



MINERAL WOOL CORE

The extreme fire protection

MR044 / 1022

JORISIDE
THE STEEL FUTURE

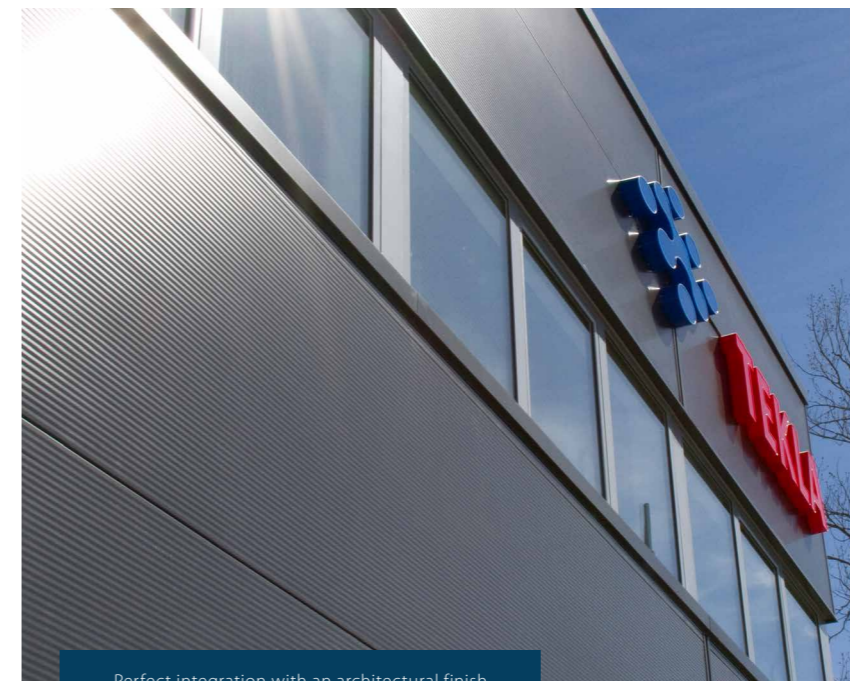
MINERAL WOOL CORE

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The extreme fire protection

The Joris Ide Group is one of the biggest, independent producers of metal insulated- and non-insulated roof and wall cladding products. As a complete package it offers both single skin profiles, purlins, PIR panels, accessories, flashings and mineral wool core panels for extreme fire protection.

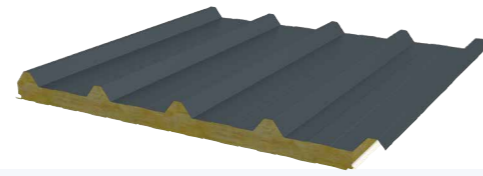


Currently the fire regulation is becoming more and more important and therefore raises the standards for both the architect, building owner and contractor. Therefore the Joris Ide Group has invested in products for roof and wall which combine the fire performance with architectural finish.

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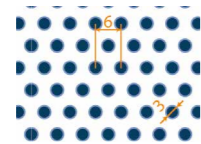
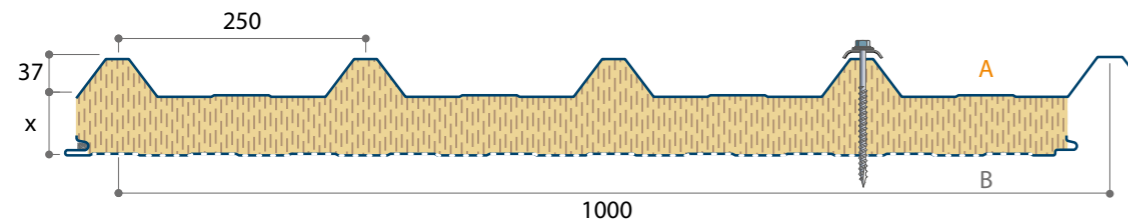


JI Vulcasteel Roof Alpha



Description

JI Vulcasteel Roof Alpha is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards.



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

Properties

| Core thickness | mm | 50 | 60 | 80 | 100 | 120 | 150 | 175 | 200 |
|----------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Weight | kg/m ² | 14,92 | 15,85 | 17,91 | 19,91 | 21,91 | 24,84 | 27,35 | 29,98 |
| U-value | W/m ² K | 0,77 | 0,66 | 0,51 | 0,41 | 0,35 | 0,28 | 0,24 | 0,21 |
| Rw (acc.) | DB | 28 (-3 ; -4) | 28 (-3 ; -5) | 28 (-2 ; -5) | 28 (-2 ; -5) | 28 (-1 ; -5) | 29 (-2 ; -5) | 29 (-1 ; -5) | 29 (-1 ; -5) |
| α_w | - | 0,85 | 0,85 | 0,85 | 0,85 | 0,90 | 0,90 | 0,95 | 0,95 |

System key benefits

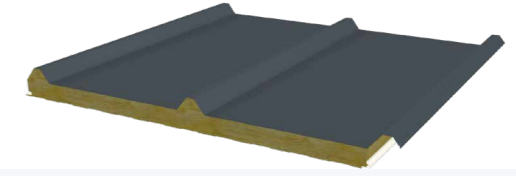
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-250-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15µ PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- Fire classification NPD
- Fast mounting
- Good thermal properties
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)

Performance JI Vulcasteel Roof Alpha

Project-specific calculations available on request.

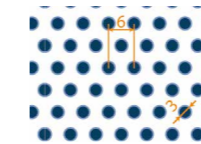
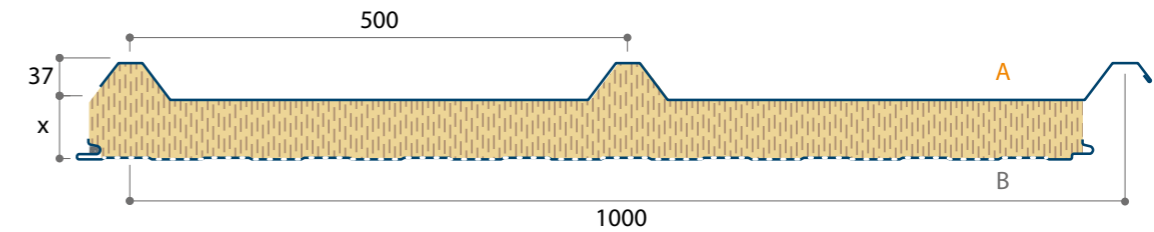
Please contact our technical assistance department for a loads and spans verification.

JI Vulcasteel Roof 37-500 Alpha



Description

JI Vulcasteel Roof Alpha is a mineral wool roof panel with trapezoidal metal outer sheet and metal liner. The panels can be applied for agricultural and industrial projects from a slope of 5° and onwards.



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

Properties

| Core thickness | mm | 50 | 60 | 80 | 100 | 120 | 150 | 175 | 200 |
|----------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Weight | kg/m ² | 14,43 | 15,43 | 17,43 | 19,42 | 21,42 | 24,44 | 26,96 | 29,41 |
| U-value | W/m ² K | 0,80 | 0,68 | 0,52 | 0,42 | 0,35 | 0,29 | 0,25 | 0,22 |
| Rw (acc.) | DB | 28 (-3 ; -4) | 28 (-3 ; -5) | 28 (-2 ; -5) | 28 (-2 ; -5) | 28 (-1 ; -5) | 29 (-2 ; -5) | 29 (-1 ; -5) | 29 (-1 ; -5) |
| α_w | - | 0,85 | 0,80 | 0,85 | 0,85 | 0,85 | 0,90 | 0,95 | 0,95 |

System key benefits

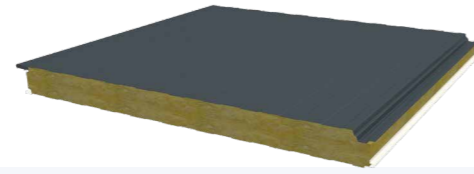
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37-500-1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15µ PE R9002. Other coatings are available on demand
- Produced according to EN ISO 14001
- Fire classification NPD
- Fast mounting
- Good thermal properties
- Cutback: min. 50 mm - max. 300 mm. (no cutback is also an option)

Performance JI Vulcasteel Roof 37-500 Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

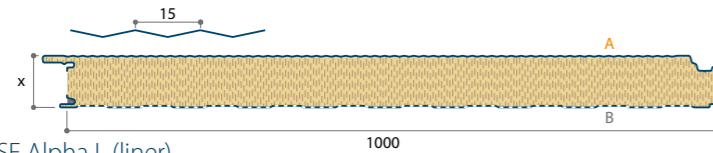
JI Vulcasteel Wall 1000SF Alpha



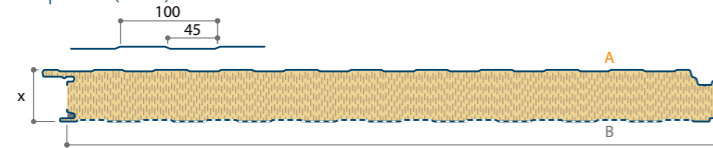
Description

The JI Vulcasteel Wall 1000SF Alpha is an architectural mineral wool panel with a Liner, Microrib or smooth profiled outer sheet. The inner sheet is Liner profiled and made of 15μ PE R9002. Due to the secret fixing the panel obtains a very high architectural finish for both vertical and horizontal applications.

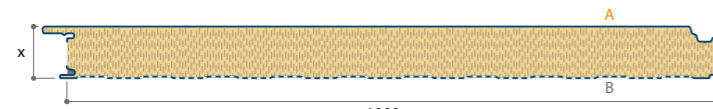
JI Vulcasteel Wall 1000SF Alpha M (microrib)



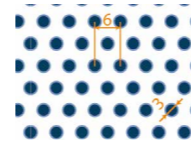
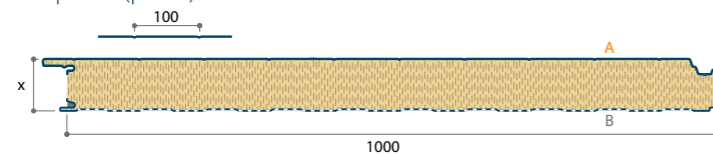
JI Vulcasteel Wall 1000SF Alpha L (liner)



JI Vulcasteel Wall 1000SF Alpha S (smooth)



JI Vulcasteel Wall 1000SF Alpha P (plank)



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

Properties

| Core thickness | mm | 50 | 60 | 80 | 100 | 120 | 150 | 175 | 200 |
|----------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Weight | kg/m ² | 13,90 | 14,90 | 16,90 | 18,90 | 20,90 | 23,90 | 26,40 | 28,90 |
| U-value | W/m ² K | 0,86 | 0,71 | 0,54 | 0,43 | 0,36 | 0,29 | 0,25 | 0,21 |
| Rw (acc.) | DB | 28 (-3;-4) | 29 (-4;-5) | 28 (-2;-5) | 28 (-2;-4) | 29 (-2;-6) | 29 (-2;-5) | 29 (-1;-5) | 30 (-2;-6) |
| α _w | - | 0,80 | 0,85 | 0,85 | 0,85 | 0,85 | 0,90 | 0,95 | 0,95 |

System key benefits

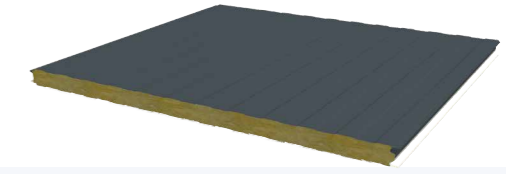
- Non-Combustible high density mineral wool core
- Standard 1000 mm modules
- Length up to 14 m
- Outer sheet can be Liner, Microrib, Plank or smooth profiling
- Different coatings and colours possible
- Inners sheet standard in liner profile 15μ PE R9002. Other coatings are available on demand
- Fire classification NPD
- Good thermal properties
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting

Performance JI Vulcasteel Wall 1000SF Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

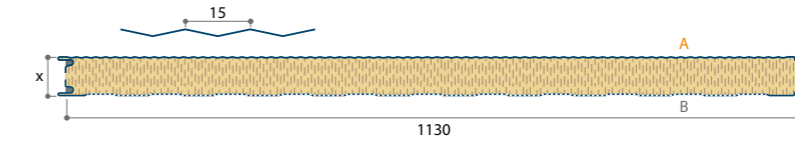
JI Vulcasteel Wall Alpha



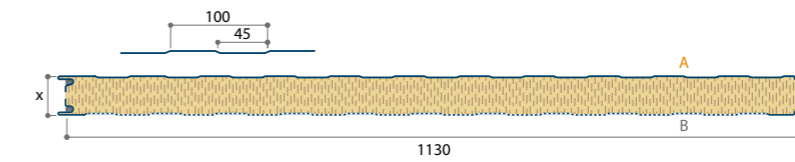
Description

The JI Vulcasteel Wall Alpha is a mineral wool panels with liner or microrib exterior profiling. The inner sheet is Liner profiled and 15μ PE R9002. The solution for your projects in the agricultural, industrial and even residential sectors with high acoustic requirements.

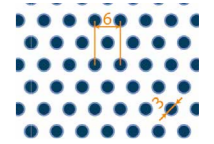
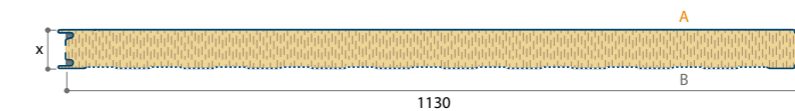
JI Vulcasteel Wall Alpha M (microrib)



JI Vulcasteel Wall Alpha L (liner)



JI Vulcasteel Wall Alpha S (smooth)



The range of products Vulcasteel Alpha has a 23% perforated inner face. Ideal to increase the acoustic absorption.

Properties

| Core thickness | mm | 50 | 60 | 80 | 100 | 120 | 150 | 175 | 200 |
|----------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Weight | kg/m ² | 14,60 | 15,60 | 17,60 | 19,60 | 21,60 | 23,60 | 24,60 | 25,60 |
| U-value | W/m ² K | 0,82 | 0,71 | 0,53 | 0,43 | 0,36 | 0,29 | 0,25 | 0,21 |
| Rw (acc.) | DB | 28 (-3;-5) | 28 (-3;-5) | 28 (-3;-5) | 28 (-2;-5) | 28 (-2;-5) | 28 (-1;-5) | 28 (-1;-5) | 29 (-2;-5) |
| α _w | - | 0,80 | 0,85 | 0,90 | 0,85 | 0,85 | 1,00 | 0,95 | 0,95 |

System key benefits

- Non-Combustible high density mineral wool core
- Standard 1130 mm modules
- Length up to 14 m
- Outer sheet can be Liner, Microrib or smooth profiling
- Visible fixation
- Different coatings and colours possible
- Inners sheet standard in liner profile 15μ PE R9002. Other coatings are available on demand
- Good thermal properties
- Vertical and horizontal application
- Fast mounting

Performance JI Vulcasteel Wall Alpha

Project-specific calculations available on request.

Please contact our technical assistance department for a loads and spans verification.

Product information

JI Vulcasteel Roof

Classification (according to EN 13501, see page 15)

| Combustibility | Smoke emission level | Flaming droplets |
|---------------------------|----------------------|--------------------|
| A2 | s1 | d0 |
| Fire resistance | | Protection to fire |
| JI Vulcasteel Roof 80 mm | REI 60 | Inside ⇒Outside |
| JI Vulcasteel Roof 100 mm | REI 120 | Inside ⇒Outside |
| JI Vulcasteel Roof 120 mm | REI 120 | Inside ⇒Outside |

JI Vulcasteel Wall 1000SF

Classification (according to EN 13501, see page 15)

| Combustibility | Smoke emission level | Flaming droplets |
|----------------------------------|----------------------|------------------|
| A2 | s1 | d0 |
| Fire resistance | | Installation |
| JI Vulcasteel Wall 1000SF 100 mm | EI 60 | Vertical |
| JI Vulcasteel Wall 1000SF 150 mm | EI 60 | Horizontal |
| JI Vulcasteel Wall 1000SF 200 mm | EI 180 | Vertical |

JI Vulcasteel Wall

Classification (according to EN 13501, see page 15)

| Combustibility | Smoke emission level | Flaming droplets |
|---------------------------|----------------------|---------------------|
| A2 | s1 | d0 |
| Fire resistance | | Installation |
| JI Vulcasteel Wall 80 mm | EI 30 | Vertical |
| JI Vulcasteel Wall 80 mm | EI 30 | Horizontal |
| JI Vulcasteel Wall 120 mm | EI 90 | Vertical |
| JI Vulcasteel Wall 150 mm | EI 60 / EI 120 | Horizontal |
| JI Vulcasteel Wall 200 mm | EI 120 | Vertical/Horizontal |

The fire classifications above must be used under the terms mentioned on the fire reports.
For the use of a perforated inner sheet (Vulcasteel Alpha Range) on a firewall, please contact the technical assistance department of Joris Ide.

European Standard

European Standard EN 13501-1 provides the reaction to fire classification procedure for all products and building elements. According to this Standard, reaction to fire is the response of a product in contributing by its own decomposition to a fire which it is exposed, under specified conditions (not to be confused with the fire resistance).

Products are considered in relation to their end use application are divided into three main categories:

- Construction products
- Flooring
- Linear pipe thermal insulation products (not considered here)

European Standard

Construction products are classified according harmonized test methods in Euroclass A1, A2, B, C, D & F. Products classified in a given class are deemed to satisfy all the requirements of any lower class. Products classified in A1 & A2 classes are non-combustible (cement, concrete, minerals, glass, fibreglass,

rock wool, ceramic, etc.), Materials certified from B to F are combustible in ascending order. Flooring materials are classified according to the same classes A1, A2, B, C, D, E & F followed by the abbreviation "fl" flooring.

Classification according to European Standard EN 13501-1

| Definition | Construction products | | | Floorings | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------|-----------------------|
| Non-combustible materials | A1 | | | A1 _{fl} | |
| Non-combustible materials | A2-s1, d0 A2-s2, d0 A2-s3, d0 | A2-s1, d1 A2-s2, d1 A2-s3, d1 | A2-s1, d2 A2-s2, d2 A2-s3, d2 | A2 _{fl} - s1 | A2 _{fl} - s2 |
| Combustible materials very limited contribution to fire | B-s1, d0 B-s2, d0 B-s3, d0 | B-s1, d1 B-s2, d1 B-s3, d1 | B-s1, d2 B-s2, d2 B-s3, d2 | B _{fl} - s1 | B _{fl} - s2 |
| Combustible materials limited contribution to fire | C-s1, d0 C-s2, d0 C-s3, d0 | C-s1, d1 C-s2, d1 C-s3, d1 | C-s1, d2 C-s2, d2 C-s3, d2 | C _{fl} - s1 | C _{fl} - s1 |
| Combustible materials medium contribution to fire | D-s1, d0 D-s2, d0 D-s3, d0 | D-s1, d1 D-s2, d1 D-s3, d1 | D-s1, d2 D-s2, d2 D-s3, d2 | D _{fl} - s1 | D _{fl} - s1 |
| Combustible materials highly contribution to fire | E | E - d2 | | E _{fl} | |
| Combustible materials - easily flammable | F | | | F _{fl} | |

Description

All the materials classified A2, B, C, D obtain an additional classification regarding the emission of smoke and the production of flaming droplets and/or particles.

| | Definition | Level | Level definition |
|----------|--|-----------|---|
| s | Smoke emission level during combustion | s1 | Quantity/Speed of emission absent or weak |
| | | s2 | Quantity/speed of emission of average intensity |
| | | s3 | Quantity/speed of emission of high intensity |
| d | Production of flaming droplets/particles during combustion | d0 | No dripping |
| | | d1 | Slow dripping |
| | | d2 | High dripping |

For the E class is provided one single subclass d2. For flooring products is provided the additional classification "s" for smoke emission only.



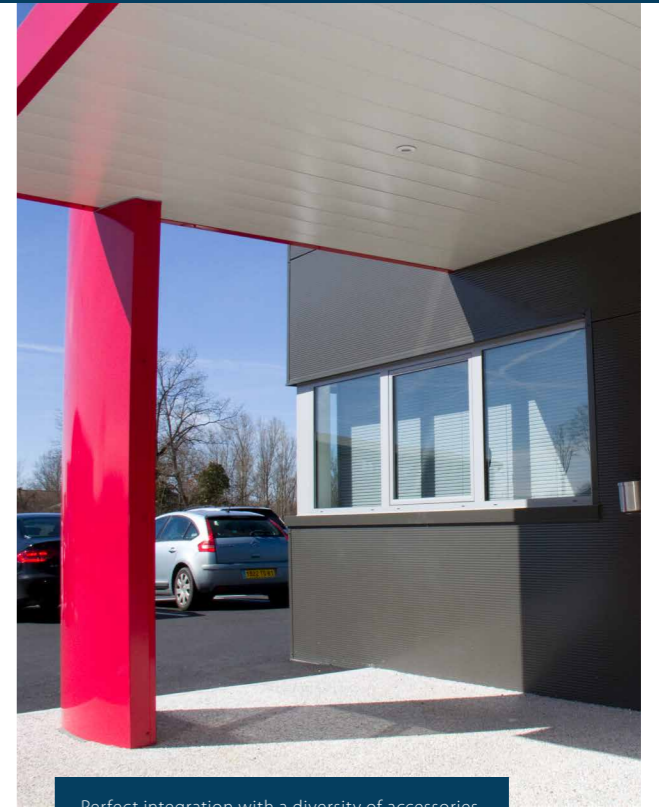
JI Vulcasteel Wall and JI Vulcasteel Wall 1000SF next to each other.



JI Vulcasteel Wall 1000SF in a commercial project.



JI Vulcasteel Wall 1000SF used in an industrial project.



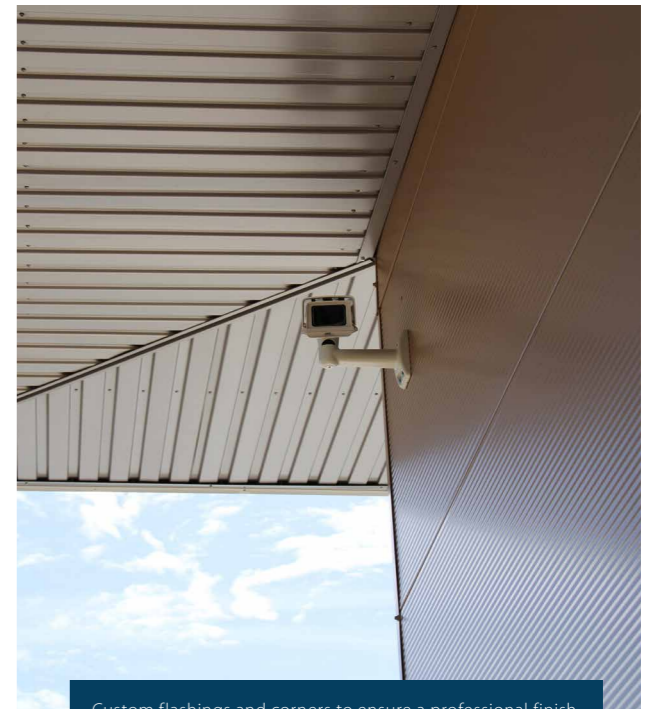
Perfect integration with a diversity of accessories.



JI Vulcasteel Wall Alpha, an acoustic variation of the product.



Joris Ide proposes complete solutions for all your cladding and roofing projects.



Custom flashings and corners to ensure a professional finish.



JORISIDE

THE STEEL FUTURE

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With more than 30 years of experience, Joris Ide represents a guarantee of quality in the construction market. We provide solutions in all fields: acoustic, aesthetic, fire, thermal. Joris Ide, the essential partner for all your projects.

JORIS IDE IS
PLANET
PASSIONATE

