

MINERAL WOOL CORE

The extreme fire protection

MR044 / 0520



JORISIDE
THE STEEL FUTURE



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Mineral Wool Core

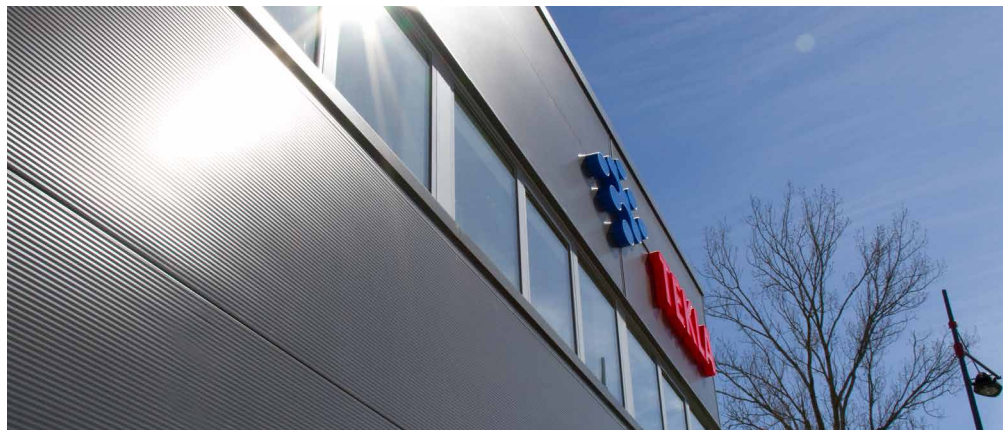
The extreme fire protection

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.

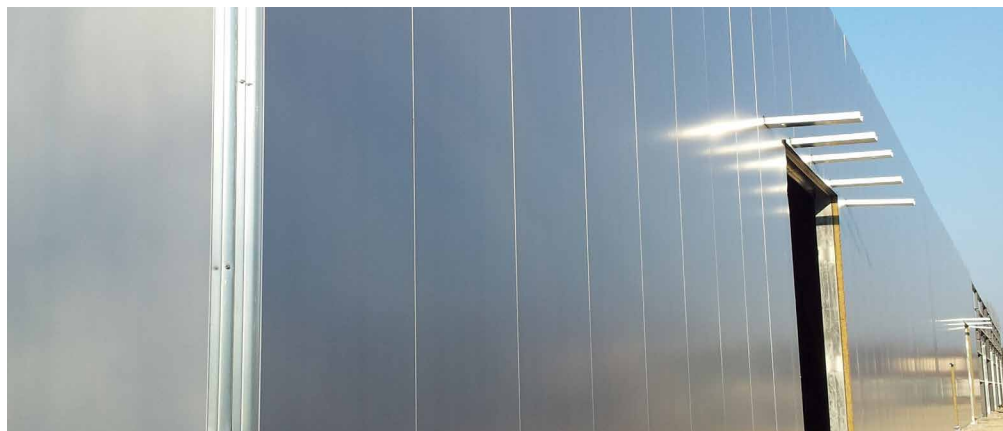
Currently the fire regulation is becoming more and more important and therefore raises the standards for both the architect, building owner and contractor. Therefore the Joris Ide Group has invested in products for roof and wall which combine the fire performance with architectural finish.



JI Vulcasteel Wall 1000SF



Perfect integration with an architectural finish



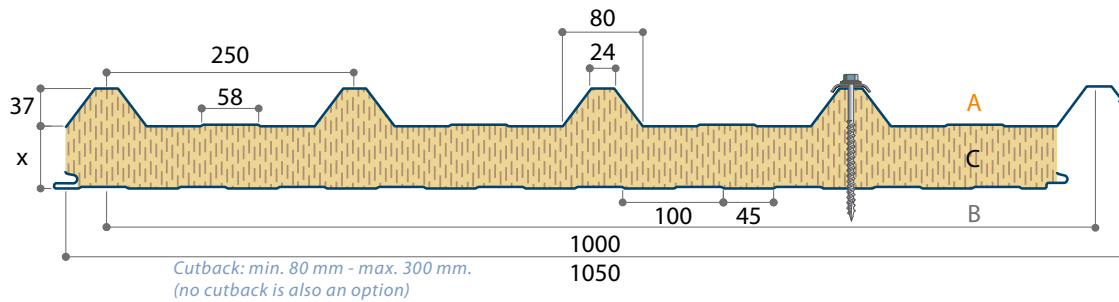
JI Vulcasteel Wall 1000SF in industrial environments.

JI Vulcasteel Roof

Description



JI Vulcasteel Roof 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.

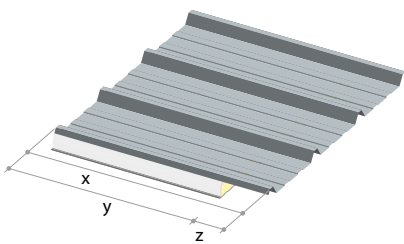


Properties

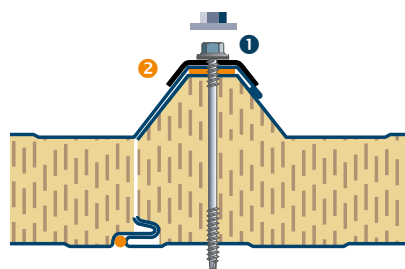
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m ²	16,00	17,00	19,00	21,00	23,00	26,00	28,50	31,00
U-value	W/m ² K	0,76	0,64	0,50	0,40	0,34	0,27	0,24	0,21
Rw (acc.)	DB	29,00	30,00	30,00	33,00	33,00	33,00	33,00	34,00

System key benefits

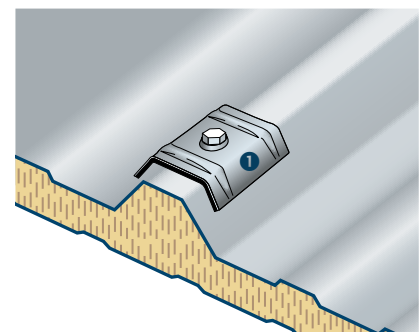
- Non-Combustible high density mineral wool core
- Useful width of 1000 mm
- Trapezoidal metal outer sheet (37 / 250 / 1000)
- Different coatings and colours possible
- Inners sheet standard in liner profile 15μ PE R9002 or 25u PE R9010. Other coatings are available on demand
- Produced according to EN 14001
- CE-marked
- Fire classification A2-s1, d0 according to EN 13501-1
- Fast mounting
- Good thermal properties



x. Panel length
y. Insulation length
z. Cut-back



1. Screw
2. Butyl



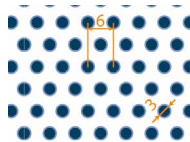
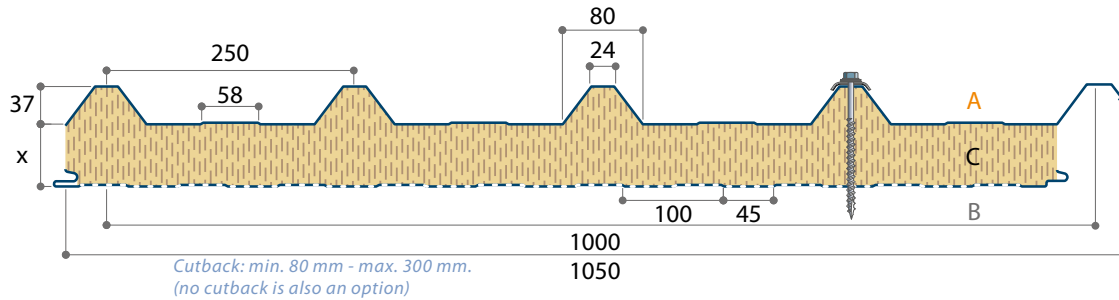
1. Saddle washer

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.

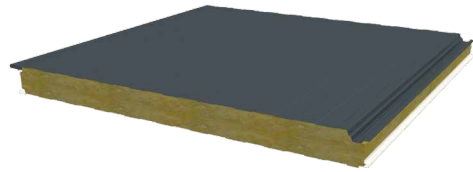
Properties

Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m ²	15,30	16,30	18,30	20,30	22,30	25,30	27,80	30,30
U-value	W/m ² K	0,76	0,64	0,50	0,40	0,34	0,27	0,24	0,21
Rw (acc.)	DB	27,00	28,00	29,00	29,00	30,00	30,00	30,00	31,00
α_w	-	0,75	0,90	0,85	0,85	0,80	0,75	0,75	0,80

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 15 μ PE R9002 or 25 μ PE R9010. Other coatings are available on demand
- Produced according to EN 14001
- CE-marked
- Fire classification A2-s1, d0 according to EN 13501-1
- Fast mounting
- Good thermal properties

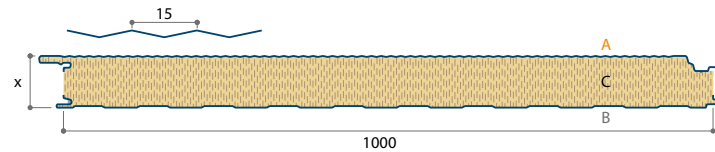
JI Vulcasteel Wall 1000SF



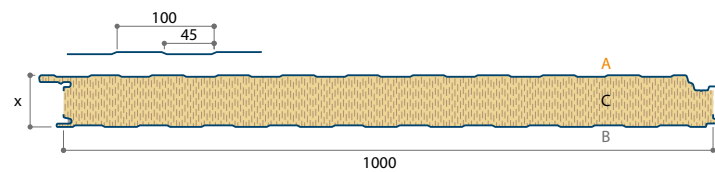
Description

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

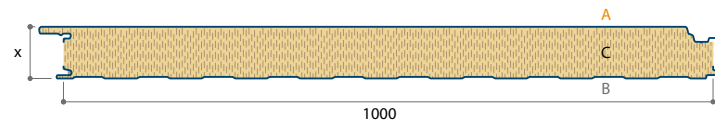
JI Vulcasteel Wall 1000SF M (microrib)



JI Vulcasteel Wall 1000SF L (liner)



JI Vulcasteel Wall 1000SF S (smooth)

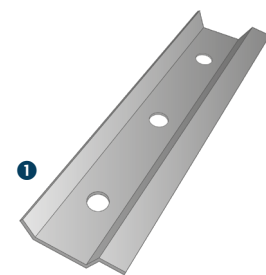


Properties

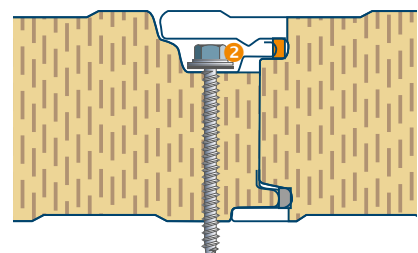
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m ²	14,60	15,60	17,60	19,60	21,60	24,60	27,10	29,60
U-value	W/m ² K	0,85	0,70	0,53	0,42	0,35	0,29	0,25	0,21
Rw (acc.)	DB	28,00	29,00	30,00	30,00	31,00	32,00	33,00	34,00

System key benefits

- Non-Combustible high density mineral wool core
- Standard 1000 mm modules but available in 900 mm – 800 mm on demand
- 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 15 μ PE R9002 or 25 μ PE R9010. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Good thermal properties
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting

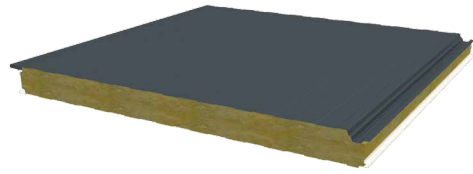


Length 120 mm, 3 holes (\varnothing 7 mm)



To mount the JI Vulcasteel Wall 1000 Secret Fixation a stainless steel spreader plate ❶ must be used in the joint ❷. This to spread the loads for a maximal span performance.

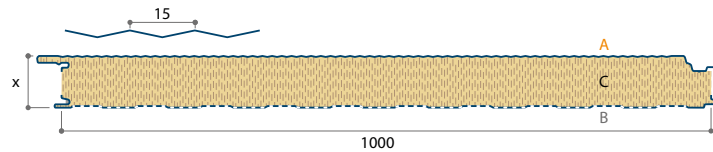
JI Vulcasteel Wall 1000SF Alpha



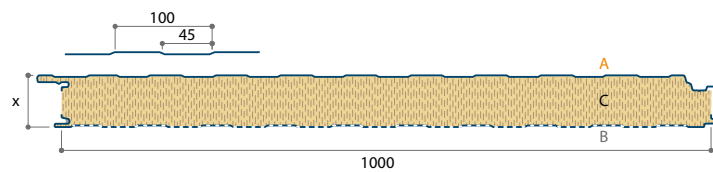
Description

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 15 μ PE R9002. Due to the secret fixing the panel obtains a very high architectural finish for both vertical and horizontal applications.

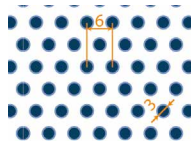
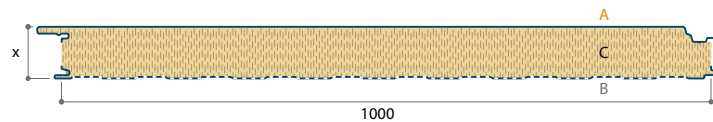
JI Vulcasteel Wall 1000SF Alpha M (microrib)



JI Vulcasteel Wall 1000SF Alpha L (liner)



JI Vulcasteel Wall 1000SF Alpha S (smooth)



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

Properties

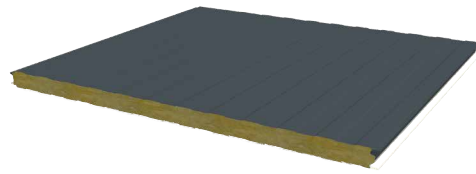
Core thickness	mm	50	60	80	100	120	150	175	200
Weight	kg/m ²	13,90	14,90	16,90	18,90	20,90	23,90	26,40	28,90
U-value	W/m ² K	0,85	0,70	0,53	0,42	0,35	0,29	0,25	0,21
Rw (acc.)	DB	26,00	27,00	30,00	29,00	30,00	30,00	30,00	31,00
α_w	-	0,75	0,90	0,85	0,85	0,80	0,75	0,75	0,80

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 15 μ PE R9002 or 25 μ PE R9010. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Good thermal properties
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting

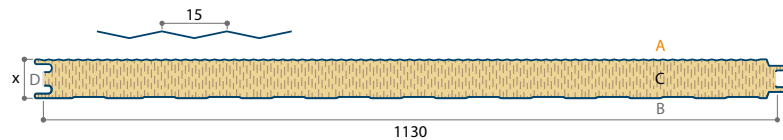
JI Vulcasteel Wall

Description

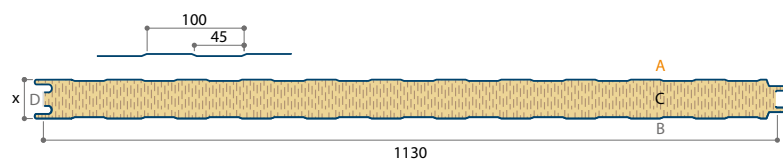


The JI Vulcasteel Wall is a mineral wool panels with liner or microrib exterior profiling. The inner sheet is Liner profiled and 15 μ PE R9002. Due to a maximum 4 hour fire resistance this panel is often applied for agricultural, public or industrial projects where high fire resistance is required. This for both internal as external fire walls.

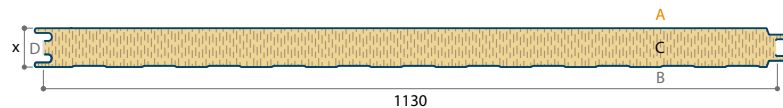
JI Vulcasteel Wall M (microrib)



JI Vulcasteel Wall L (liner)



JI Vulcasteel Wall S (smooth)

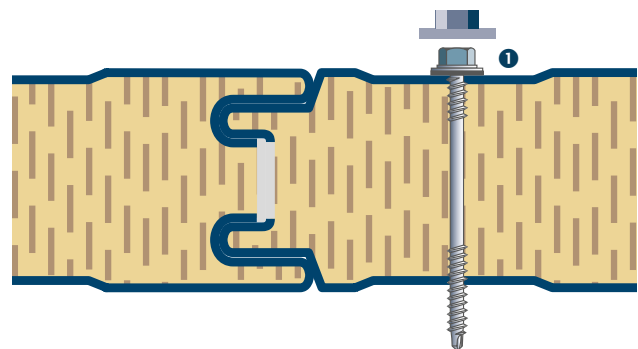


Properties

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	0,81	0,69	0,52	0,42	0,35	0,28	0,25	0,22
Rw (acc.)	DB	28,00	30,00	30,00	30,00	31,00	32,00	33,00	34,00

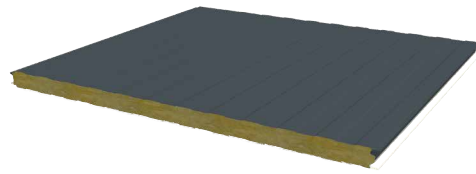
System key benefits

- Non-Combustible high density mineral wool core
- Standard 1130 mm modules but available in 1000 mm – 900 mm – 800 mm on demand
- 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 15 μ PE R9002 or 25 μ PE R9010. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Good thermal properties
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting



1. Visible fixation

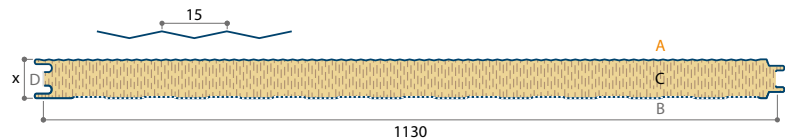
JI Vulcasteel Wall Alpha



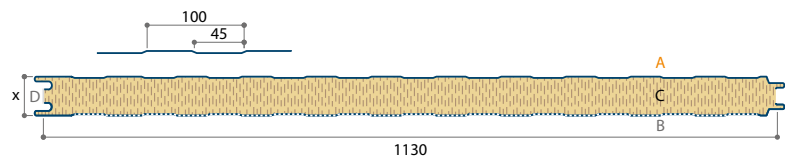
Description

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. Due to a maximum 4 hour fire resistance this panel is often applied for agricultural, public or industrial projects where high fire resistance is required. This for both internal as external fire walls.

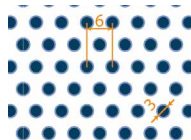
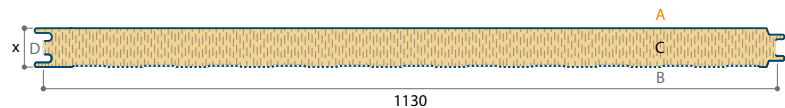
JI Vulcasteel Wall Alpha M (microrib)



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	0,81	0,69	0,52	0,42	0,35	0,28	0,25	0,22
Rw (acc.)	DB	26,00	27,00	30,00	29,00	30,00	30,00	30,00	31,00
α _w	-	0,75	0,90	0,85	0,85	0,80	0,75	0,75	0,80

System key benefits

- Non-Combustible high density mineral wool core
- Standard 1130 mm modules but available in 1000 mm on demand
- 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 or 25u PE R9010. Other coatings are available on demand
- Fire classification A2-s1, d0 according to EN 13501-1
- Good thermal properties
- Mounting with spreader plate
- Vertical and horizontal application
- Fast mounting

Product information

JI Vulcasteel Roof

Classification (according to EN 13501, see page 15)

Combustibility	Smoke emission level	Flaming droplets
A2	s1	d0
Classification A2-s1, d0 (non-flammable)		
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
Classification A2-s1, d0		
JI Vulcasteel Wall 1000SF 100 mm	EI 60	Inside ⇌ Outside Outside ⇌ Inside
JI Vulcasteel Wall 1000SF 150 mm	EI 60	Horizontal installation Inside ⇌ Outside

JI Vulcasteel Wall

Classification (according to EN 13501, see page 15)

Combustibility	Smoke emission level	Flaming droplets
A2	s1	d0
Classification A2-s1, d0 (non-flammable)		
JI Vulcasteel Wall 80 mm	EI 60	Inside ⇌ Outside Outside ⇌ Inside
JI Vulcasteel Wall 100 mm	EI 90	Inside ⇌ Outside Outside ⇌ Inside
JI Vulcasteel Wall 120 mm	EI 120	Inside ⇌ Outside Outside ⇌ Inside
JI Vulcasteel Wall 120 mm	EI 180	Horizontal installation Inside ⇌ Outside Outside ⇌ Inside

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			A _{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	A _{fl} - s1	A _{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.



Perfect integration with a diversity of accessories.



Custom flashings and corners to ensure a professional finish.



Jl Vulcasteel Wall 1000SF in a commercial project.



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



JI Vulcasteel Wall 1000SF used in an industrial project.



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



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



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