience and operational continuity**

In the event of fire, effective compartmentalization allows damage to be contained within a restricted area, preventing service interruptions across the entire facility. This translates into lower restoration costs and greater overall reliability of the data center.



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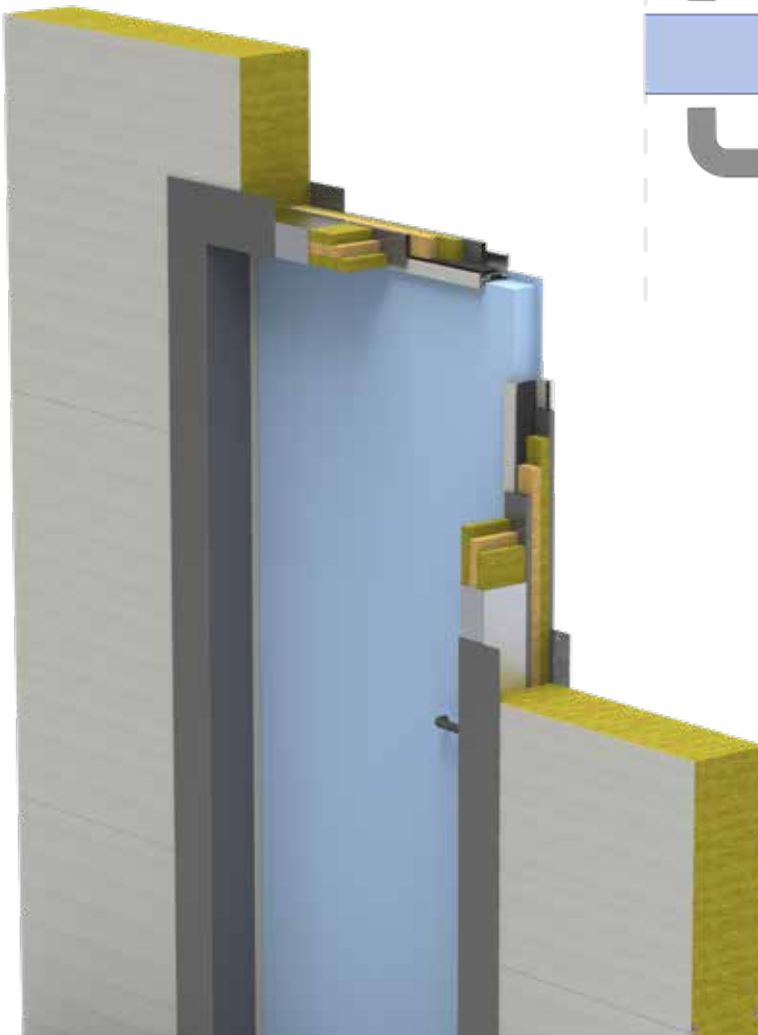
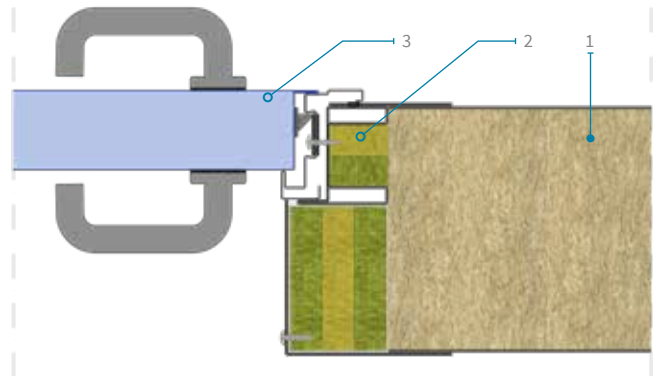




A tested and certified system.  
The tests were carried out on walls built with 200 mm thick Isopan mineral wool panels, demonstrating the technical and regulatory compatibility between the panel and the door, and certifying the building envelope system even at points of discontinuity.

**LEGEND**

1. ISOPAN Isofire Wall Panel 200 mm
2. Promat Promatect H panel (dens. 870 Kg/m<sup>3</sup>) 20 mm thick
3. Fire door



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# Penetrations

In modern building design, fire compartmentation is a cornerstone of passive fire protection. The aim is clear: to contain a potential fire within a defined area for a designated period, preventing flame and smoke from spreading to adjacent compartments. However, this continuity is often disrupted by service installations—electrical cables, pipes, HVAC ducts—that pass through wall and ceiling systems.

## Standards and Testing Protocols

To provide reliable performance in real-world applications, Isopan has tested its mineral wool sandwich panel system Isofire Wall according to:

- EN 13501-2 – Fire classification of construction products and building elements;
- EN 1366-3 – Fire resistance tests for service installations – Part 3: Penetration seals.

EN 1366-3 specifies stringent test methods for service penetrations (openings in separating elements) and classifies firestop systems used to restore compartmentation. Tests are conducted on both rigid walls (e.g. masonry, concrete) and flexible walls (e.g. plasterboard) and cover various installation scenarios, including combustible/non-combustible materials, insulated services, and combinations of multiple penetrants.

## Structural Integrity Assessment:

Beyond fire resistance, Isopan also assesses the mechanical performance of panels around penetrations. These evaluations include:

Assessment of residual structural integrity;  
Analysis of shear and bending effects due to panel cuts;  
Measurement of localized stress concentrations around openings.

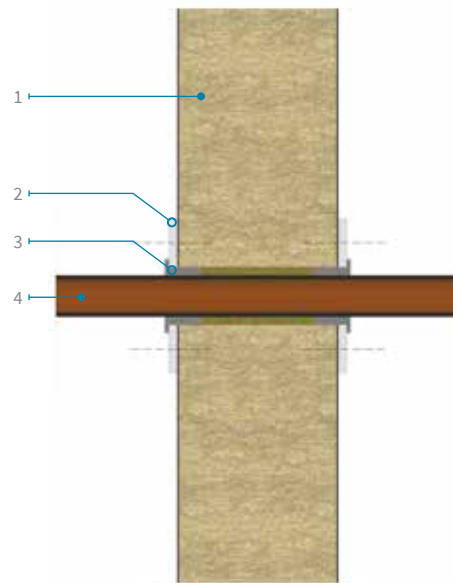
In cases where load-bearing performance is compromised, secondary frameworks or substructures may be recommended to transfer loads to the main building structure and maintain system integrity.

## A Complete and Certified System for Designers and Engineers

This robust testing approach ensures that Isofire Wall is not just a fire-rated panel, but a comprehensive system ready to meet the demands of contemporary design and installation challenges.

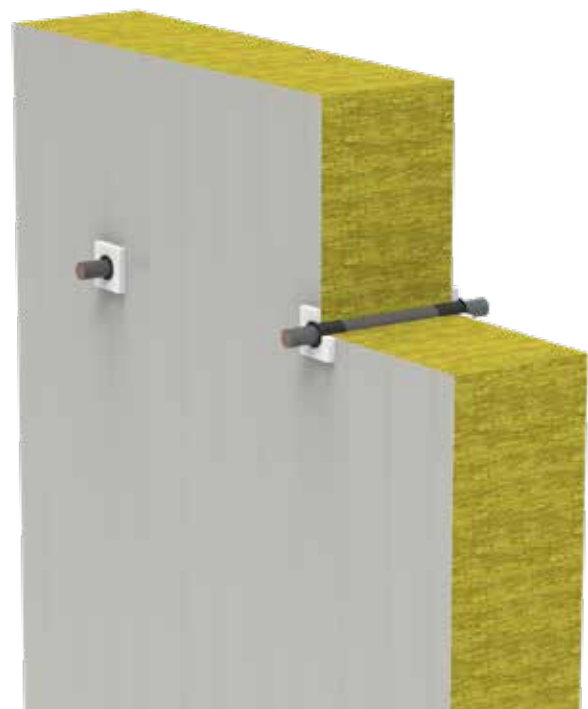
Key benefits include:

- Code compliance: Tested and classified under the strictest European fire safety standards;
- Project-ready documentation: Full technical details and installation guidelines available;
- System compatibility: Solutions validated for use with real-world penetrations and services;
- Flexibility and adaptability: Suitable for complex environments such as technical rooms, industrial plants, tunnels, and data centers.



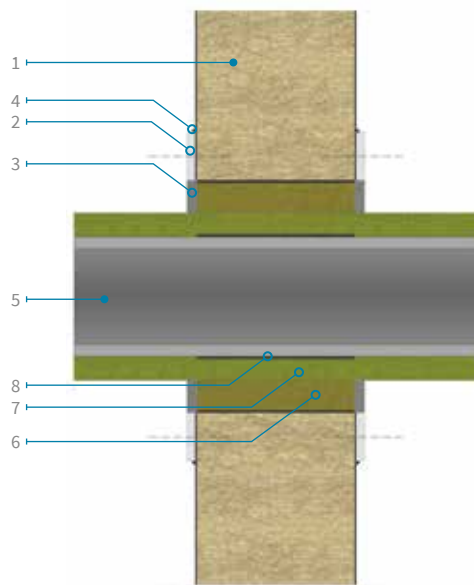
## LEGEND

1. ISOPAN Isofire Wall Panel
2. IPROMATECT 10mm Thick
3. PROMASTOP SEAL
4. Pipe or cable



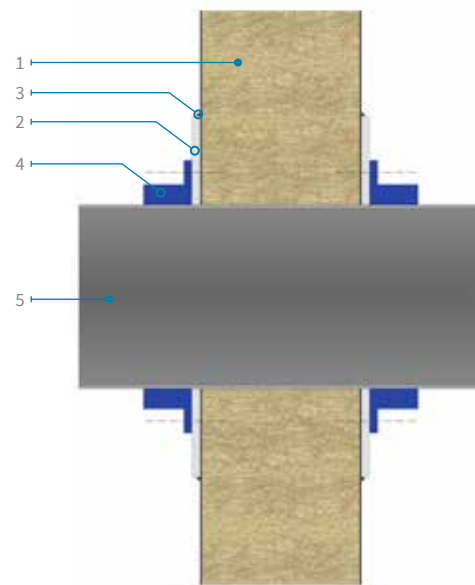
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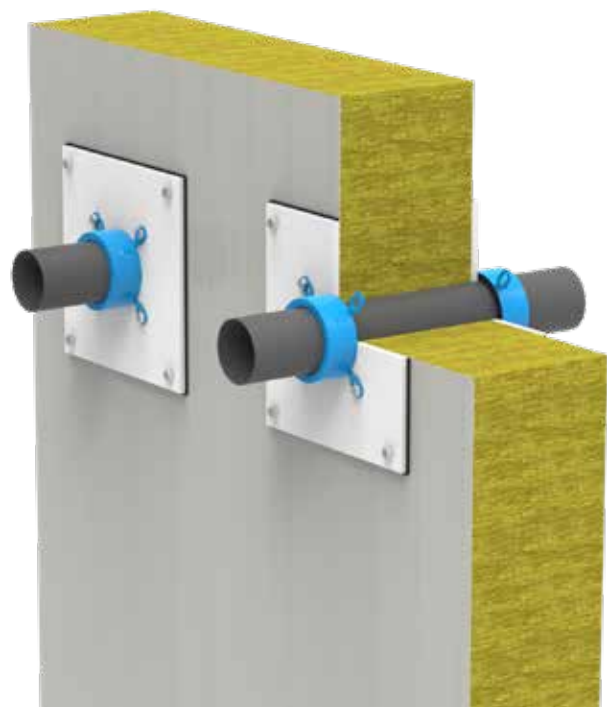
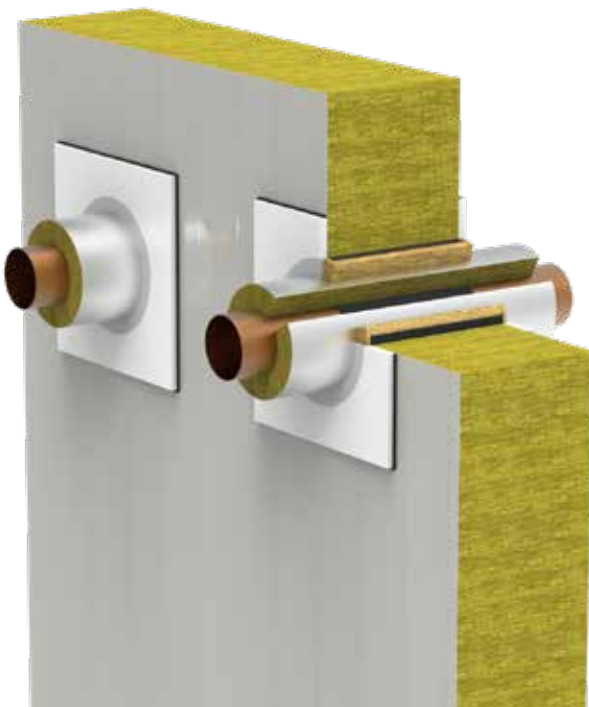
**LEGEND**

1. ISOPAN Isofire Wall Panel
2. IPROMATECT 10mm Thick
3. PROMASEAL A - 5mm thick
4. PROMASEAL A - 5mm thick
5. Pipe
6. Backing ISOVER PAR 90mm thick
7. Pipe insulation ISOVER PAR 30mm thick
8. PROMASEAL INTUMESCENT GASKET



**LEGEND**

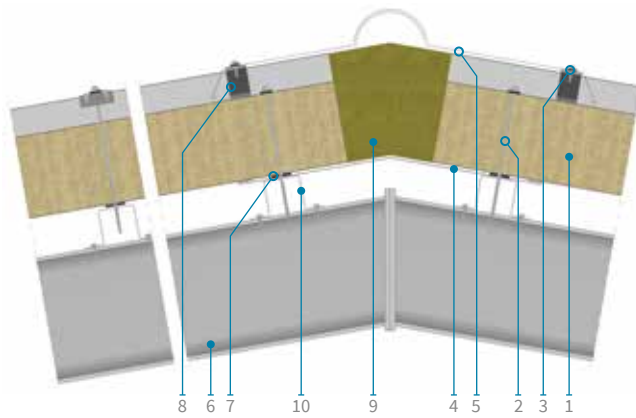
1. ISOPAN Isofire Wall Panel
2. IPROMATECT 10mm Thick
3. PROMASTOP SEAL
4. PROMASTOP FC3
5. Pipe



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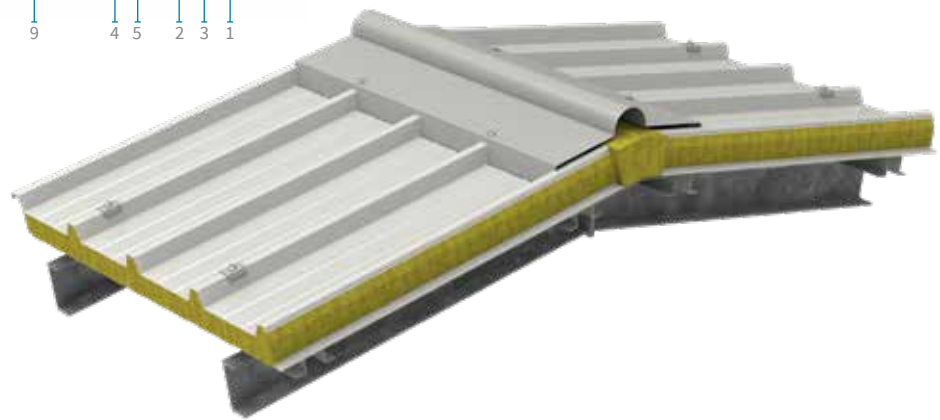
# Technical Details and Assembly Drawings

## RIDGE CONNECTION WITH DOUBLE FLASHING

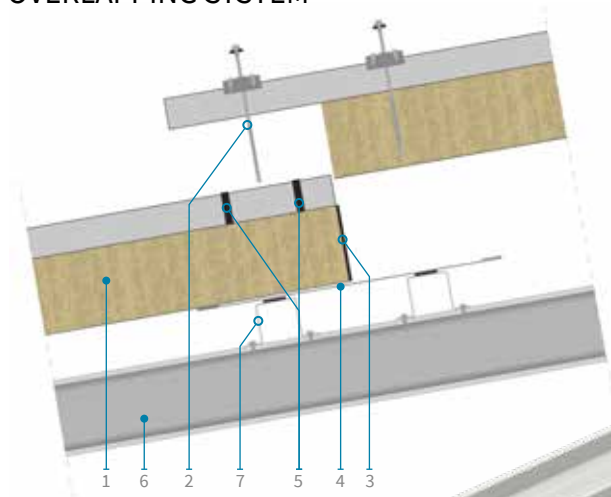


### LEGEND

1. Isopan roof sandwich panel
2. Isopan fixing sistem with metal cap and screw
3. Screw for sheet fixing
4. Internal prepainted steel flashing
5. External prepainted steel flashing - ridge sheet
6. Primary structure
7. Gasket
8. Giuntoplast Gasket
9. On-site insulating material
10. 10. Secodary structure

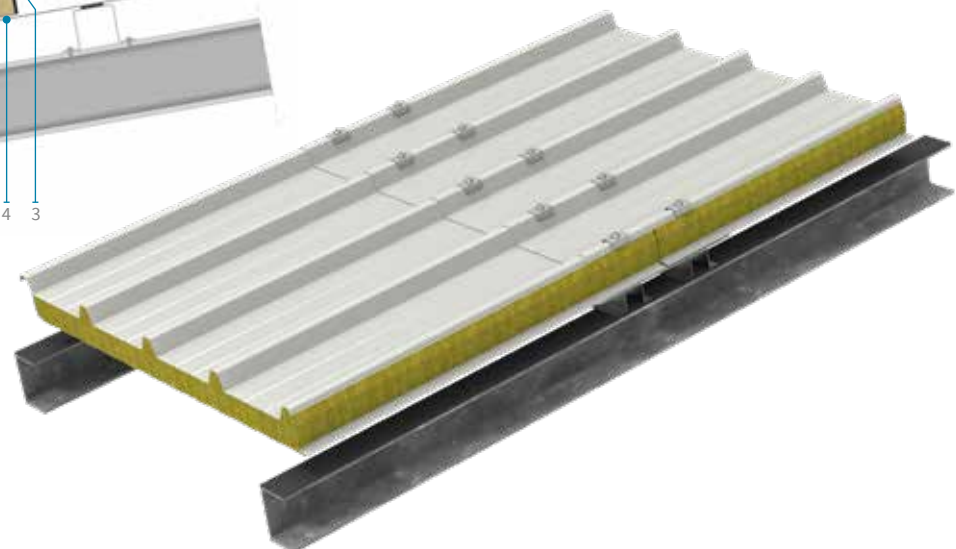


## OVERLAPPING SYSTEM



### LEGEND

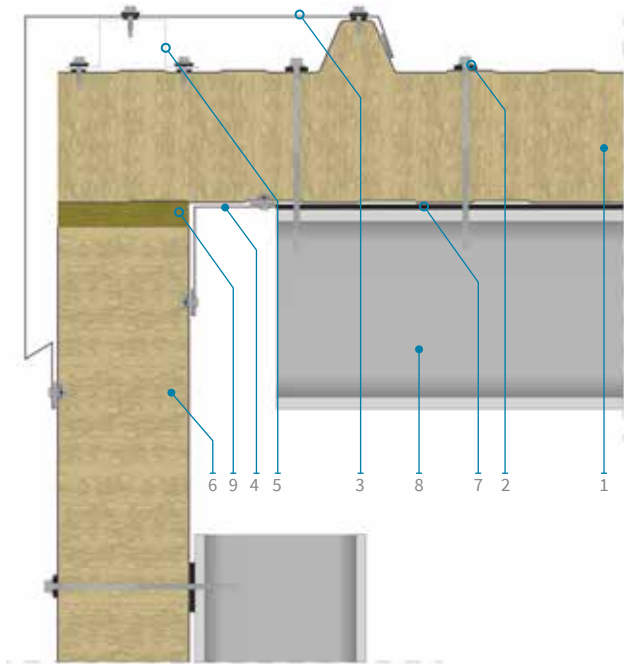
1. Isopan roof sandwich panel
2. Isopan fixing sistem with metal cap and screw
3. On-site gasket
4. Internal prepainted steel flashing
5. On-site sealant or adhesive gasket
6. Primary structure
7. Secodary structure



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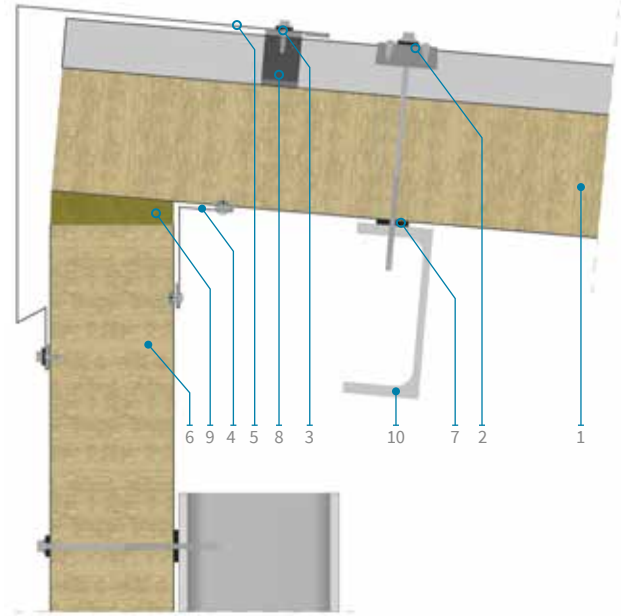
### WALL - ROOF EDGE CONNECTION



#### LEGEND

1. Isopan roof sandwich panel
2. Isopan fixing screw
3. External pre-painted steel fl ashing - Edge fl ashing
4. Internal pre-painted steel fl ashing
5. Flashing for fixing
6. Isopan wall sandwich panel
7. Gasket
8. Secodary structure
9. On-site insulating material

### ONE-SLOPE ROOF AND WALL CONNECTION



#### LEGEND

1. Isopan roof sandwich panel
2. Isopan fixing system with metal cap and screw
3. Screw for sheet fixing
4. Internal pre-painted steel flashing
5. External pre-painted steel flashing - ridge sheet
6. Isopan wall sandwich panel
7. Gasket
8. Giuntoplast Gasket
9. On-site insulating material
10. Secodary structure

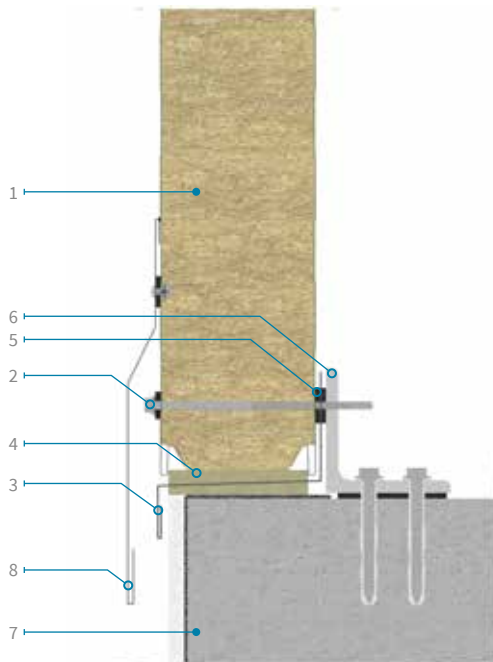


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# Technical Details and Assembly Drawings

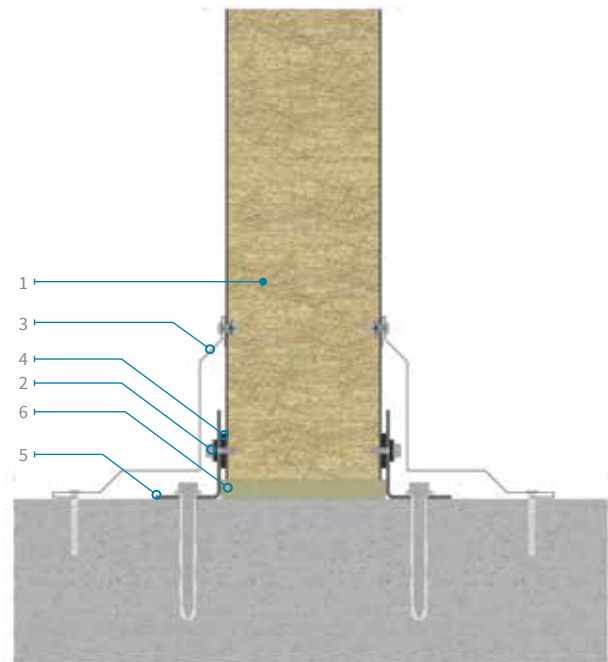
## GROUND CONNECTION



### LEGEND

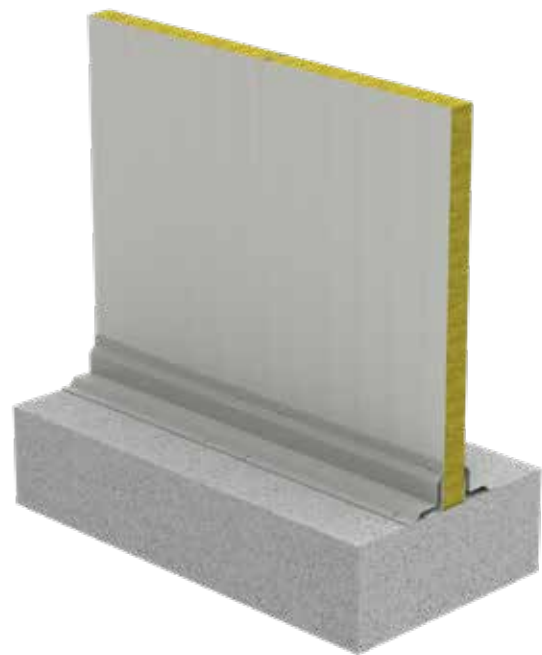
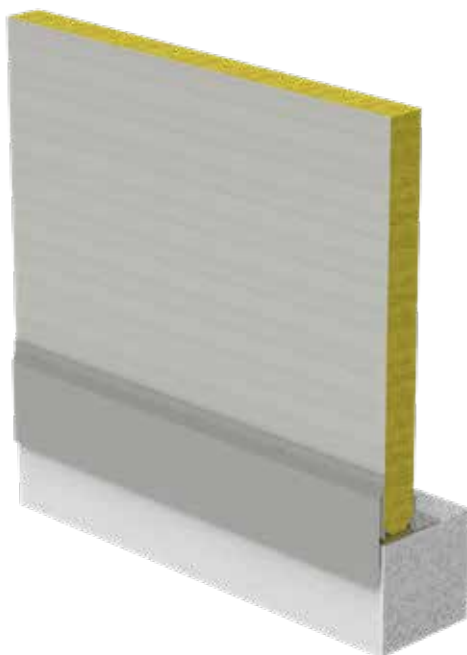
1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. Prepainted metal flashing - External dripping
4. On-site insulating
5. Gasket
6. Metal structure
7. Concrete structure
8. External metal flashing

## CONCRETE WALL CONNECTION



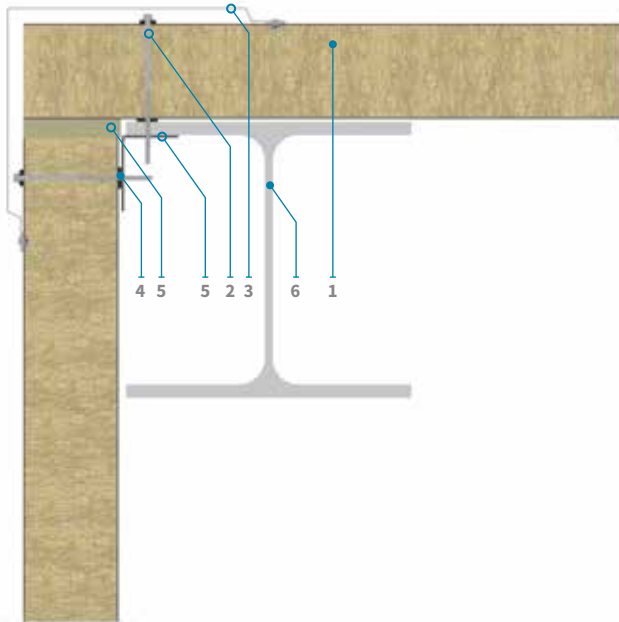
### LEGEND

1. Isopan Wall sandwich panel
2. Short Self drilling screw for panel fastening
3. External and internal prepainted metal flashing
4. Gasket
5. Anchoring metal profile
6. On-site insulating

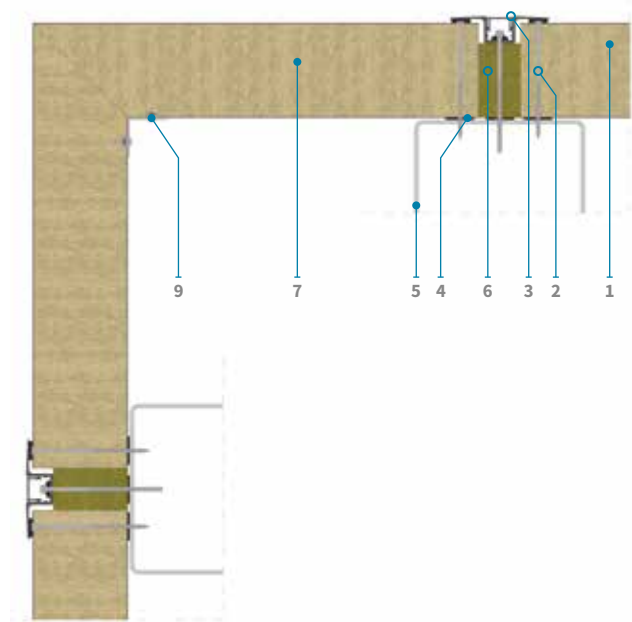


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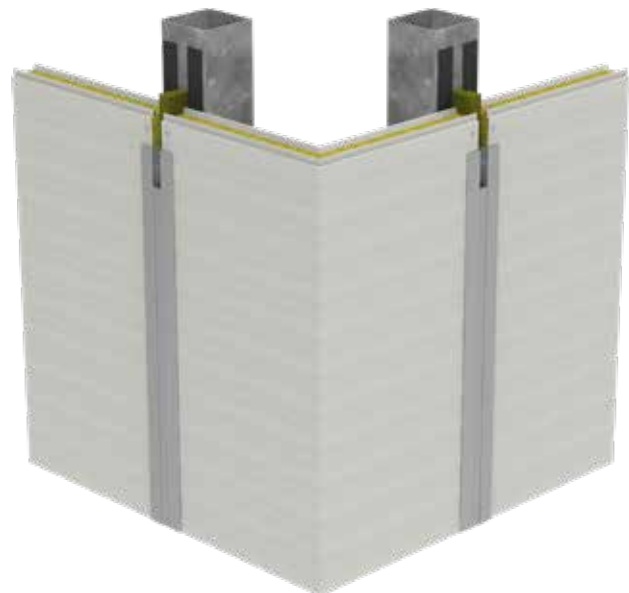
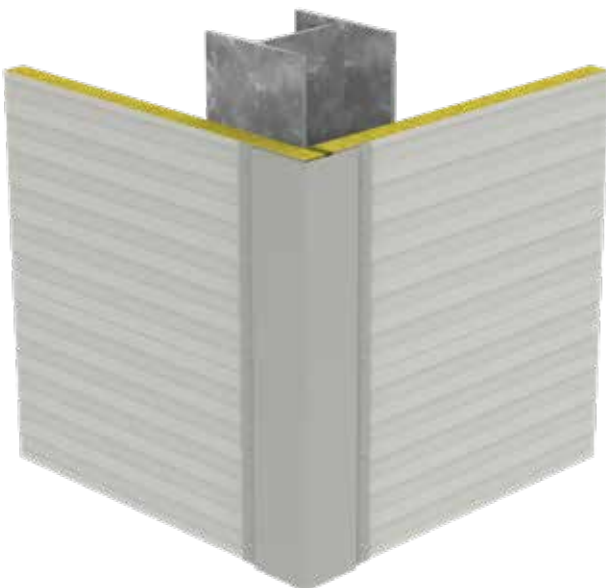


**CORNER CONNECTION - HORIZONTAL SECTION**

**LEGEND**

1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. Prepainted metal flashing - Corner closure
4. Gasket
5. On-site insulation
6. Primary steel structure
7. Steel profile welded

**CORNER PANELS**

**LEGEND**

1. Isopan Wall sandwich panel
2. Self drilling screw for panel fastening
3. Extruded aluminium joint cover ADD-Joint + Clip
4. Gasket
5. Load bearing structure
6. On-site insulation
7. Angular Corner Sandwich panel - Standard dimension
8. Internal flashing (preassembled)

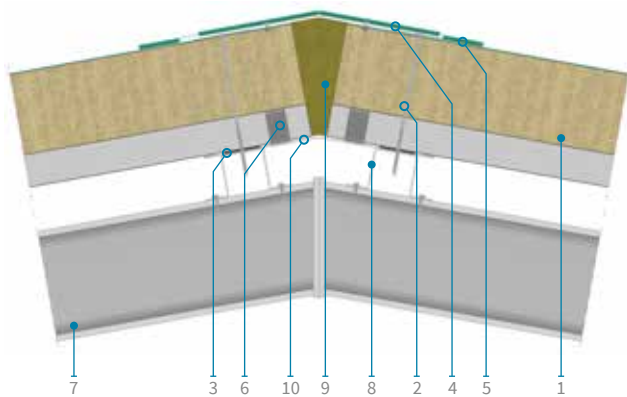


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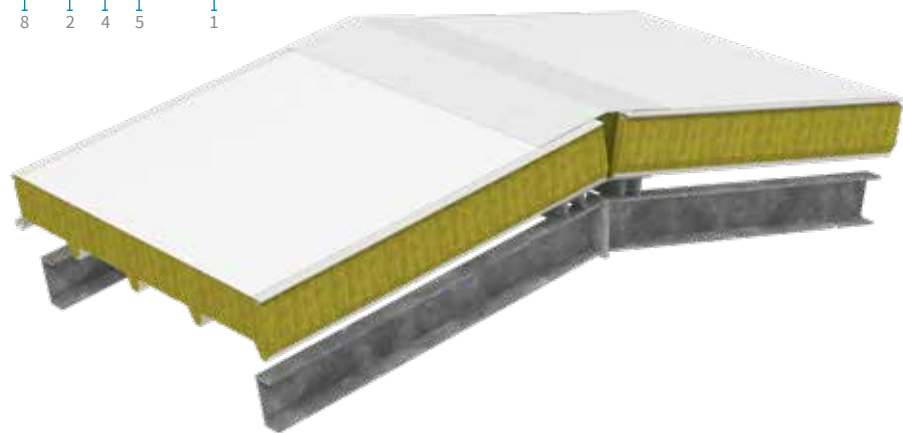
# Technical Details and Assembly Drawings

## RIDGE CONNECTION

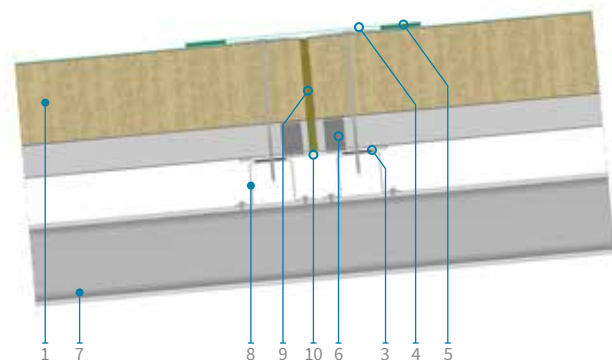


### LEGEND

1. Isopan Flat Roof sandwich panel
2. Fixing system (screw with metal or plastic cap)
3. Thermo separating tape
4. Pontage synthetic layer
5. Air welding
6. Giuntoplast Gasket
7. Primary structure
8. Secondary structure
9. On site insulating material / Mineral wool
10. Prepainted flashing

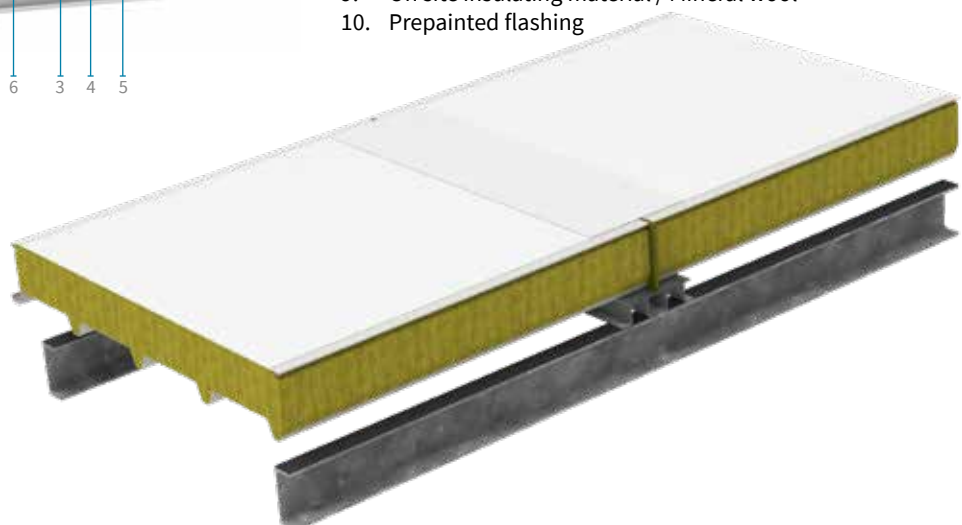


## PANEL TO PANEL HEAD JOINT



### LEGEND

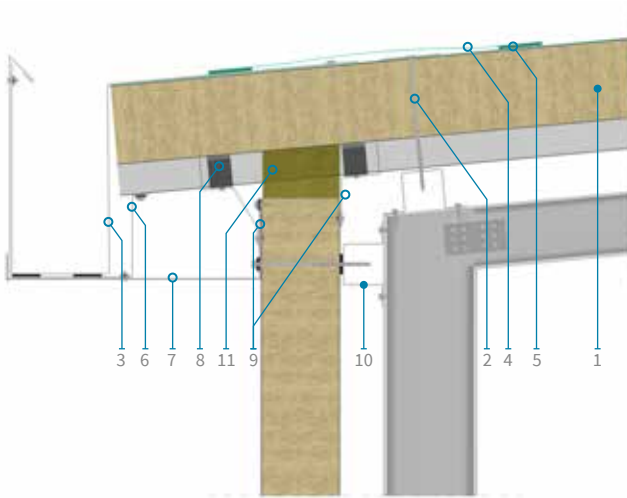
1. Isopan Flat Roof sandwich panel
2. Fixing system (screw with metal or plastic cap)
3. Thermo separating tape
4. Pontage synthetic layer
5. Air welding
6. Giuntoplast Gasket
7. Primary structure
8. Secondary structure
9. On site insulating material / Mineral wool
10. Prepainted flashing



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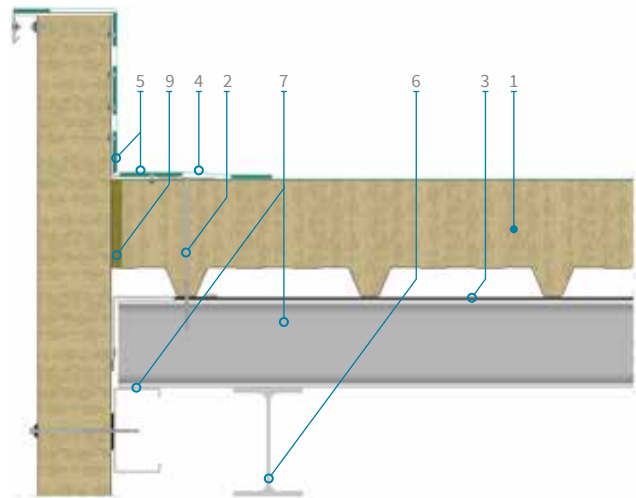
## OPEN GUTTER



### LEGEND

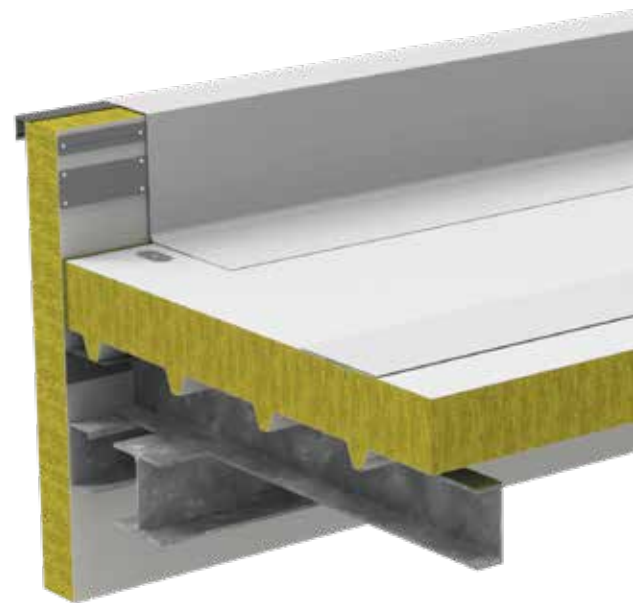
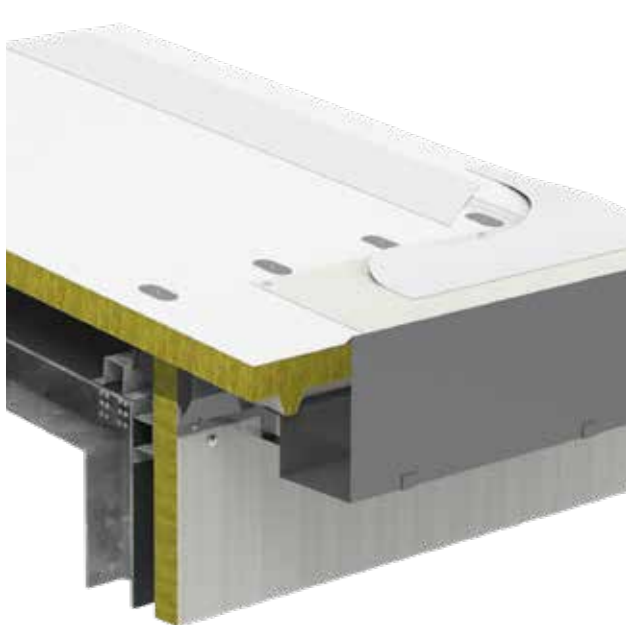
1. Isopan Flat Roof sandwich panel
2. Fixing system (screw with metal or plastic cap)
3. Gutter channel made with PVSTEEL Flashing
4. Pontage synthetic layer
5. Air welding
6. Metal Flashing with PVC/TPO layer, for Gutter Channel support
7. Metal support for gutter channel
8. Giuntoplast gasket
9. Metal flashing
10. Secondary structure
11. On site insulation

## PARAPET CONNECTION



### LEGEND

1. Isopan Flat Roof sandwich panel
2. Fixing system (screw with metal or plastic cap)
3. Thermo separating tape
4. Pontage synthetic layer
5. Air welding
6. Primary structure
7. Secondary structure
8. On site insulating material / Mineral wool
9. Pre-painted sheet



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