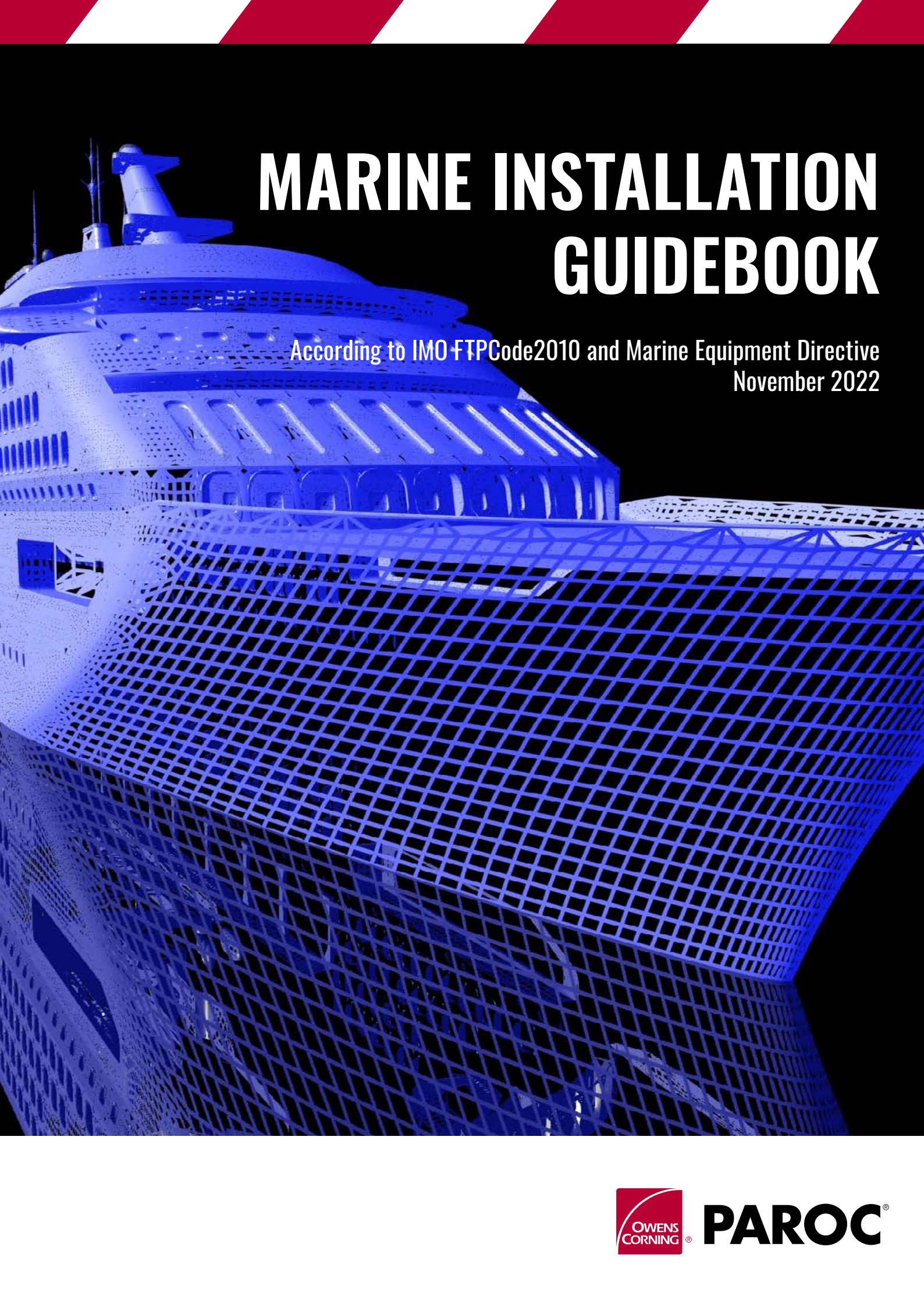




MARINE INSTALLATION GUIDEBOOK

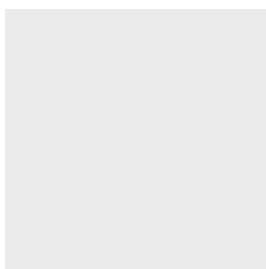
According to IMO FTPCode2010 and Marine Equipment Directive
November 2022



PAROC®

SUMMARY

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Marine and offshore
applications

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PAROC MARINE NAVIS SOLUTIONS – STEEL DECK & BULKHEAD



**EASY
SYSTEM**



**FAST
INSTALLATION**



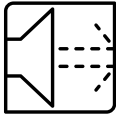
**LESS TOTAL
PRODUCTS
FOR A PROJECT**



**THERMAL
INSULATION
PERFORMANCE**



**FIREPROOFING
PERFORMANCE**



**ACOUSTICS
PERFORMANCE**



MATS



SLAB



PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032
PAROC Marine Navis 40	40	0,034

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D1.1	A60	60/50	60/30	3,0 / 1,8	47 (-1,-6)
D1.2	A60	40/70	60/30	2,8 / 1,8	47 (-2,-6)
D2.1	A30	60/30	60/30	1,8 / 1,8	46 (-2,-6)
D3.1	A15	60/30	NOT REQUIRED	1,8 / 0	45 (-1,-5)
D3.2	A15	40/60	NOT REQUIRED	2,4 / 0	

BULKHEAD

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
B1.1	A60	60/60	60/30	3,6 / 1,8	47 (-1,-6)
B2.1	A30	60/40	60/30	2,4 / 1,8	47 (-2,-6)
B2.2	A30	40/60	60/30	2,4 / 1,8	47 (-2,-6)
B3.1	A15	60/30	NOT REQUIRED	1,8 / 0	45 (-1,-5)

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

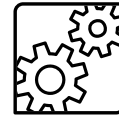
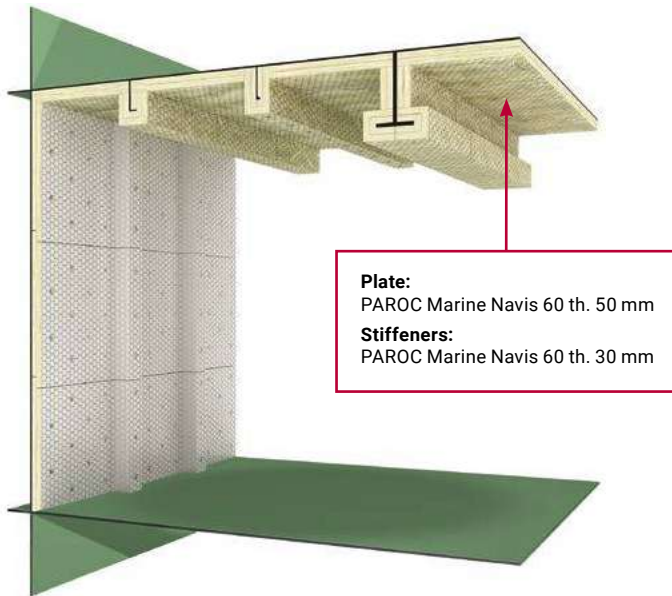
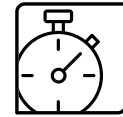
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

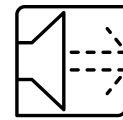
CONTACT

A60 STEEL DECK – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

D1.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**2 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A60

47 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners
 	 

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _b)
D1.1	A60	60/50	60/30	3,0 / 1,8	47 (-1,-6)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

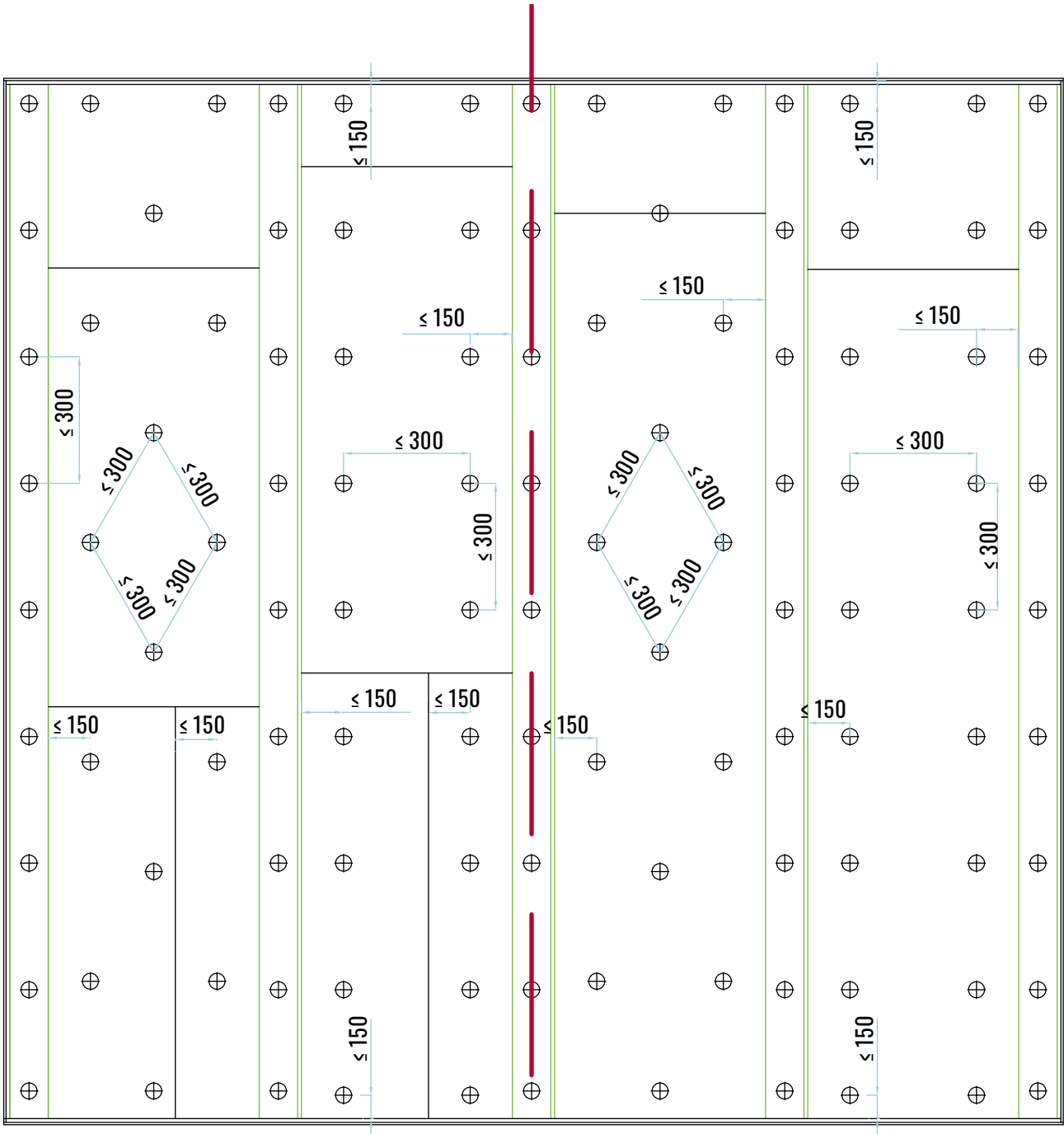
D1.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

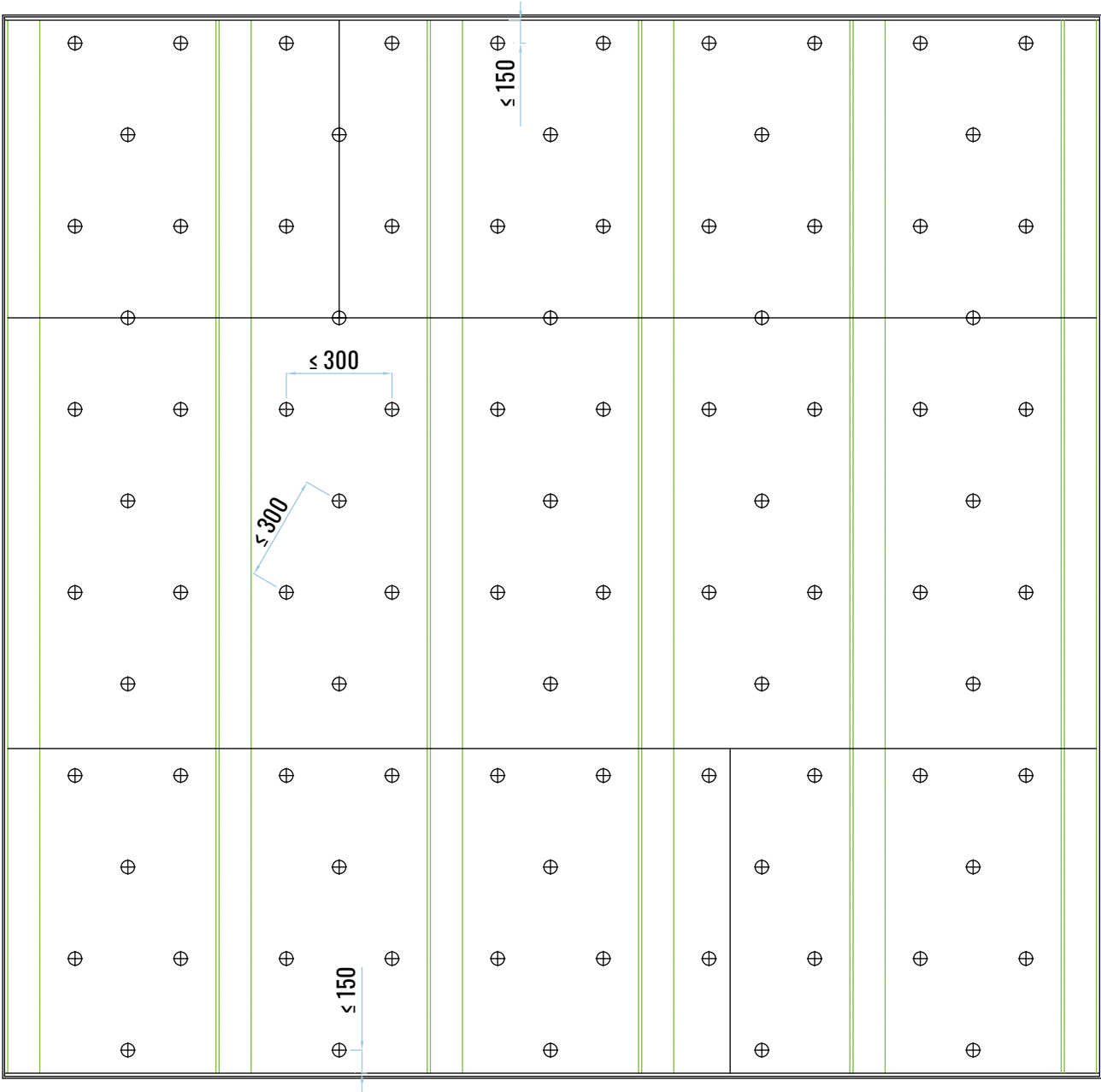
CONTACT

APPLICATION GUIDE – PIN PATTERN

D1.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

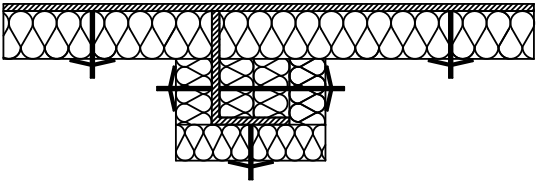
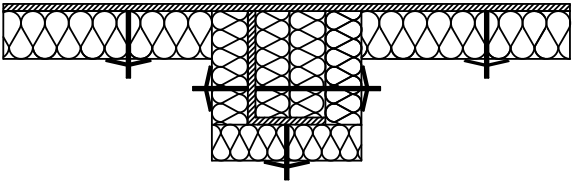
CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D1.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 50 mm

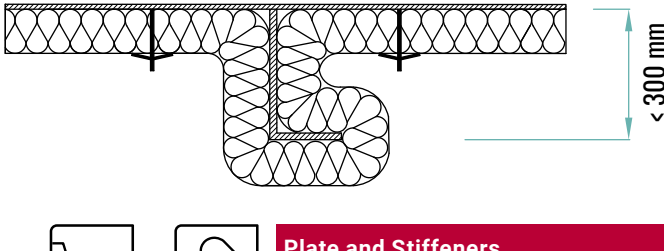
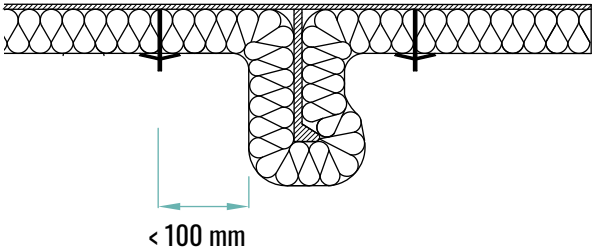


SLAB

Stiffeners

PAROC Marine Navis 60 th. 30 mm

2)



< 100 mm

< 300 mm



1 PRODUCTS
PER SOLUTION

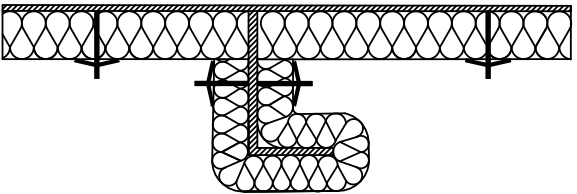
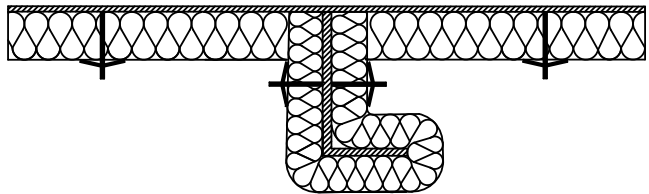
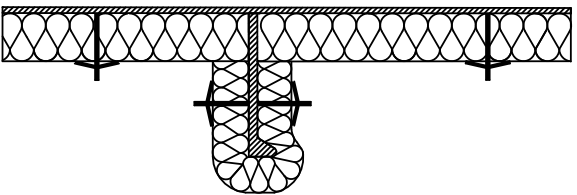
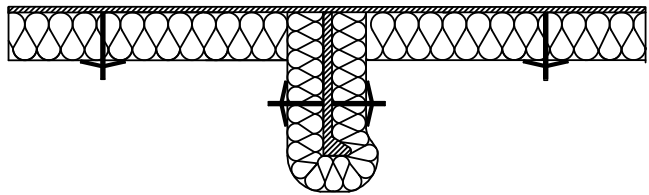


MATS

Plate and Stiffeners

PAROC Marine Navis 60 th. 50 mm

3)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 50 mm



MATS

Stiffeners

PAROC Marine Navis 60 th. 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

D1.1



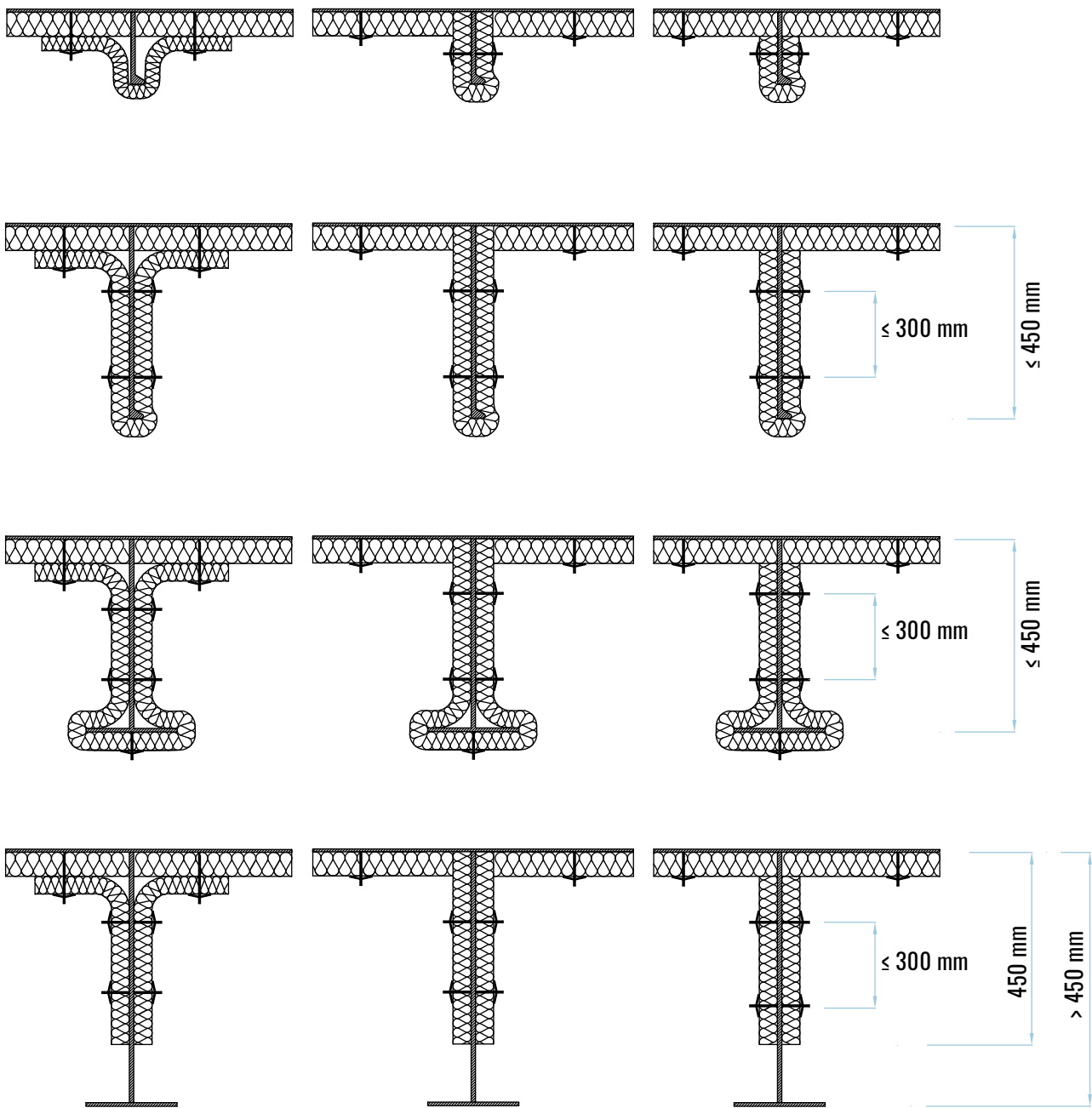
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

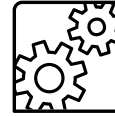
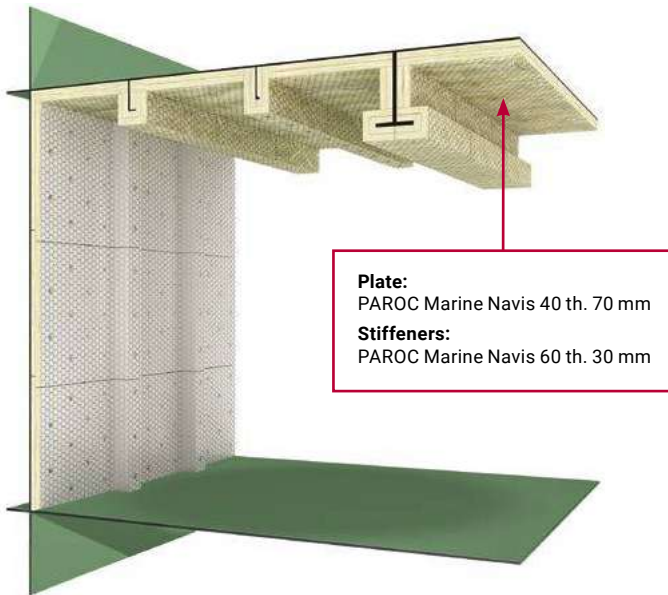
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

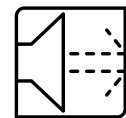
A60 STEEL DECK – PAROC MARINE NAVIS 40 kg/m³ SOLUTION

D1.2

**EASY
SYSTEM**

**FAST
INSTALLATION**

**2 PRODUCTS
FOR SOLUTION**

 λ 0,034 W/mK

A60

47 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 40	40	0,034
PAROC Marine Navis 60	60	0,032

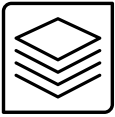
Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
D1.2	A60	40/70	60/30	2,8 / 1,8	47 (-2,-6)

APPLICATION GUIDE – PIN PATTERN

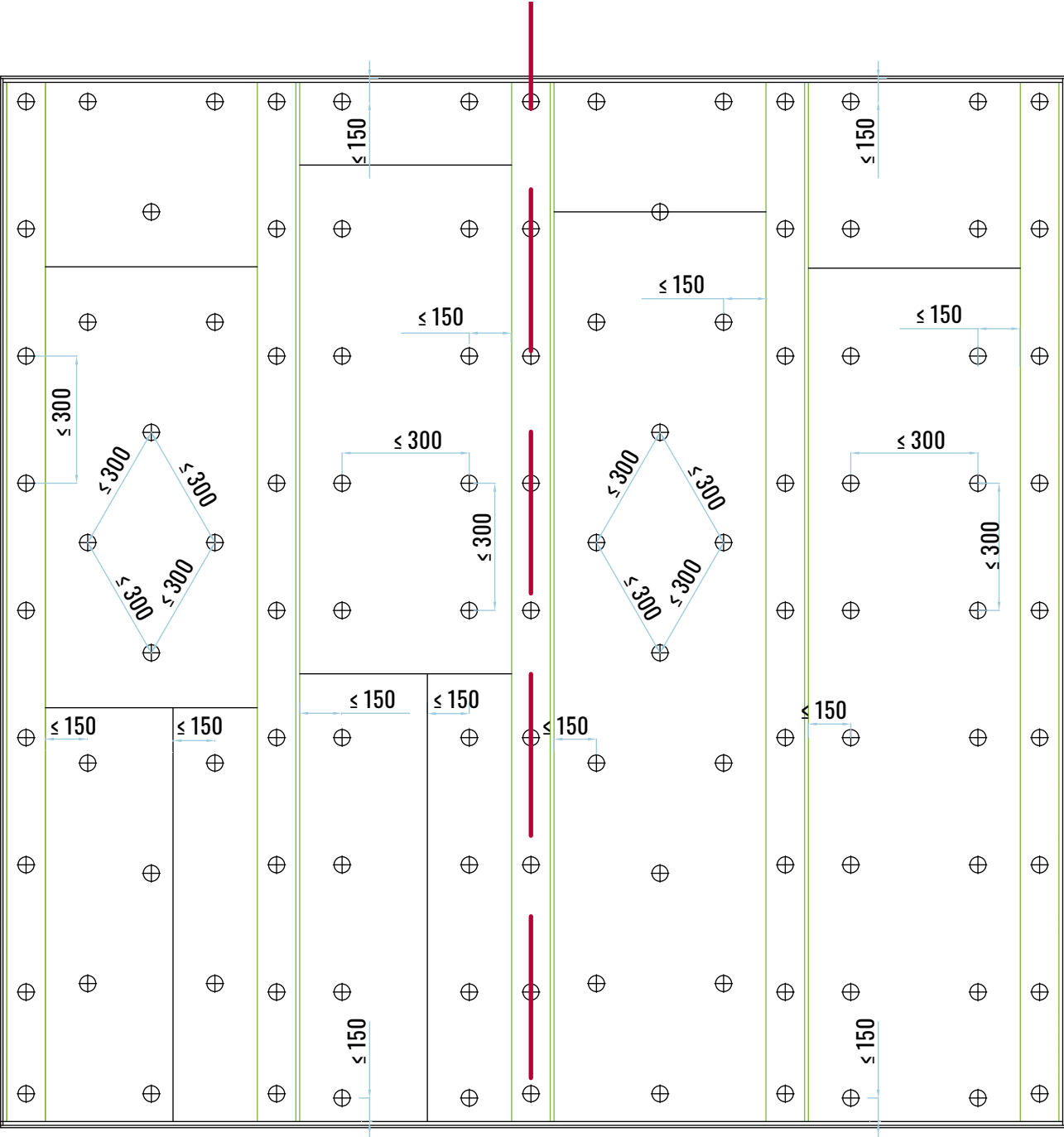
D1.2



SLABS



MATS & WIRED MATS

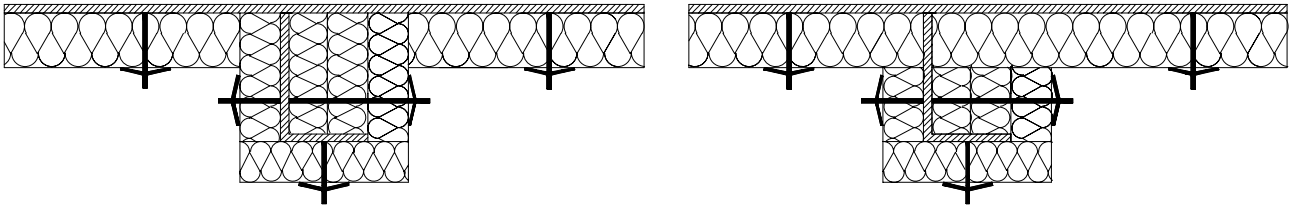


Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D1.2

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS



SLAB



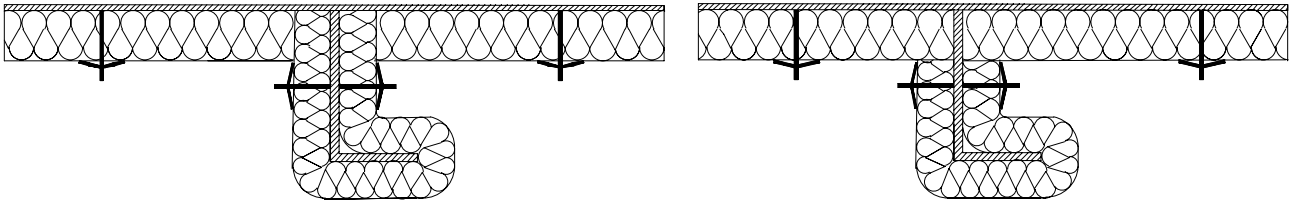
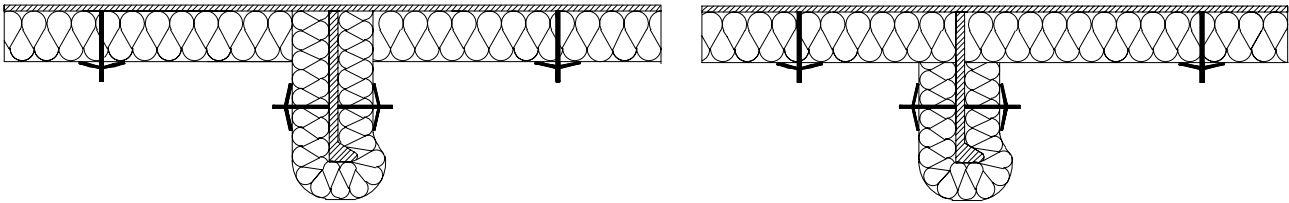
MATS

Plate

PAROC Marine Navis 40 th. 70 mm

Stiffeners

PAROC Marine Navis 60 th. 30 mm



SLAB



MATS

Plate

PAROC Marine Navis 40 th. 70 mm

Stiffeners

PAROC Marine Navis 60 th. 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

D1.2



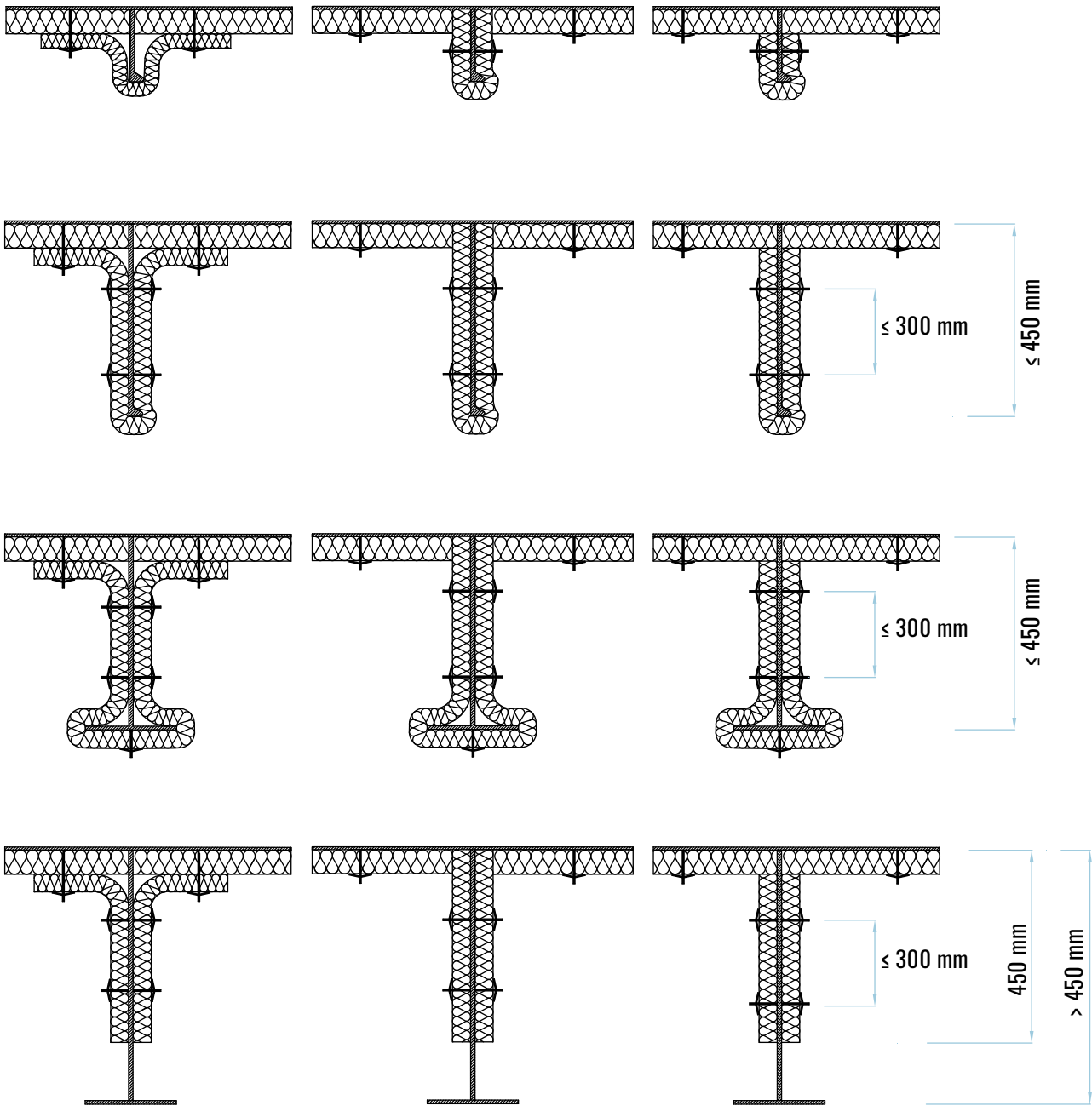
FAST
INSTALLATION



MATS

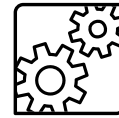
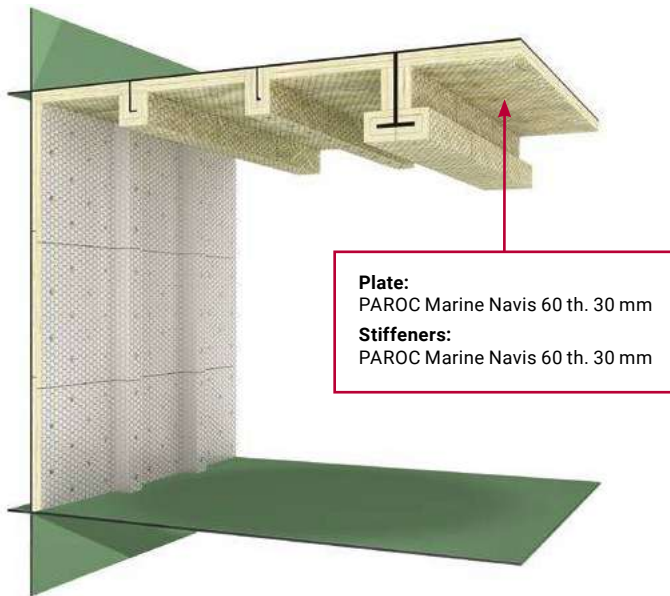
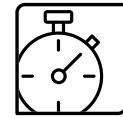
1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



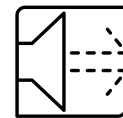
According to MSC/Circ.1120 where stiffeners are > 450 mm

A30 STEEL DECK – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

D2.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**1 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A30

46 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
D2.1	A30	60/30	60/30	1,8 / 1,8	46 (-2,-6)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

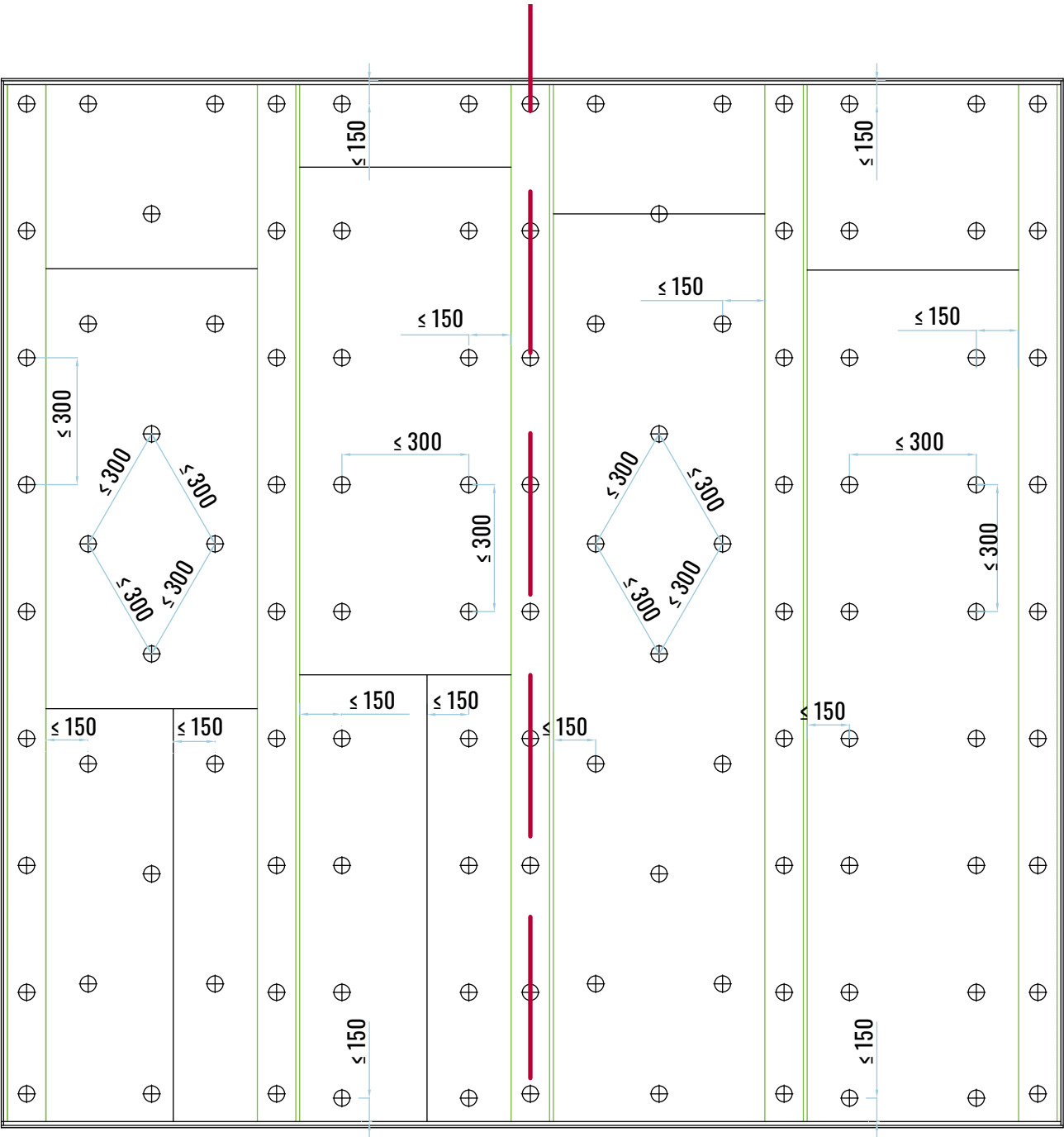
D2.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

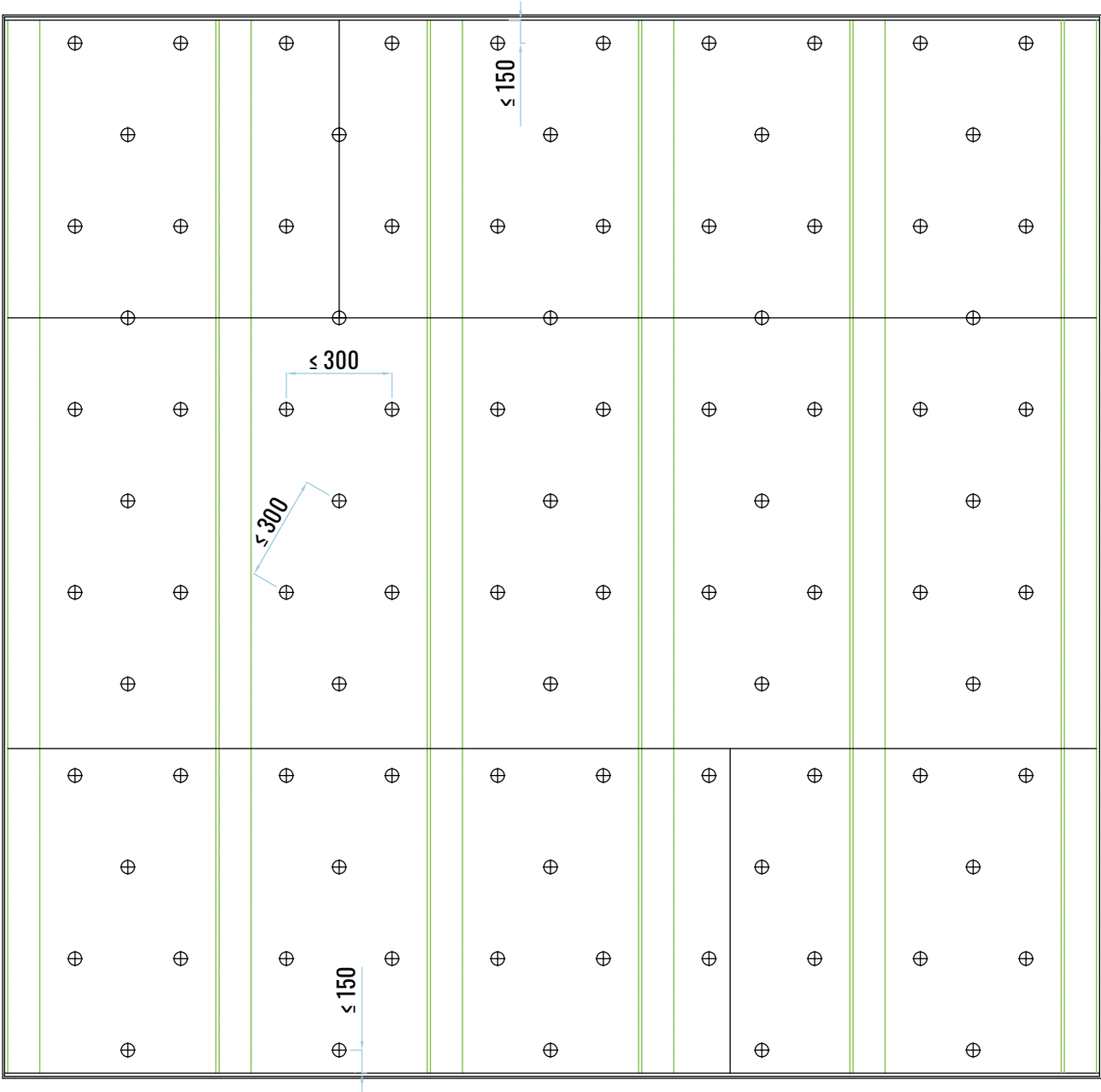
CONTACT

APPLICATION GUIDE – PIN PATTERN

D2.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

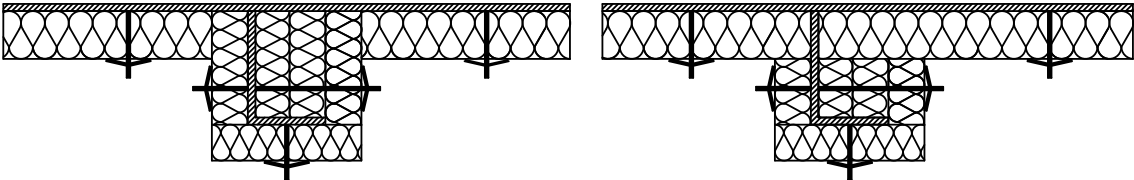
CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D2.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 30 mm

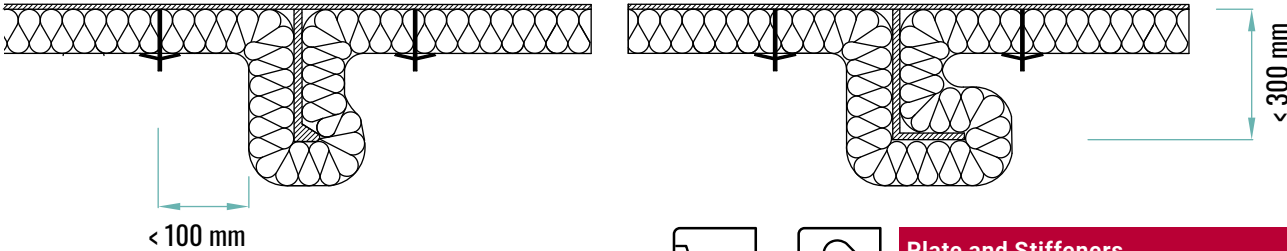


SLAB

Stiffeners

PAROC Marine Navis 60 th. 30 mm

2)



< 100 mm

< 300 mm



1 PRODUCTS
PER SOLUTION

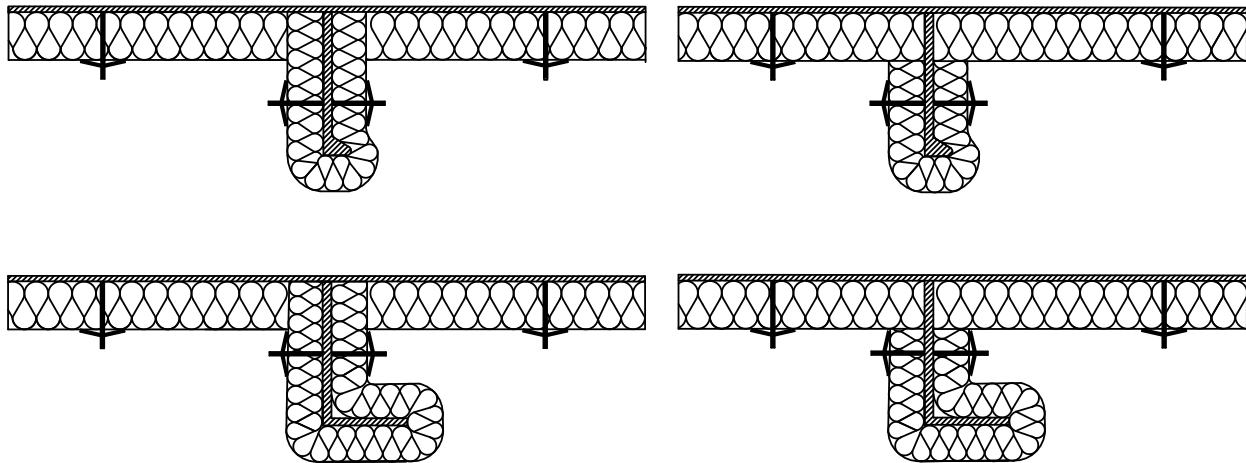


MATS

Plate and Stiffeners

PAROC Marine Navis 60 th. 30 mm

3)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 30 mm



MATS

Stiffeners

PAROC Marine Navis 60 th. 30 mm

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

D2.1



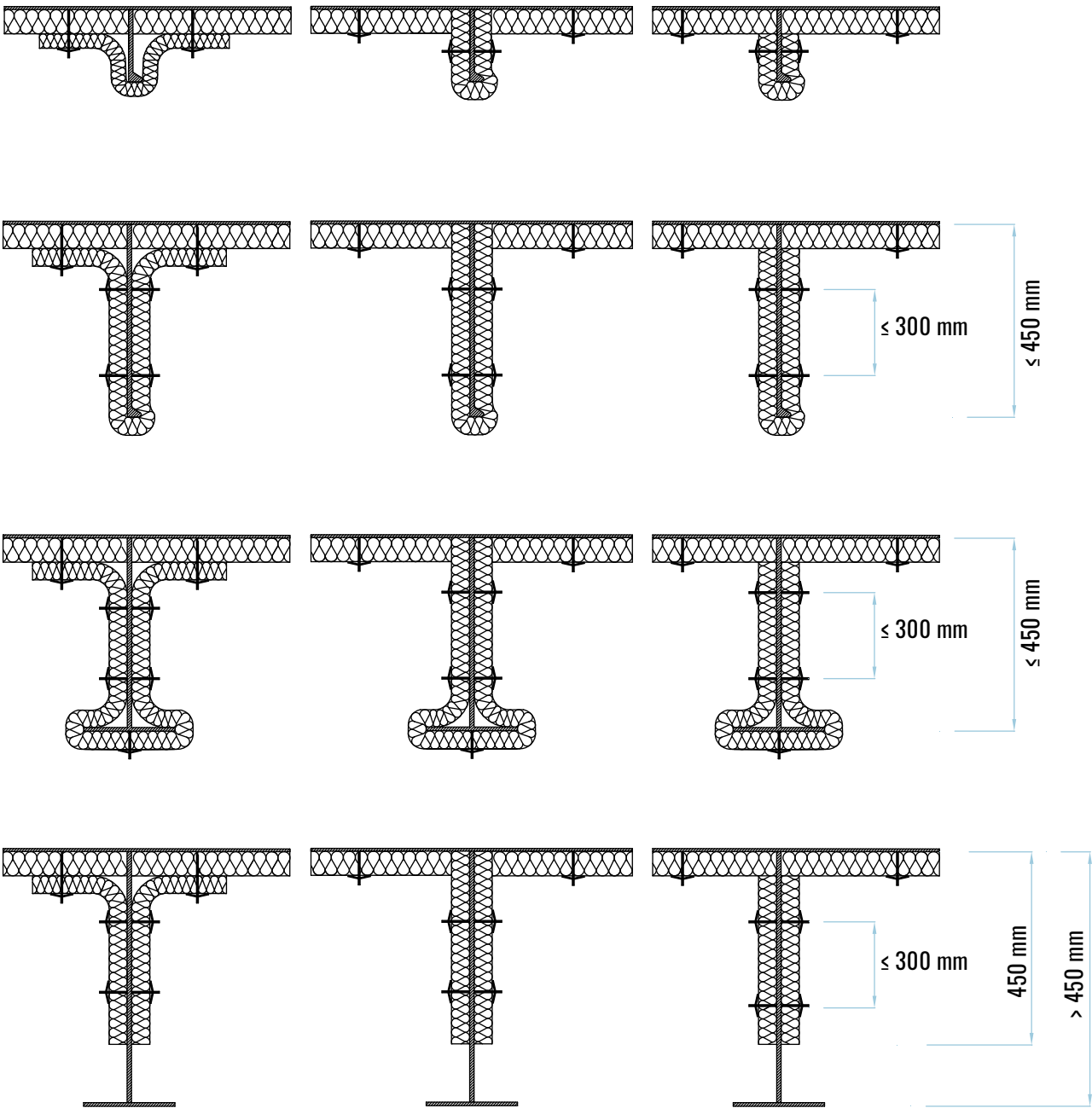
FAST
INSTALLATION



MATS

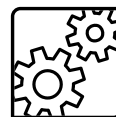
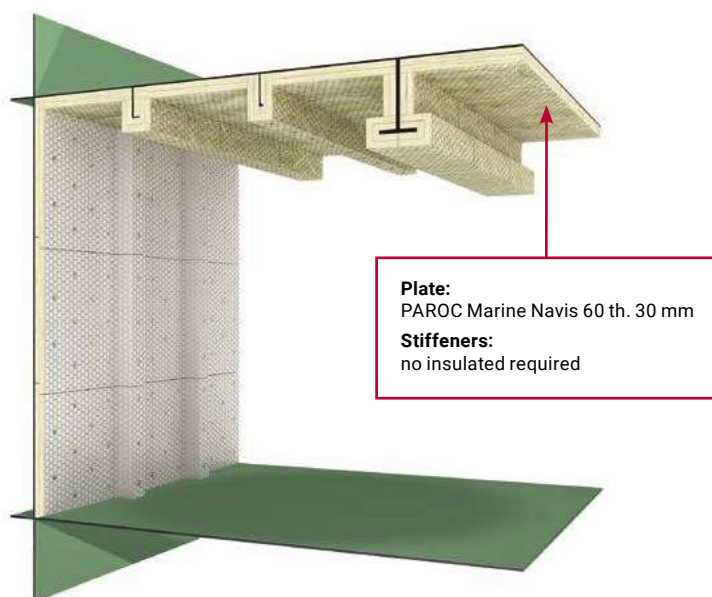
1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

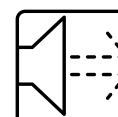
A15 STEEL DECK – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

D3.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**1 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A15

45 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners
	NOT REQUIRED

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D3.1	A15	60/30	0/0	1,8 / 0	45 (-1,-5)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

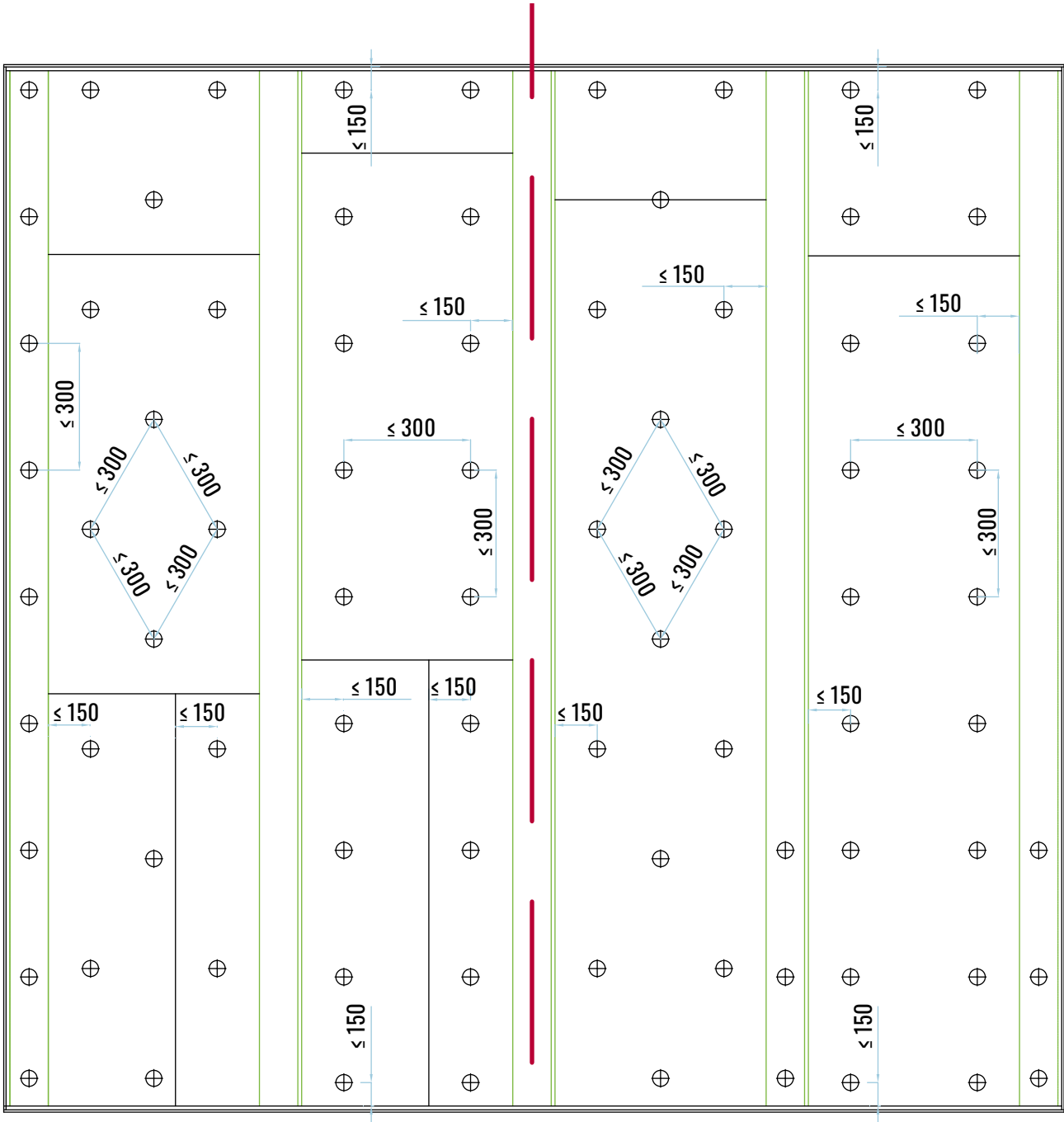
D3.1



SLABS



MATS & WIRED MATS



Pins: $\varnothing$ 2,7-5 mm
Washers: $\varnothing \geq 30$ mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

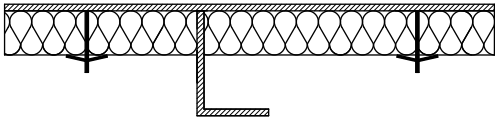
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – INSULATION

D3.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

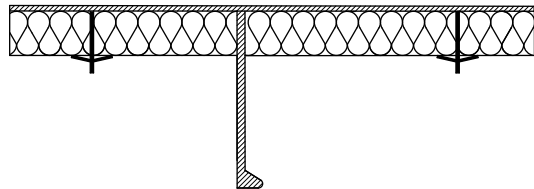


SLAB



MATS

Plate
PAROC Marine Navis 60 th. 30 mm

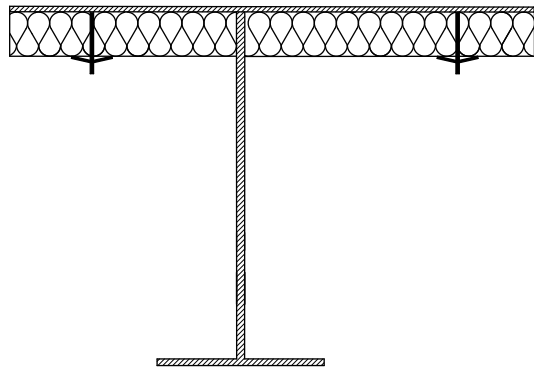


SLAB



MATS

Plate
PAROC Marine Navis 60 th. 30 mm



SLAB



MATS

Plate
PAROC Marine Navis 60 th. 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

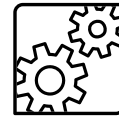
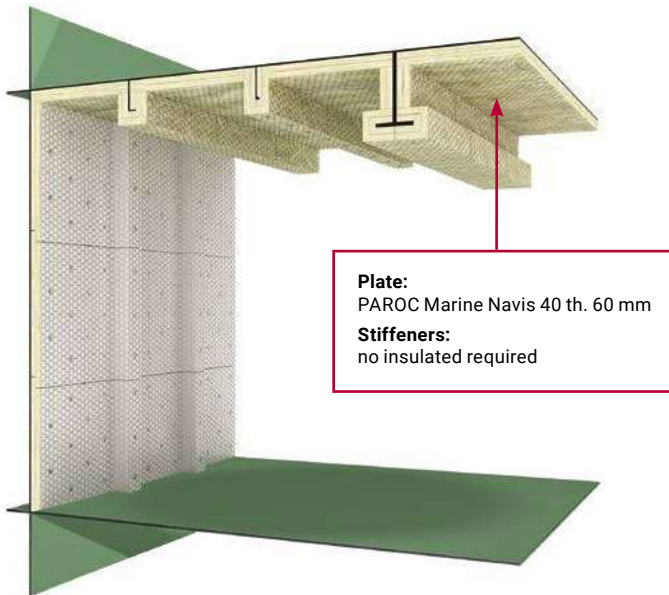
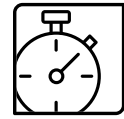
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

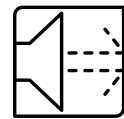
CONTACT

A15 STEEL DECK – PAROC MARINE NAVIS 40 kg/m³ SOLUTION

D3.2

**EASY
SYSTEM**

**FAST
INSTALLATION**

**1 PRODUCTS
FOR SOLUTION**

 λ 0,034 W/mK

A15

XX dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 40	40	0,034

Plate	Stiffeners
	NOT REQUIRED

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D3.2	A15	40/60	0/0	2,4 / 0	

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

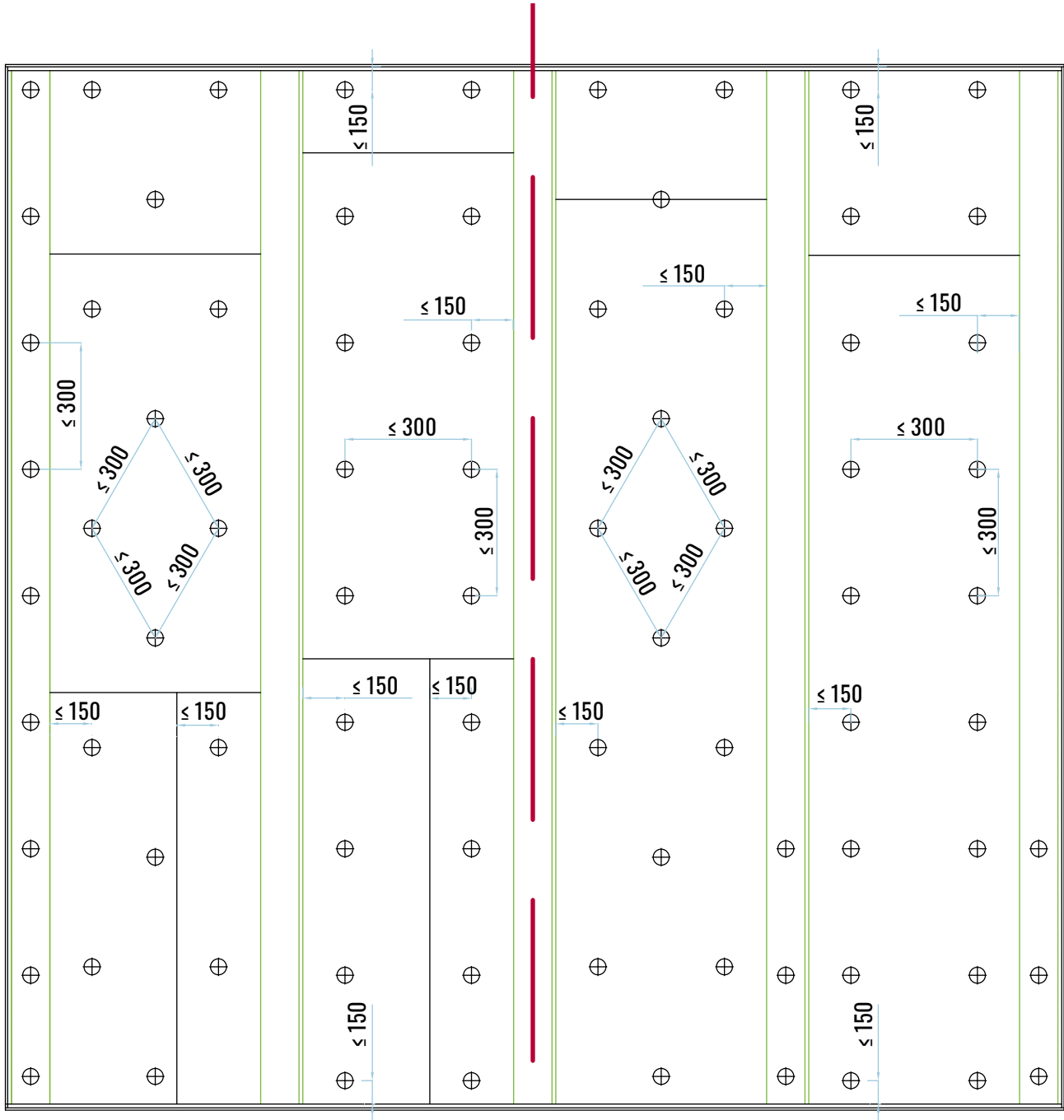
D3.2



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

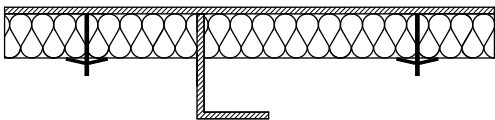
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – INSULATION

D3.2

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

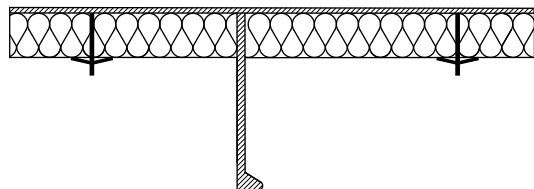


SLAB



MATS

Plate
PAROC Marine Navis 40 th. 60 mm

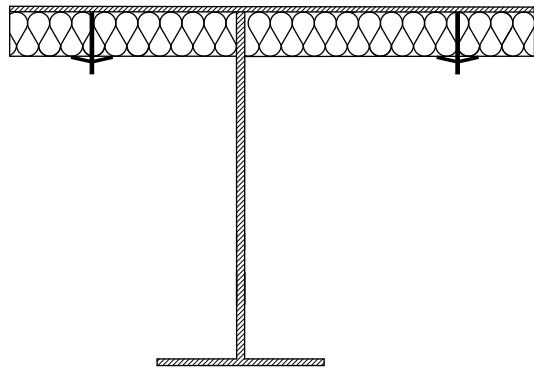


SLAB



MATS

Plate
PAROC Marine Navis 40 th. 60 mm



SLAB



MATS

Plate
PAROC Marine Navis 40 th. 60 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

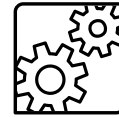
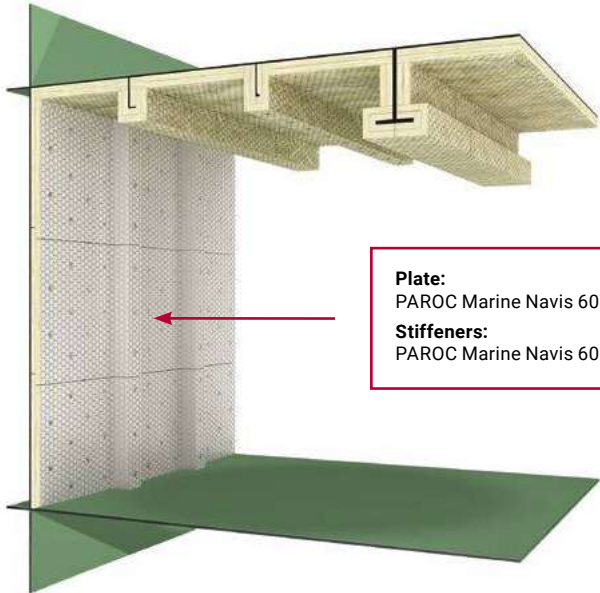
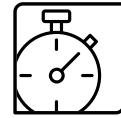
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

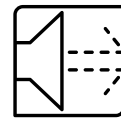
CONTACT

A60 STEEL BULKHEAD – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

B1.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**2 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A60

47 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners
	

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
B1.1	A60	60/60	60/30	3,6 / 1,8	47 (-1,-6)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

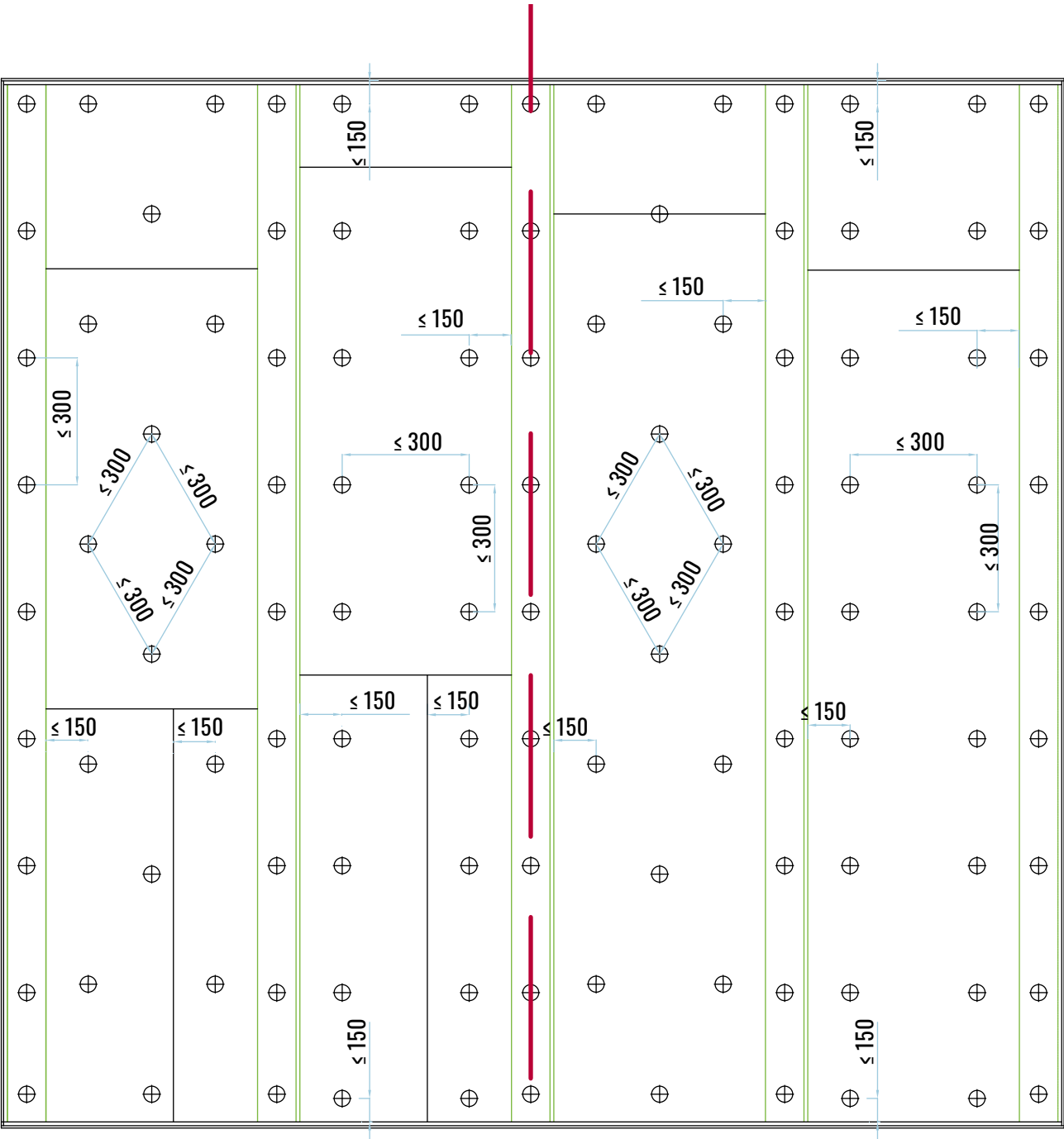
B1.1



SLABS



MATS & WIRED MATS



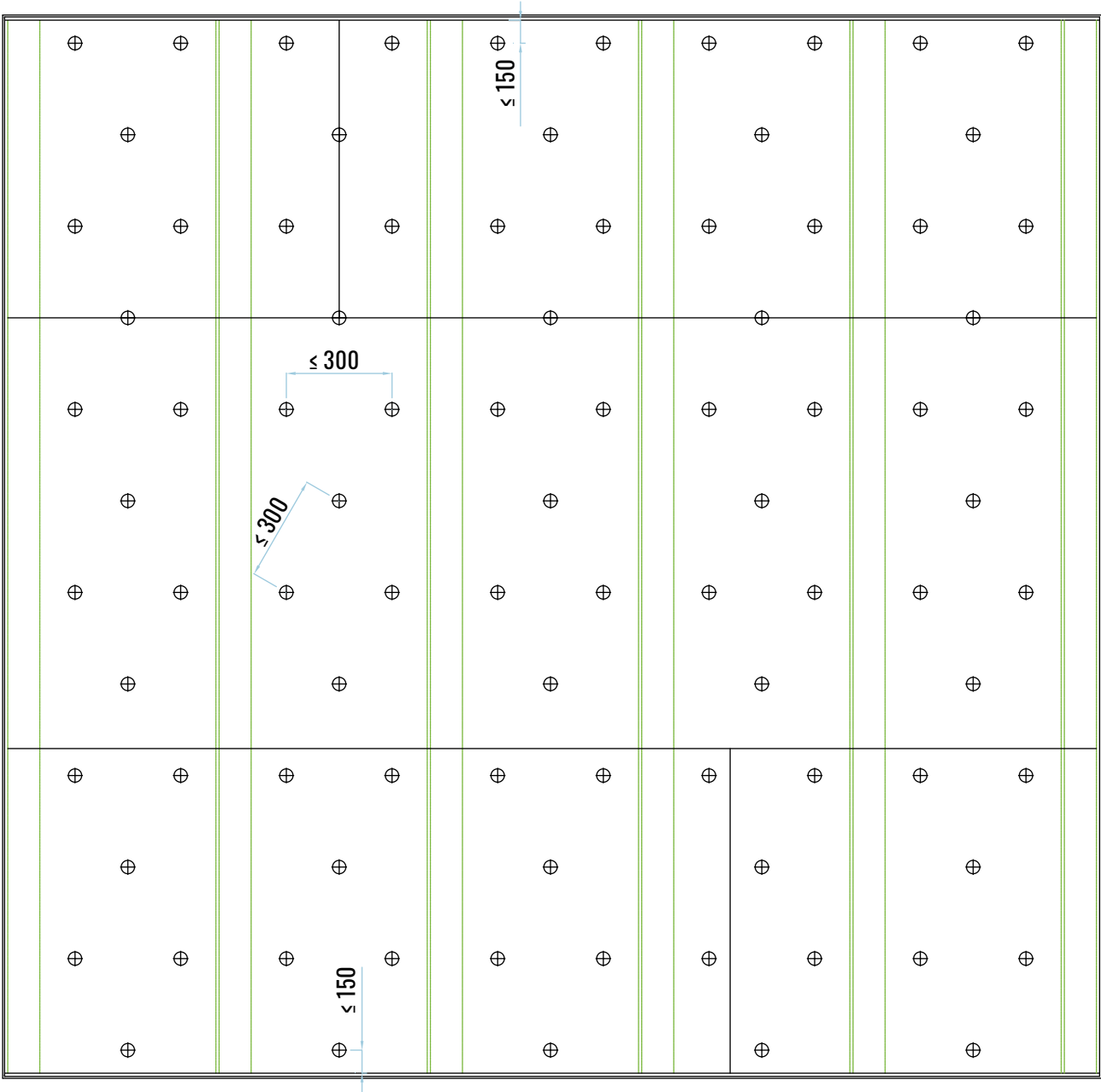
Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – PIN PATTERN

B1.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

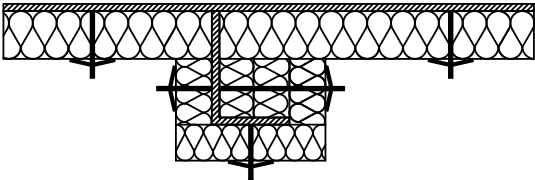
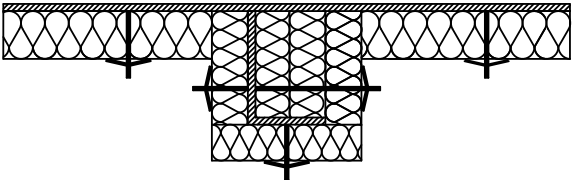
CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B1.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 60 mm

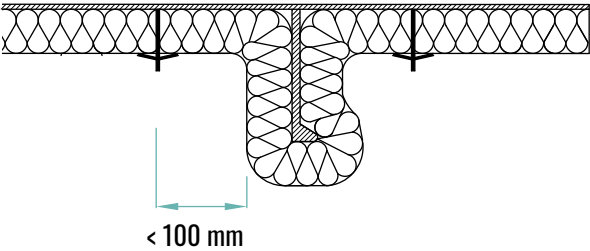


SLAB

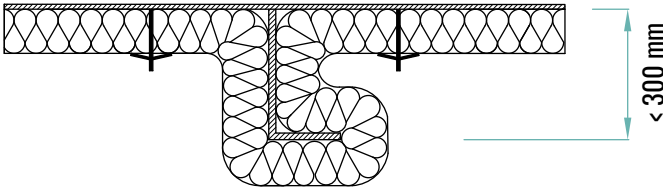
Stiffeners

PAROC Marine Navis 60 th. 30 mm

2)



< 100 mm



< 300 mm



1 PRODUCTS
PER SOLUTION

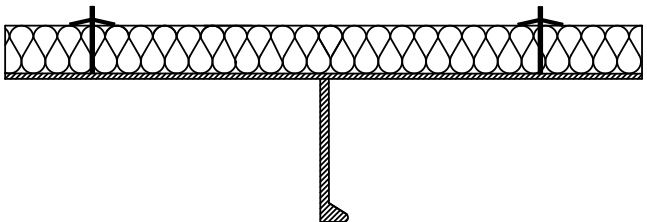
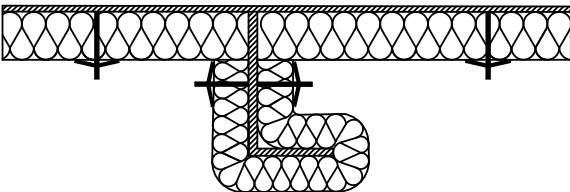
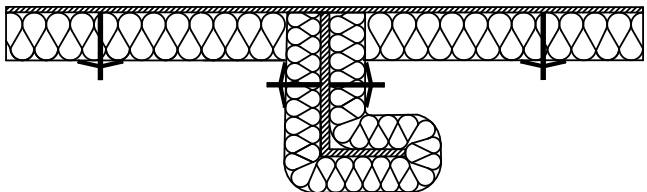
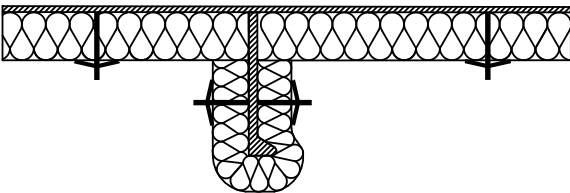
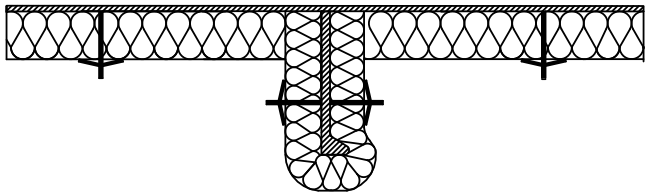


MATS

Plate and Stiffeners

PAROC Marine Navis 60 th. 60 mm

3)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 60 mm



MATS

Stiffeners

PAROC Marine Navis 60 th. 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

B1.1



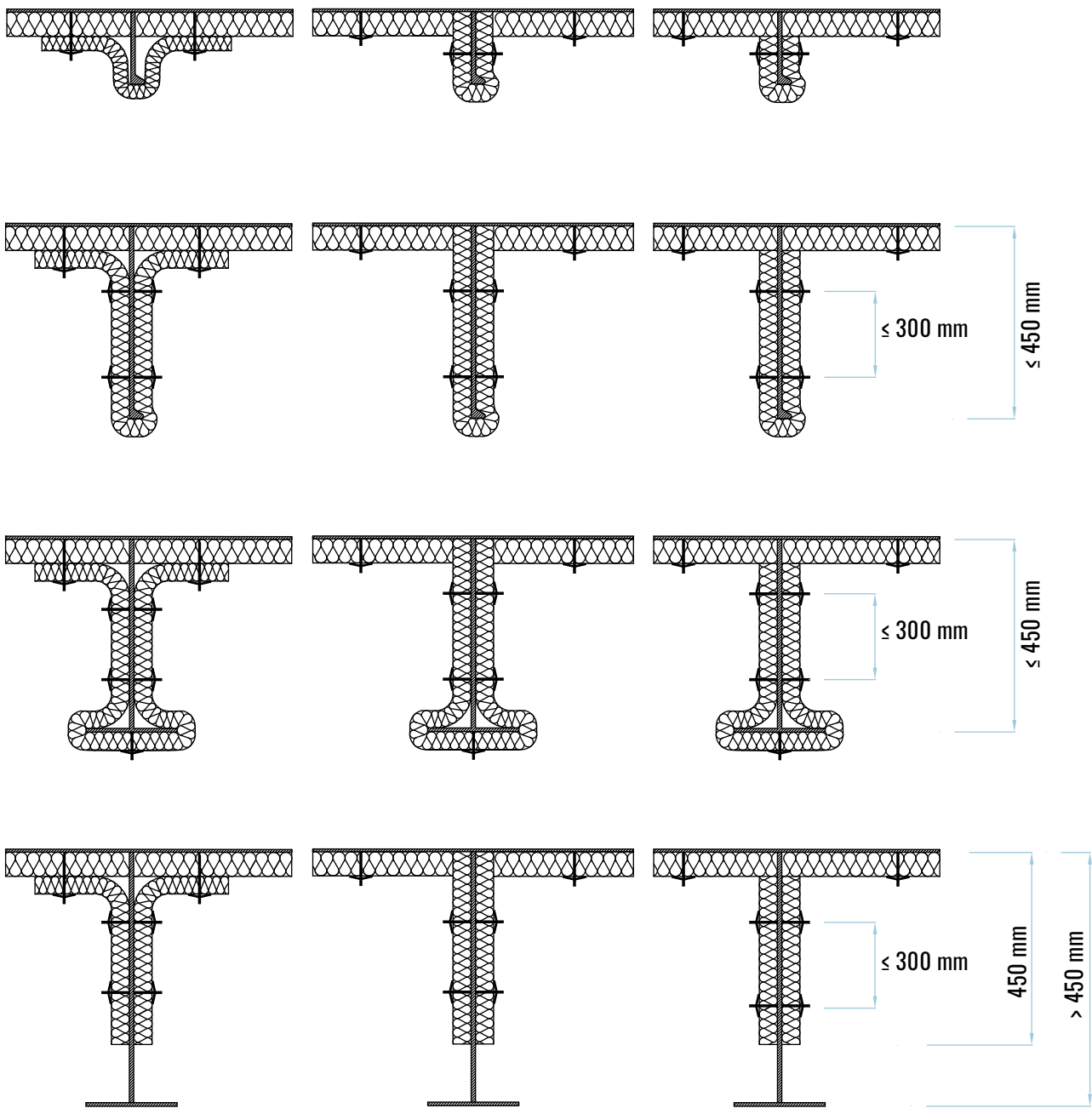
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

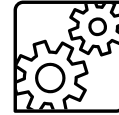
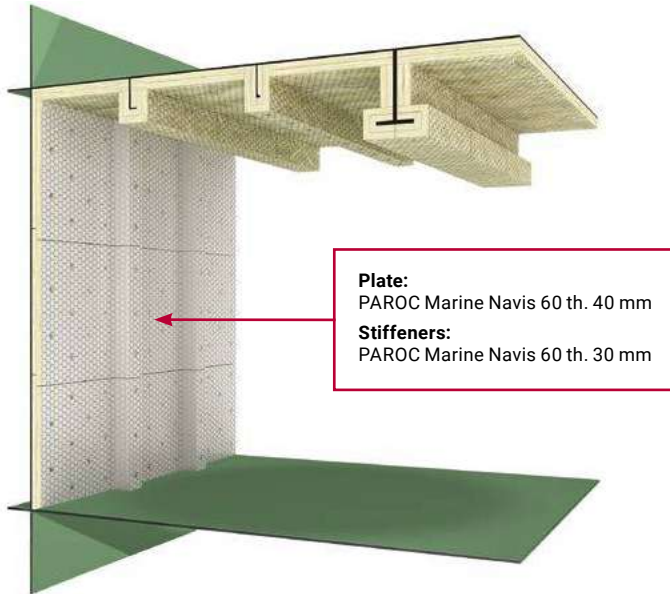
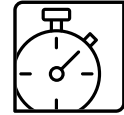
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

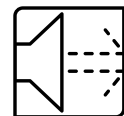
CONTACT

A30 STEEL BULKHEAD – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

B2.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**2 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A30

47 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _v)
B2.1	A30	60/40	60/30	2,4 / 1,8	47 (-2,-6)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

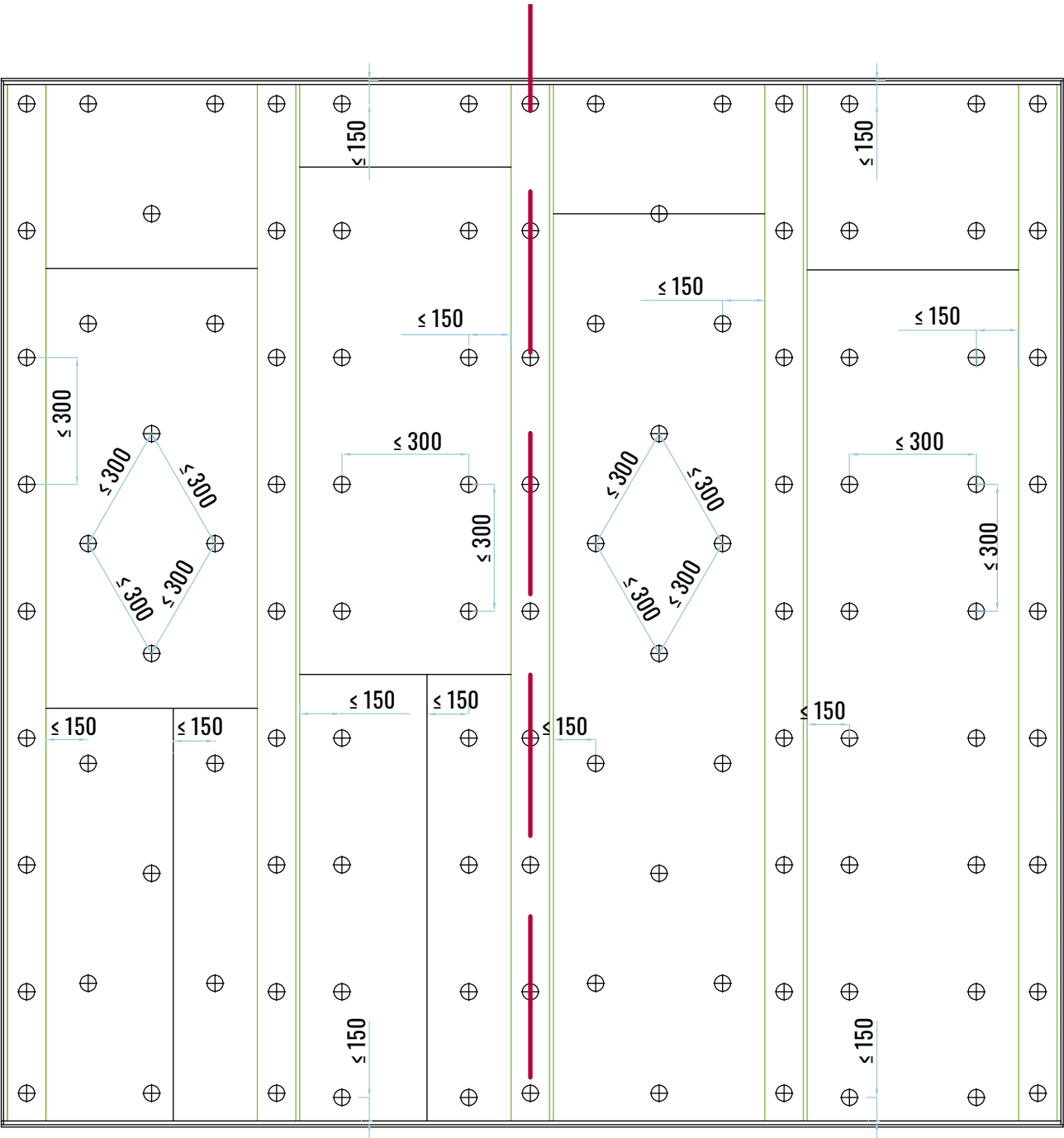
B2.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

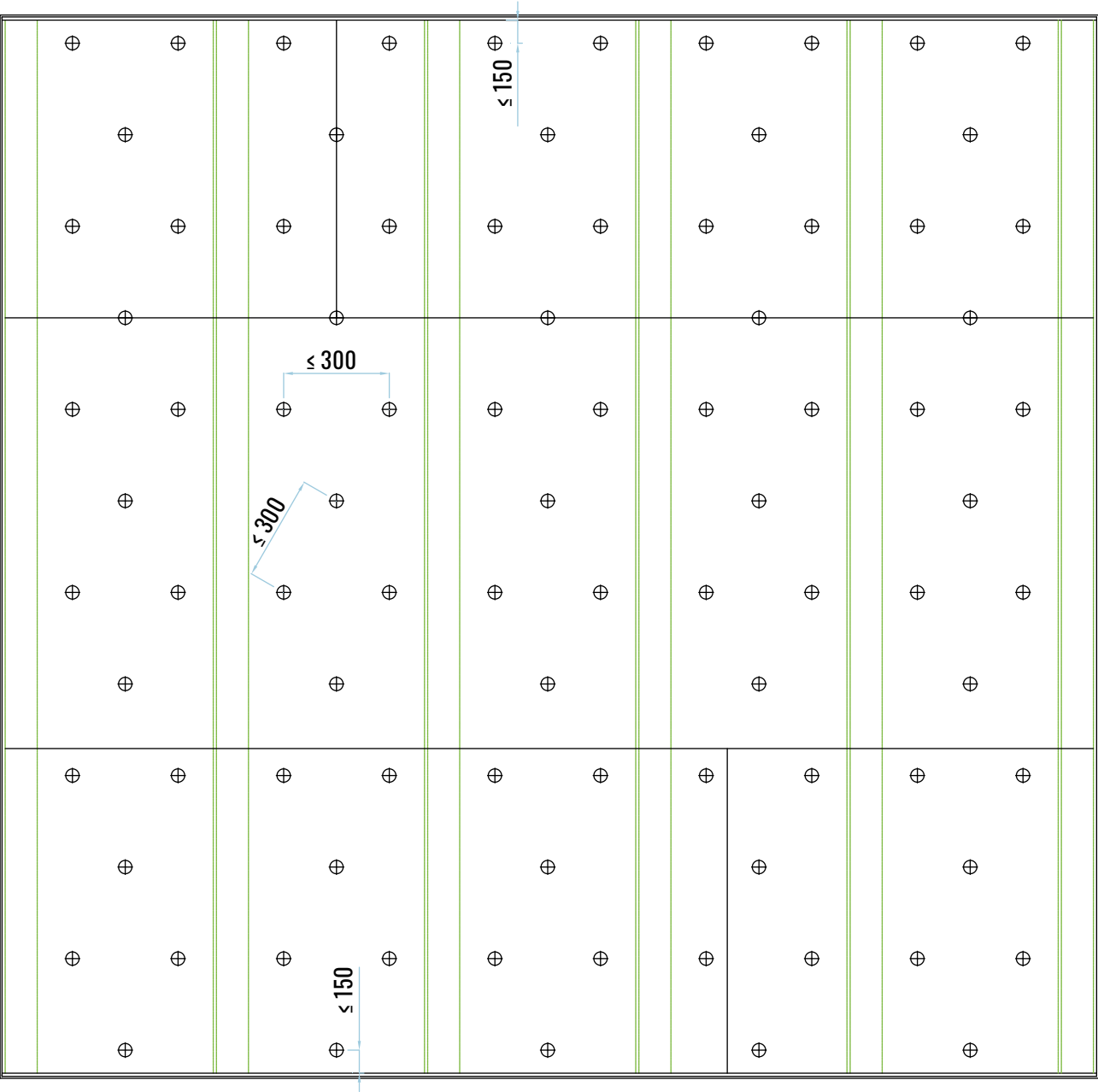
CONTACT

APPLICATION GUIDE – PIN PATTERN

B2.1



MATS & WIRED MATS



ROLLS DIRECTION

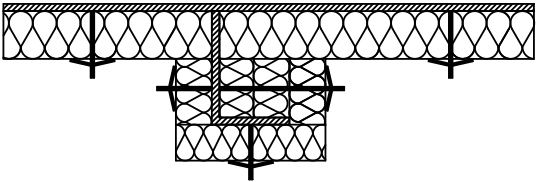
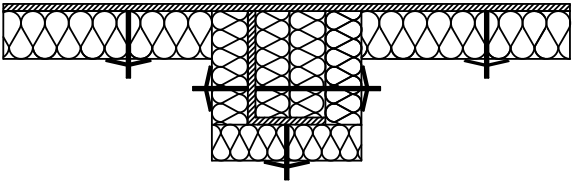
Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B2.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 40 mm

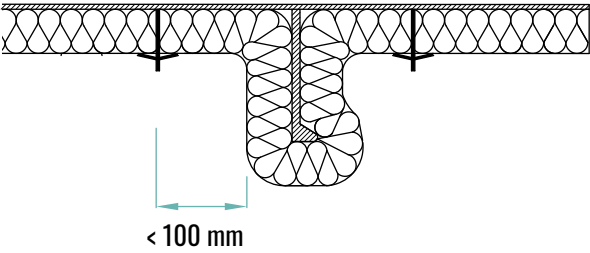


SLAB

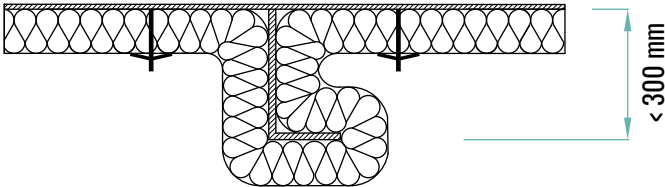
Stiffeners

PAROC Marine Navis 60 th. 30 mm

2)



< 100 mm



< 300 mm



1 PRODUCTS
PER SOLUTION

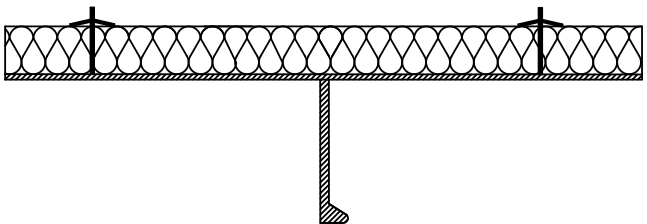
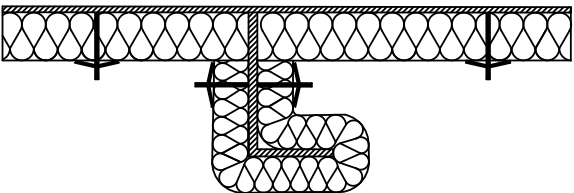
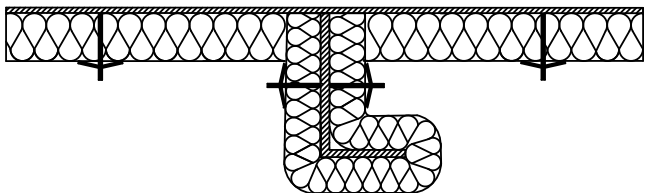
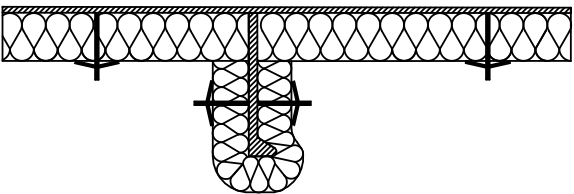
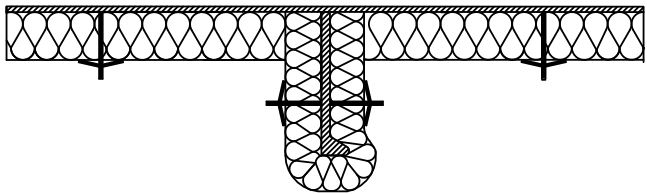


MATS

Plate and Stiffeners

PAROC Marine Navis 60 th. 40 mm

3)



SLAB



MATS

Plate

PAROC Marine Navis 60 th. 40 mm



MATS

Stiffeners

PAROC Marine Navis 60 th. 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

B2.1



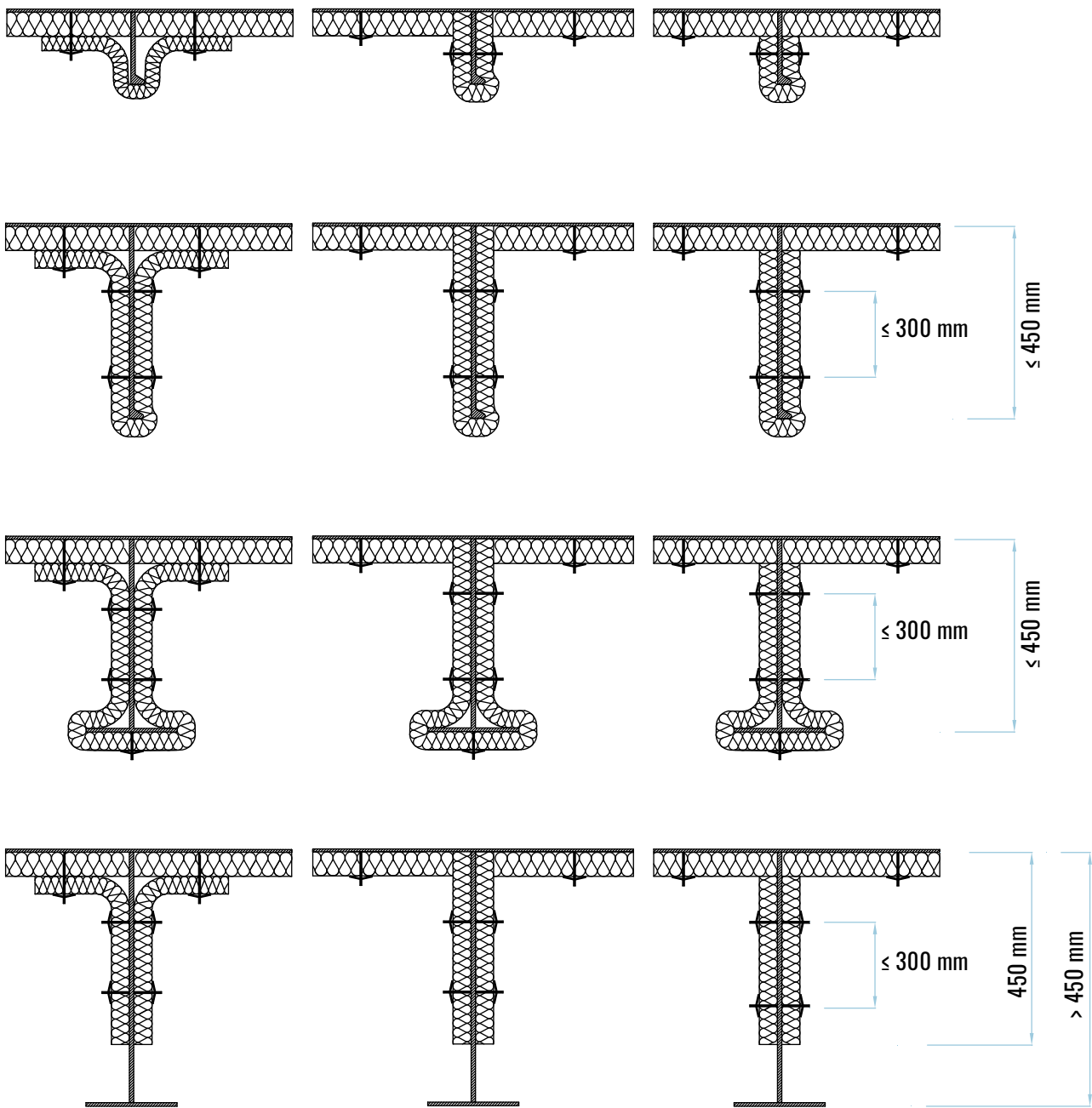
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

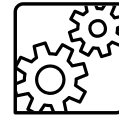
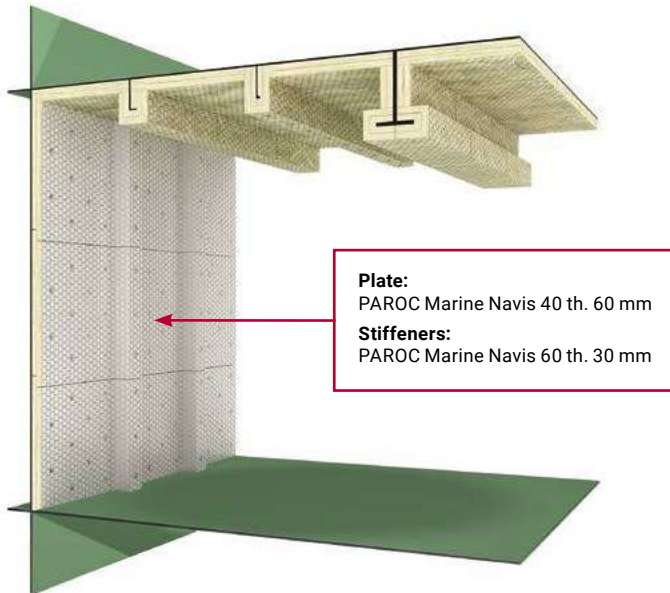
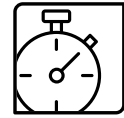
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

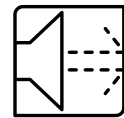
CONTACT

A30 STEEL BULKHEAD – PAROC MARINE NAVIS 40 kg/m³ SOLUTION

B2.2

**EASY
SYSTEM**

**FAST
INSTALLATION**

**2 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A30

47 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 40	40	0,034
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _v)
B2.2	A30	40/60	60/30	2,4 / 1,8	47 (-2,-6)

APPLICATION GUIDE – PIN PATTERN

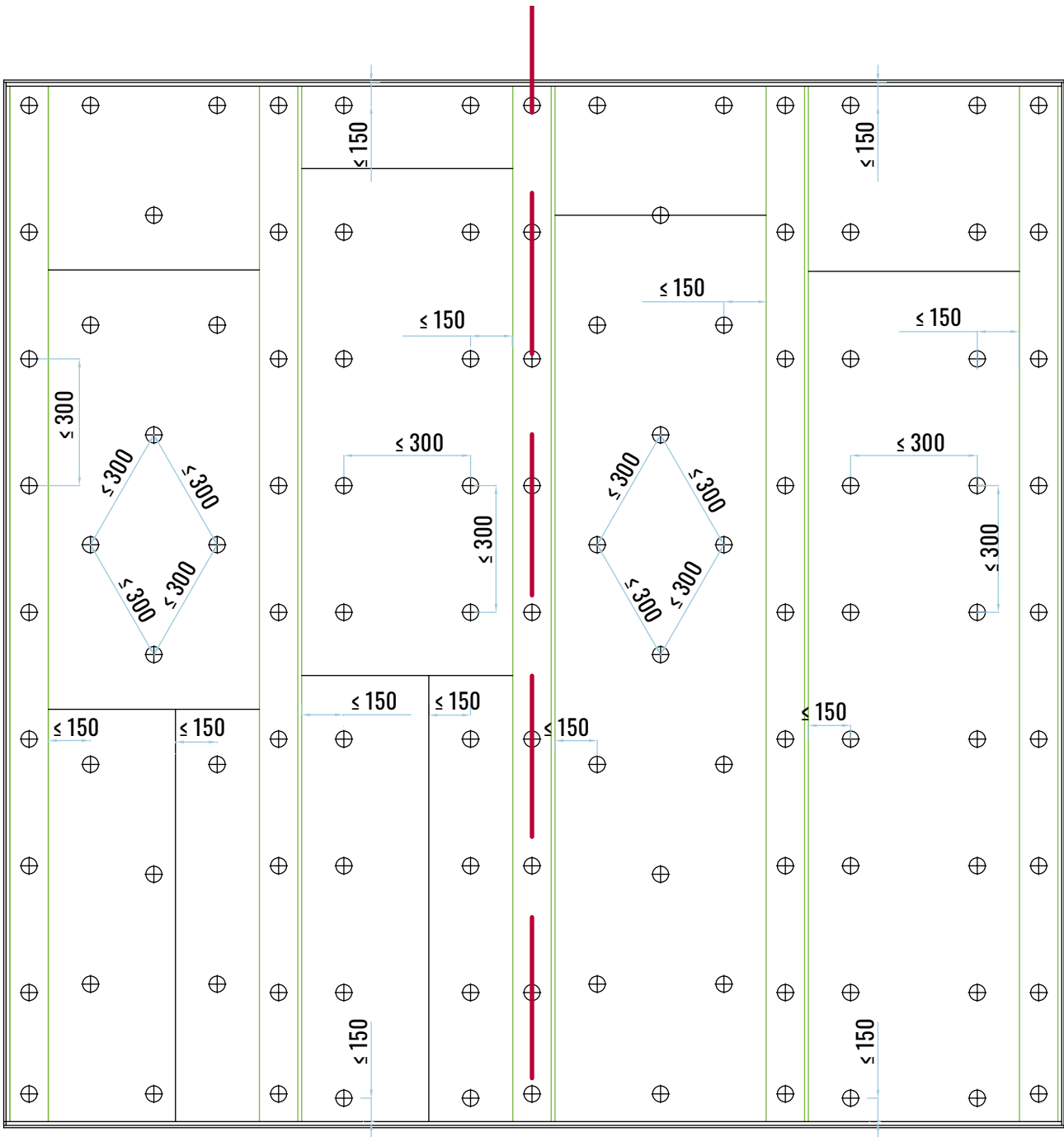
B2.2



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

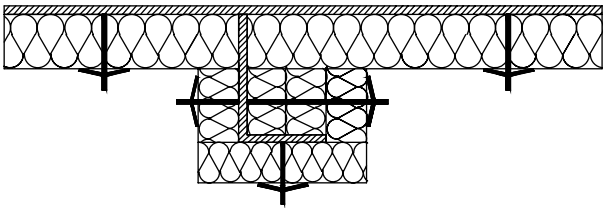
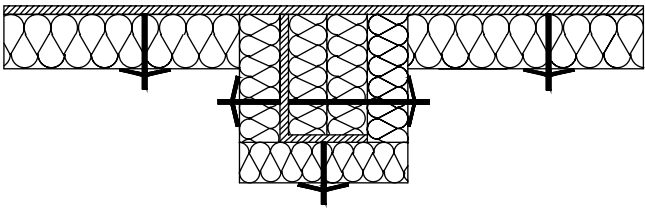
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B2.2

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS




SLAB

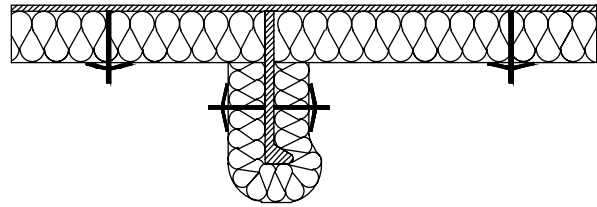
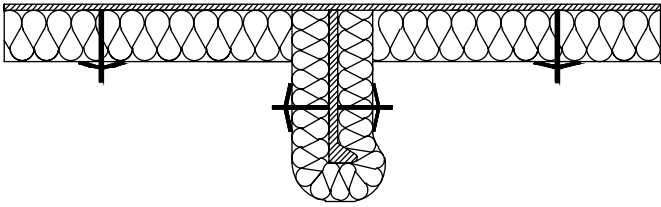

MATS

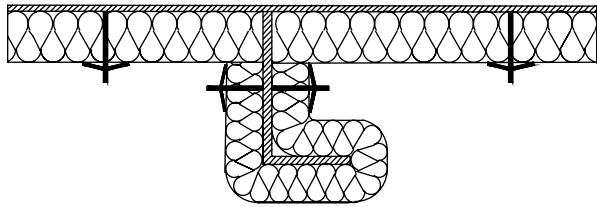
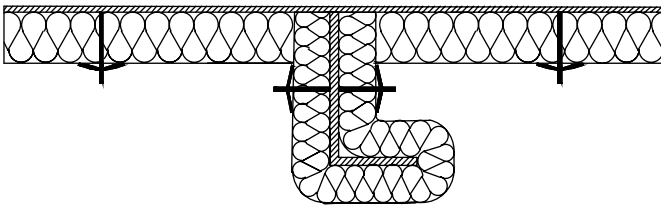
Plate

PAROC Marine Navis 60 th. 40 mm

Stiffeners

PAROC Marine Navis 60 th. 30 mm






SLAB


MATS

Plate

PAROC Marine Navis 60 th. 40 mm

Stiffeners

PAROC Marine Navis 60 th. 30 mm


SLAB


MATS

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

B2.2



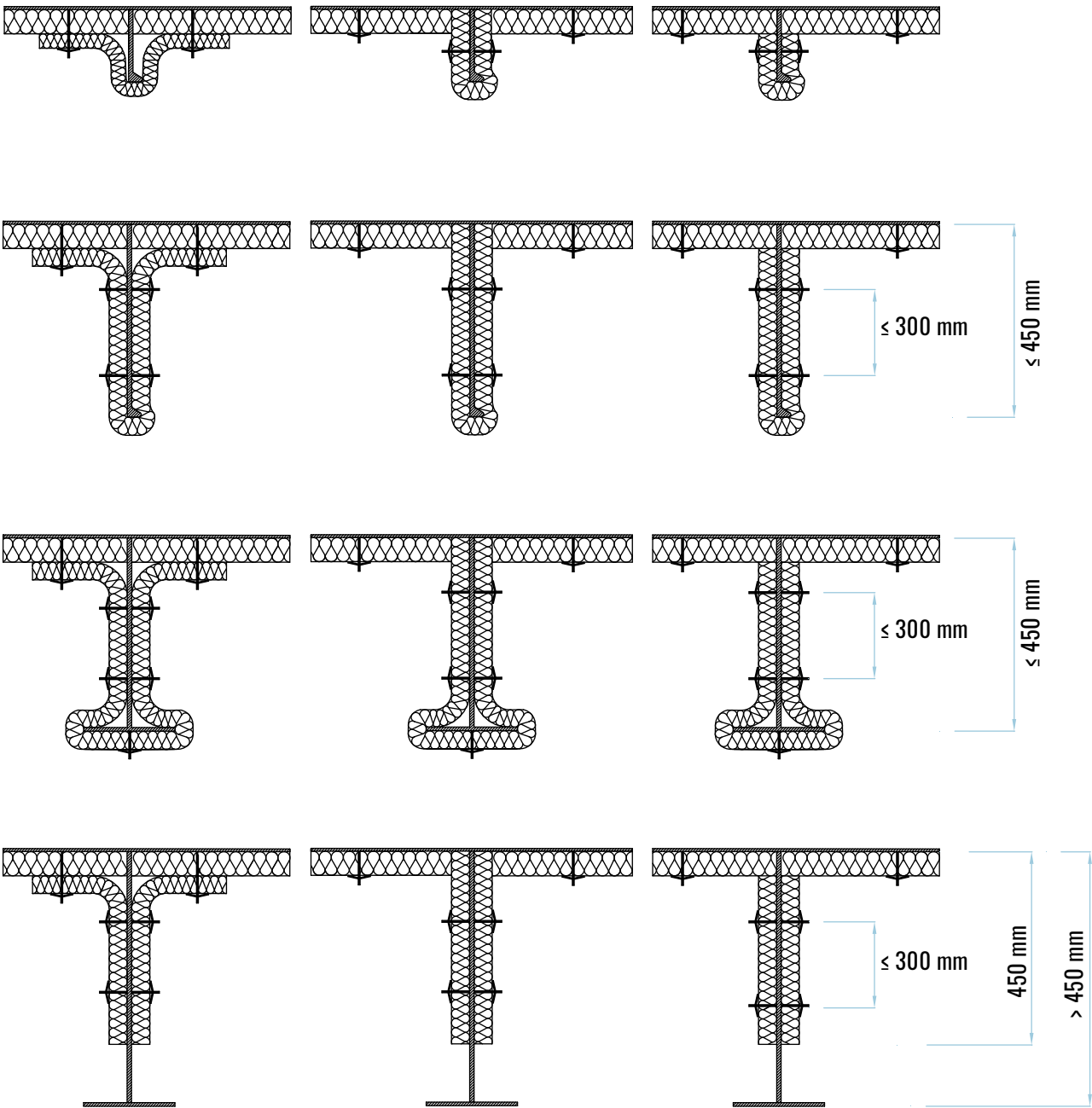
FAST
INSTALLATION



MATS

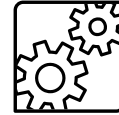
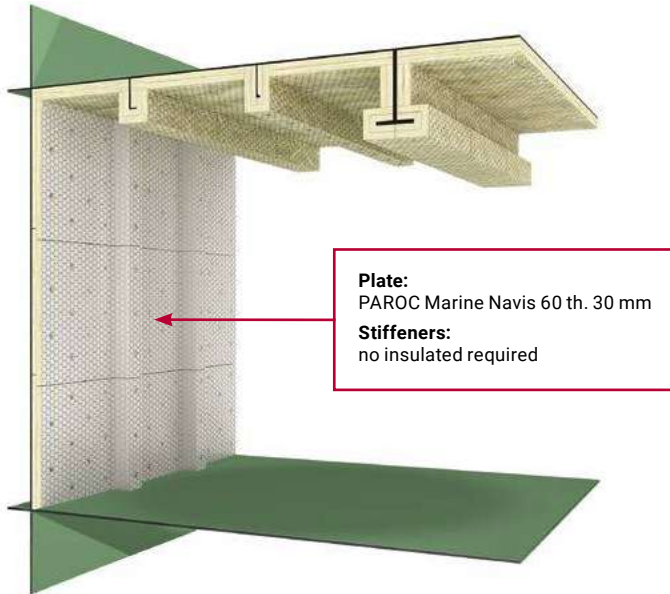
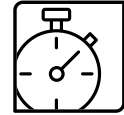
1 products for all stiffeners

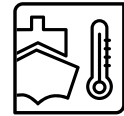
PAROC Marine Navis Mat 60 th. 30 mm

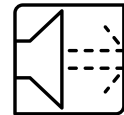


According to MSC/Circ.1120 where stiffeners are > 450 mm

A15 STEEL BULKHEAD – PAROC MARINE NAVIS 60 kg/m³ SOLUTION

B3.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**1 PRODUCTS
FOR SOLUTION**

 λ 0,032 W/mK

A15

45 dB

PAROC MARINE NAVIS CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis 60	60	0,032

Plate	Stiffeners
	NOT REQUIRED

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
B3.1	A15	60/30	0/0	1,8 / 0	45 (-1,-5)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – PIN PATTERN

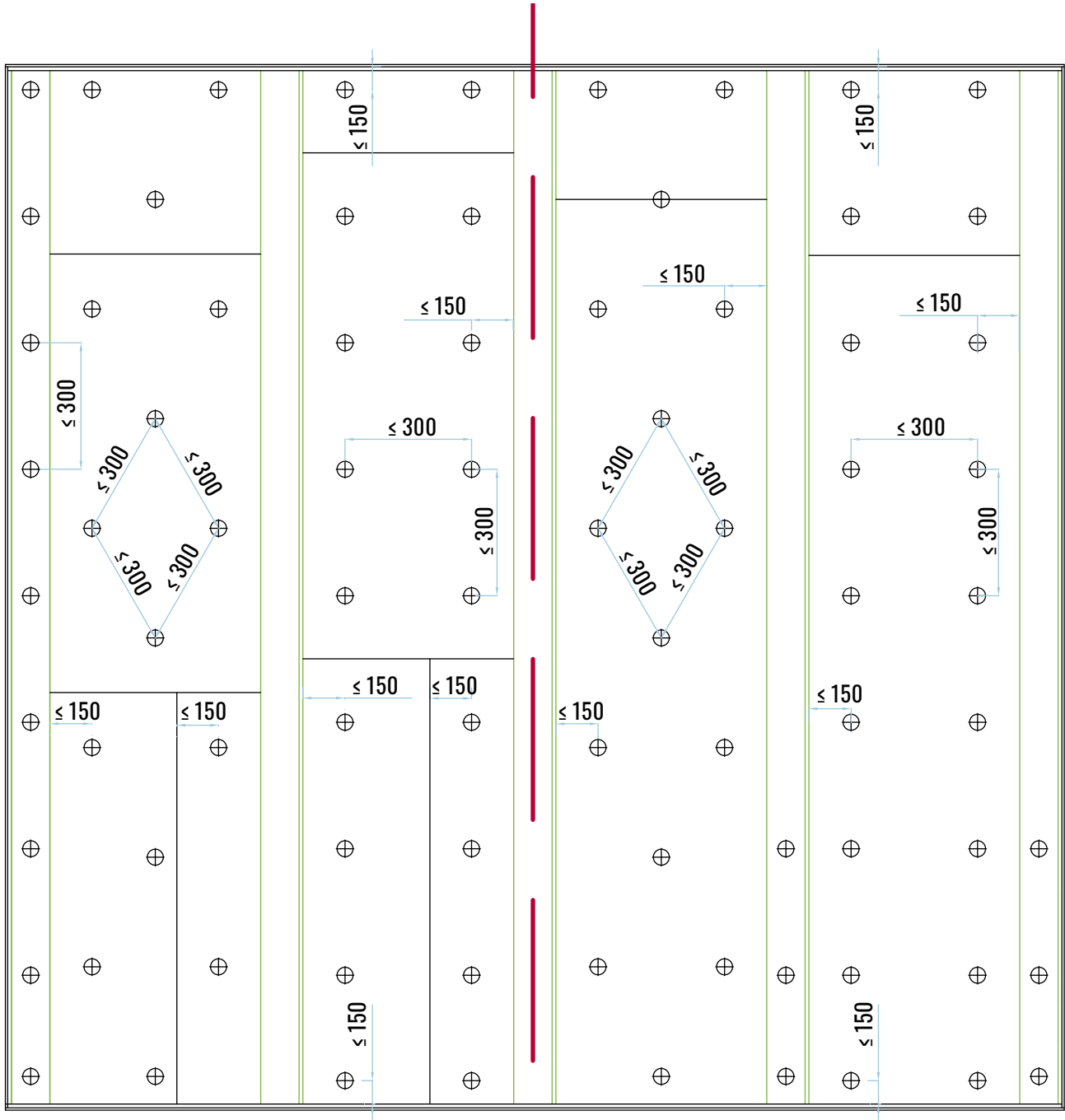
B3.1



SLABS



MATS & WIRED MATS



Pins: $\varnothing$ 2,7-5 mm
Washers: $\varnothing \geq 30$ mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

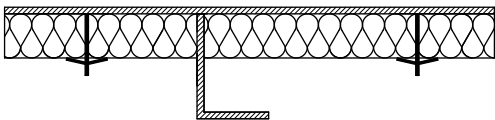
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – INSULATION

B3.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS



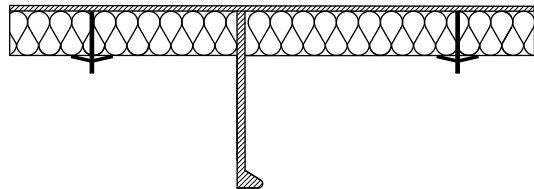
SLAB



MATS

Plate

PAROC Marine Navis 60 th. 30 mm



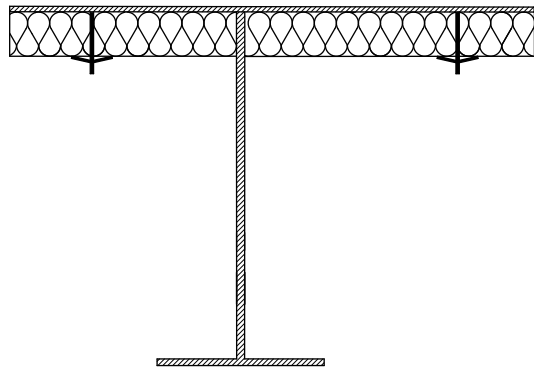
SLAB



MATS

Plate

PAROC Marine Navis 60 th. 30 mm



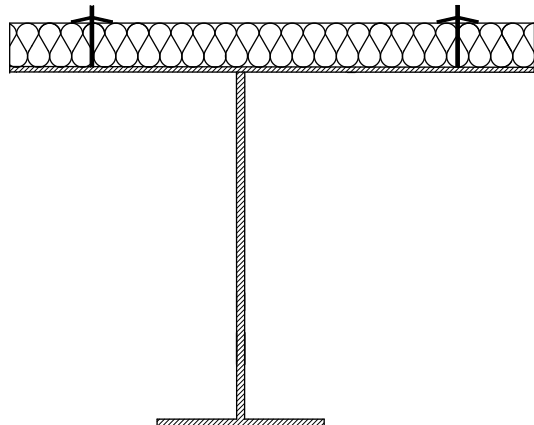
SLAB



MATS

Plate

PAROC Marine Navis 60 th. 30 mm



PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

PAROC MARINE 100 kg/m³ SOLUTIONS – STEEL DECK & BULKHEAD



EASY
SYSTEM



LESS TOTAL
PRODUCTS
FOR A PROJECT



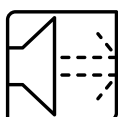
MATS



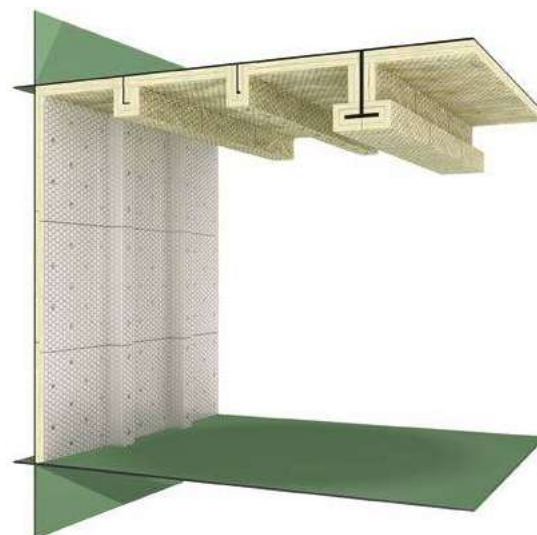
SLAB



FIREPROOFING
PERFORMANCE



ACOUSTICS
PERFORMANCE



PAROC MARINE 100 kg/m³ CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035
PAROC Marine Mat /Wired Mat 100	100	0,039

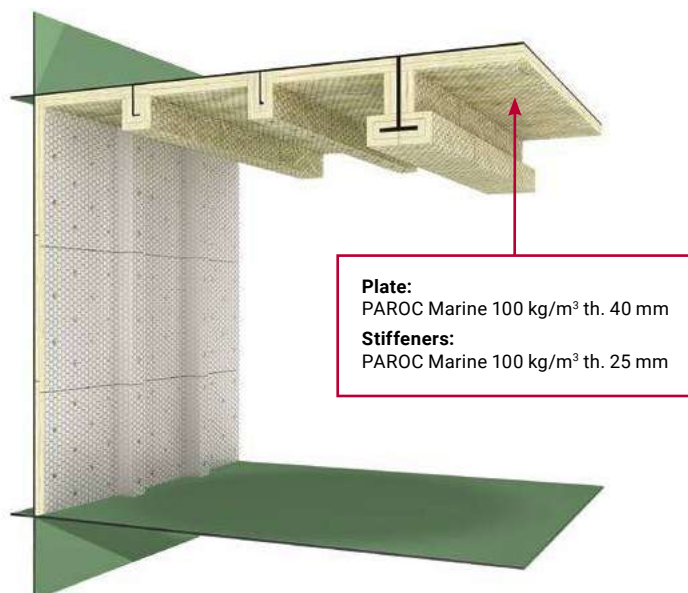
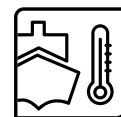
DECK

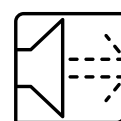
n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _p)
D4.1	A60	100/40	100/25	4,0 / 2,5	47 (-2,-6)
D5.1	A30	100/25	100/25	2,5 / 2,5	45 (-1,-4)

BULKHEAD

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _p)
B4.1	A60	100/60	100/25	6,0 / 2,5	49 (-1,-6)
B5.1	A30	100/25	100/25	4,0 / 2,5	47 (-2,-6)

A60 STEEL DECK – PAROC MARINE 100 kg/m³ SOLUTION

D4.1

**2 PRODUCTS
FOR SOLUTION**

**λ 0,035-
0,039 W/mK**

A60

47 dB

PAROC MARINE 100 kg/m³ CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035
PAROC Marine Mat /Wired Mat 100	100	0,039

Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D4.1	A60	100/40	100/25	4,0 / 2,5	47 (-2,-6)

APPLICATION GUIDE – PIN PATTERN

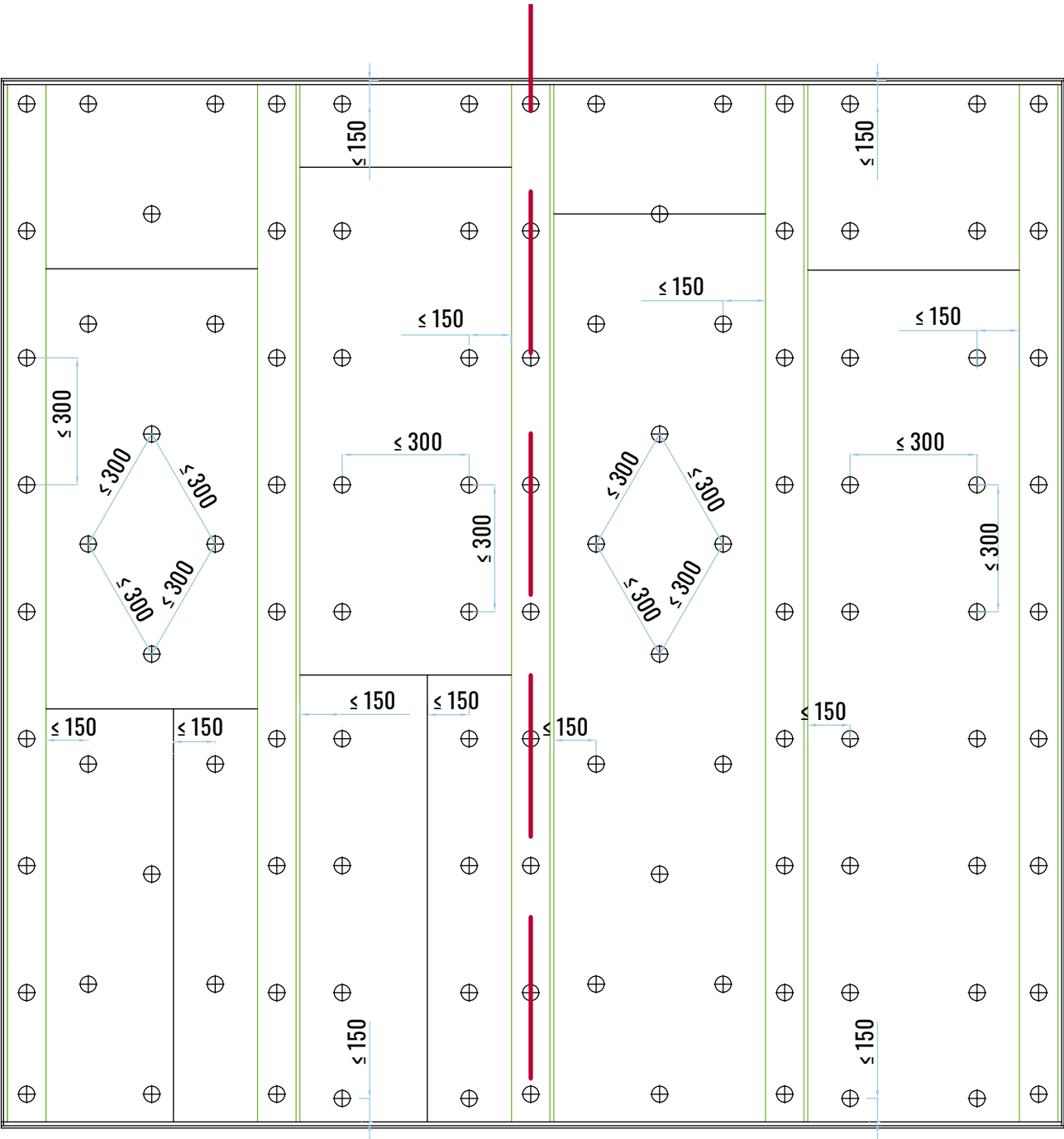
D4.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

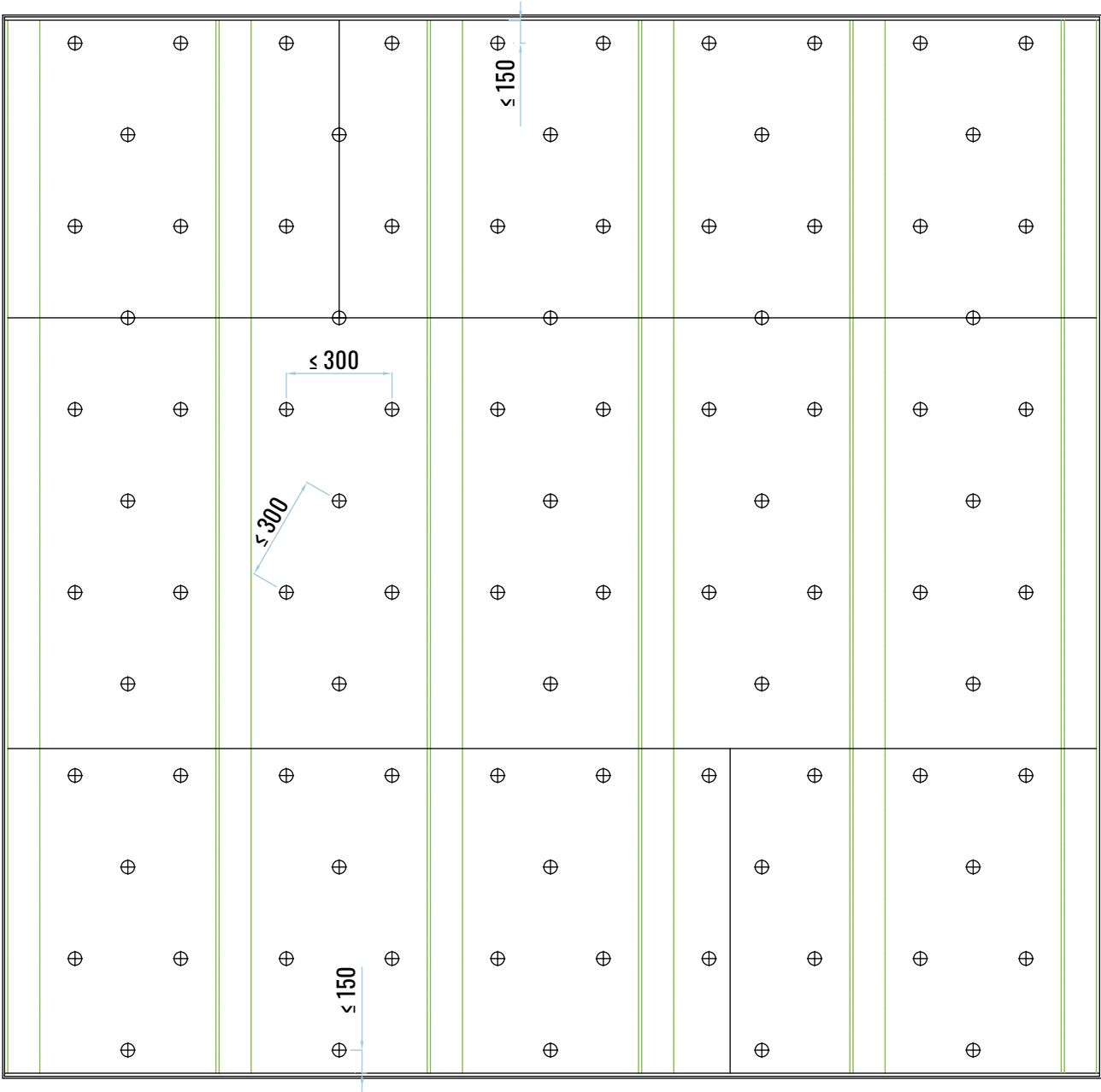
CONTACT

APPLICATION GUIDE – PIN PATTERN

D4.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

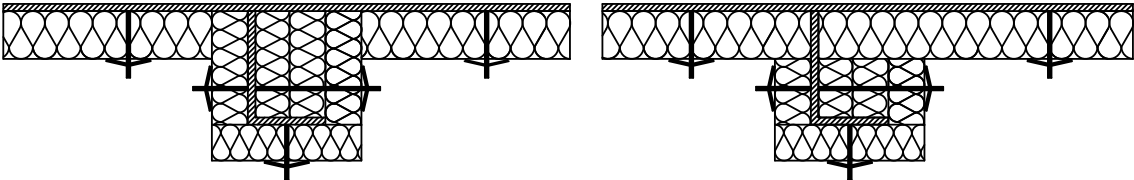
CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D4.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



Plate

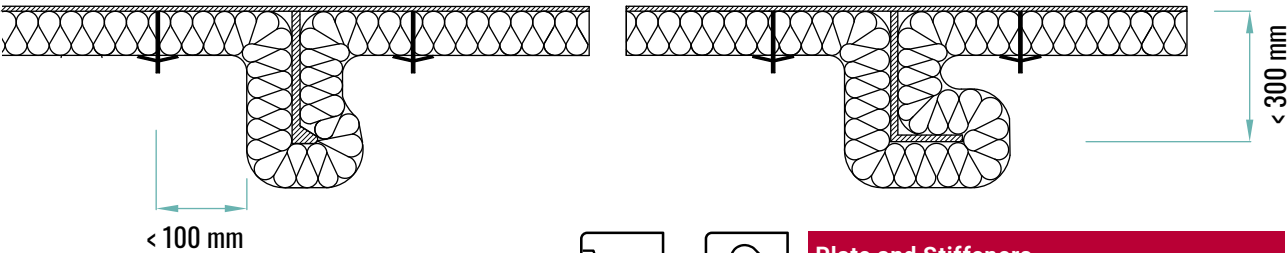
PAROC Marine Fire Slab 100 th. 40 mm or
PAROC Marine Mat/Wired Mat 100 th. 40 mm



Stiffeners

PAROC Marine Fire Slab 100
th. 25 mm

2)



1 PRODUCTS
PER SOLUTION

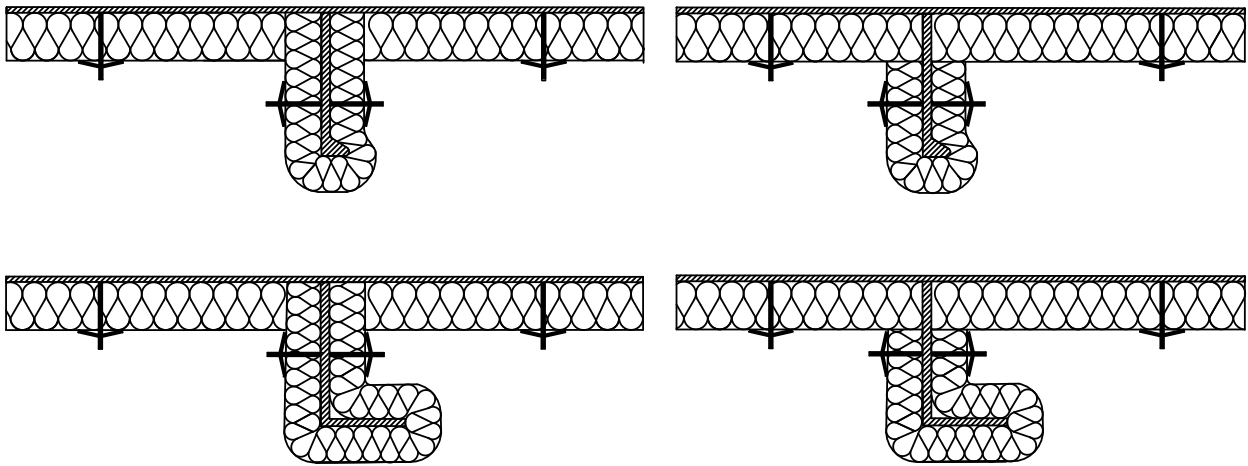


MATS

Plate and Stiffeners

PAROC Marine Mat/Wired Mat 100 th. 40 mm

3)



Plate

PAROC Marine Fire Slab 100 th. 40 mm or
PAROC Marine Mat/Wired Mat 100 th. 40 mm



Stiffeners

PAROC Marine Mat/Wired Mat
100 th. ≥ 25 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

D4.1



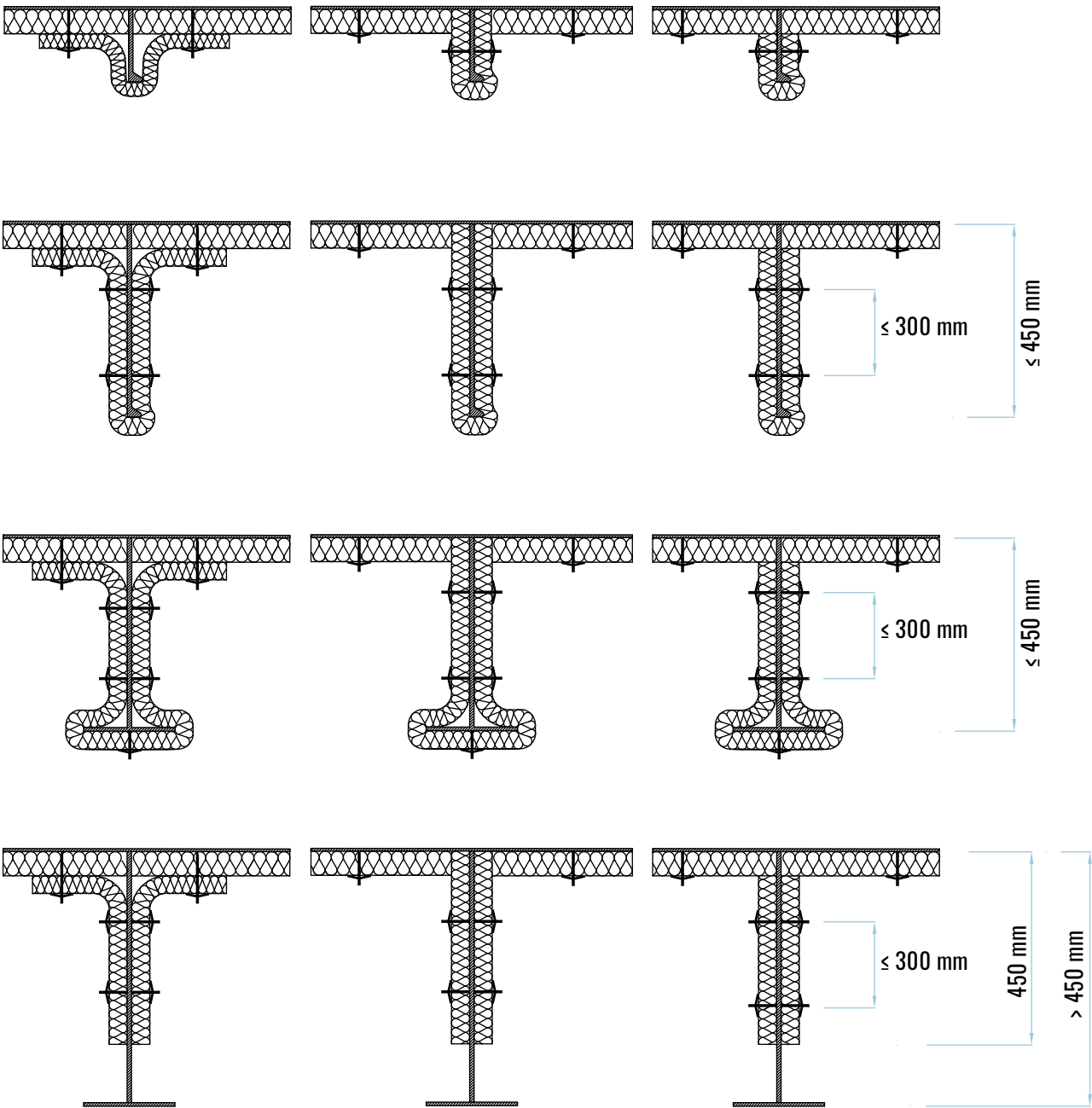
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

A30 STEEL DECK – PAROC MARINE 100 kg/m³ SOLUTION

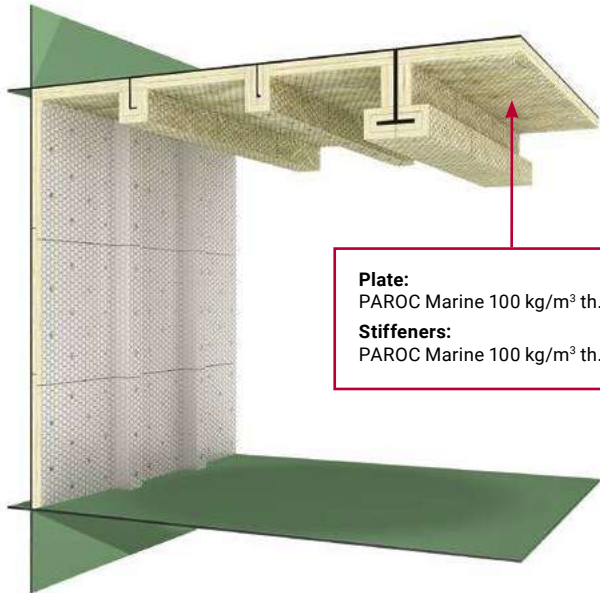
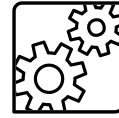
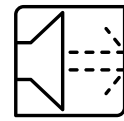
D5.1


Plate:
PAROC Marine 100 kg/m³ th. 25 mm
Stiffeners:
PAROC Marine 100 kg/m³ th. 25 mm


**EASY
SYSTEM**

 λ 0,035-
0,039 W/mK

**1 PRODUCTS
FOR SOLUTION**

45 dB

A30

PAROC MARINE 100 kg/m³ CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035
PAROC Marine Mat /Wired Mat 100	100	0,039

Plate	Stiffeners

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D5.1	A30	100/25	100/25	2,5 / 2,5	45 (-1,-4)

APPLICATION GUIDE – PIN PATTERN

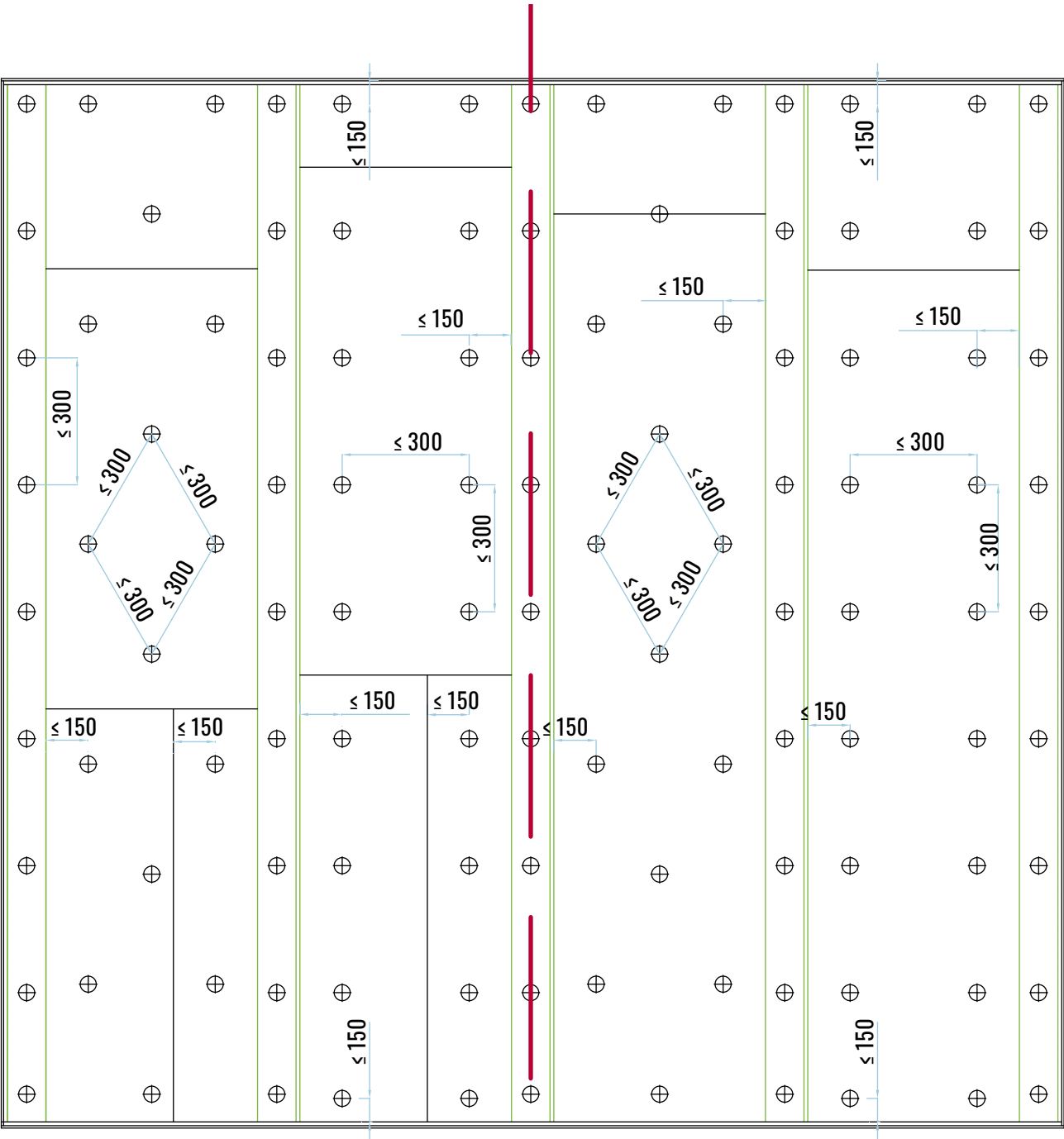
D5.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

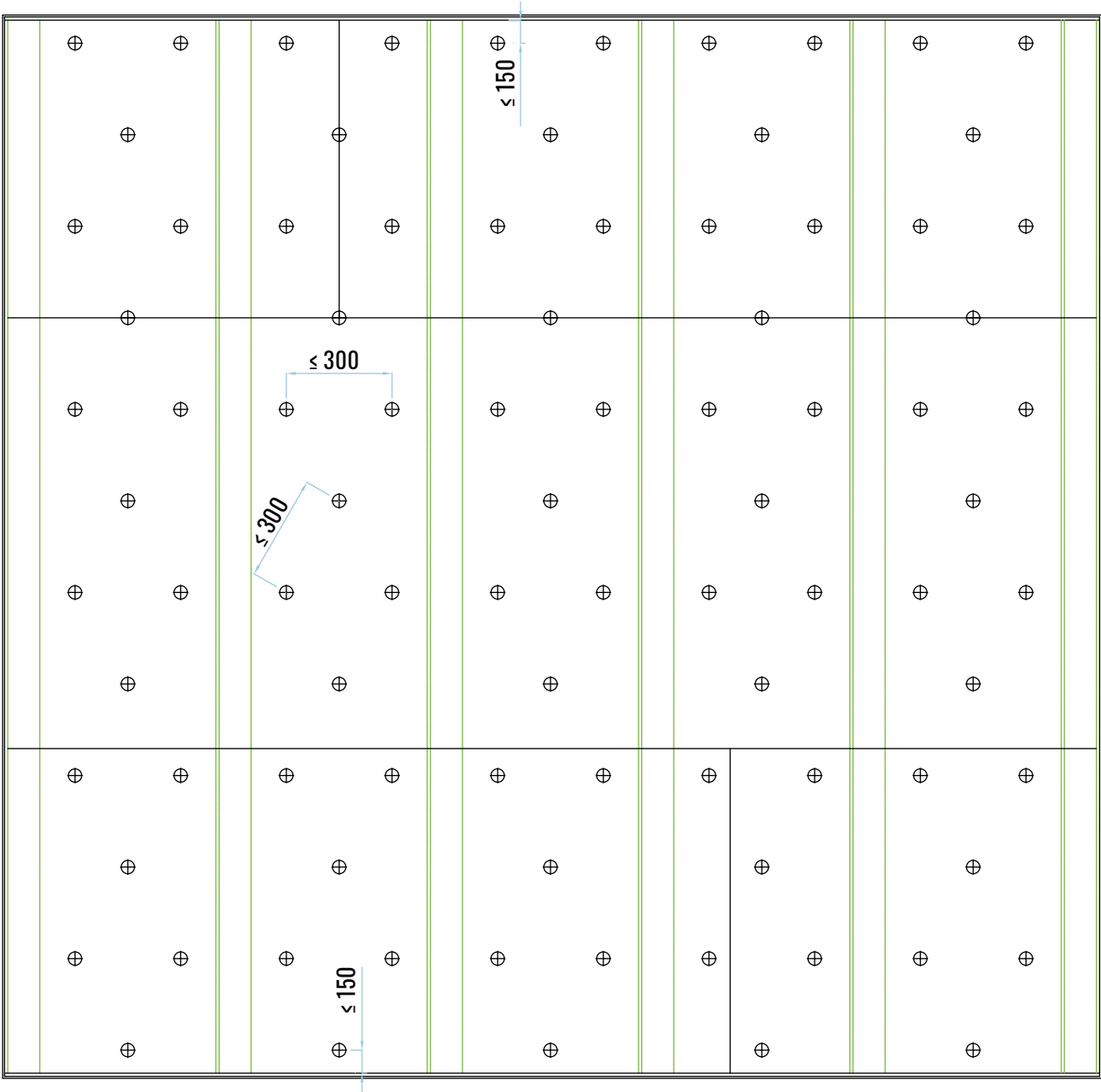
CONTACT

APPLICATION GUIDE – PIN PATTERN

D5.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D5.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)

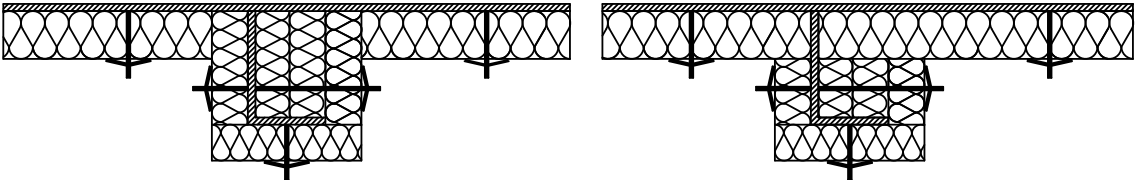
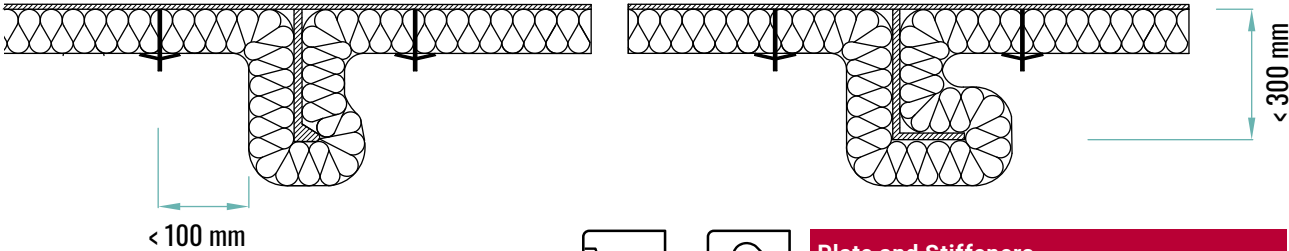


Plate
PAROC Marine Fire Slab 100 th. 25 mm or
PAROC Marine Mat/Wired Mat 100 th. ≥ 25 mm



Stiffeners
PAROC Marine Fire Slab 100
th. 25 mm

2)



1 PRODUCTS
PER SOLUTION



MATS

Plate and Stiffeners
PAROC Marine Mat/Wired Mat 100 th. 30 mm

3)

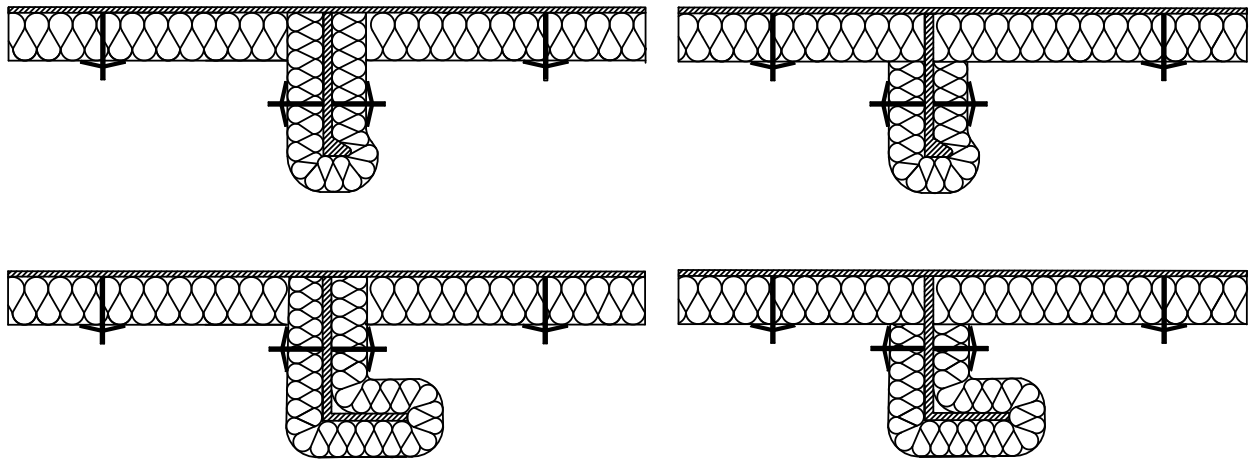


Plate
PAROC Marine Fire Slab 100 th. 25 mm or
PAROC Marine Mat/Wired Mat 100 th. ≥ 25 mm



MATS

Stiffeners
PAROC Marine Mat/Wired Mat
100 th. ≥ 25 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

D5.1



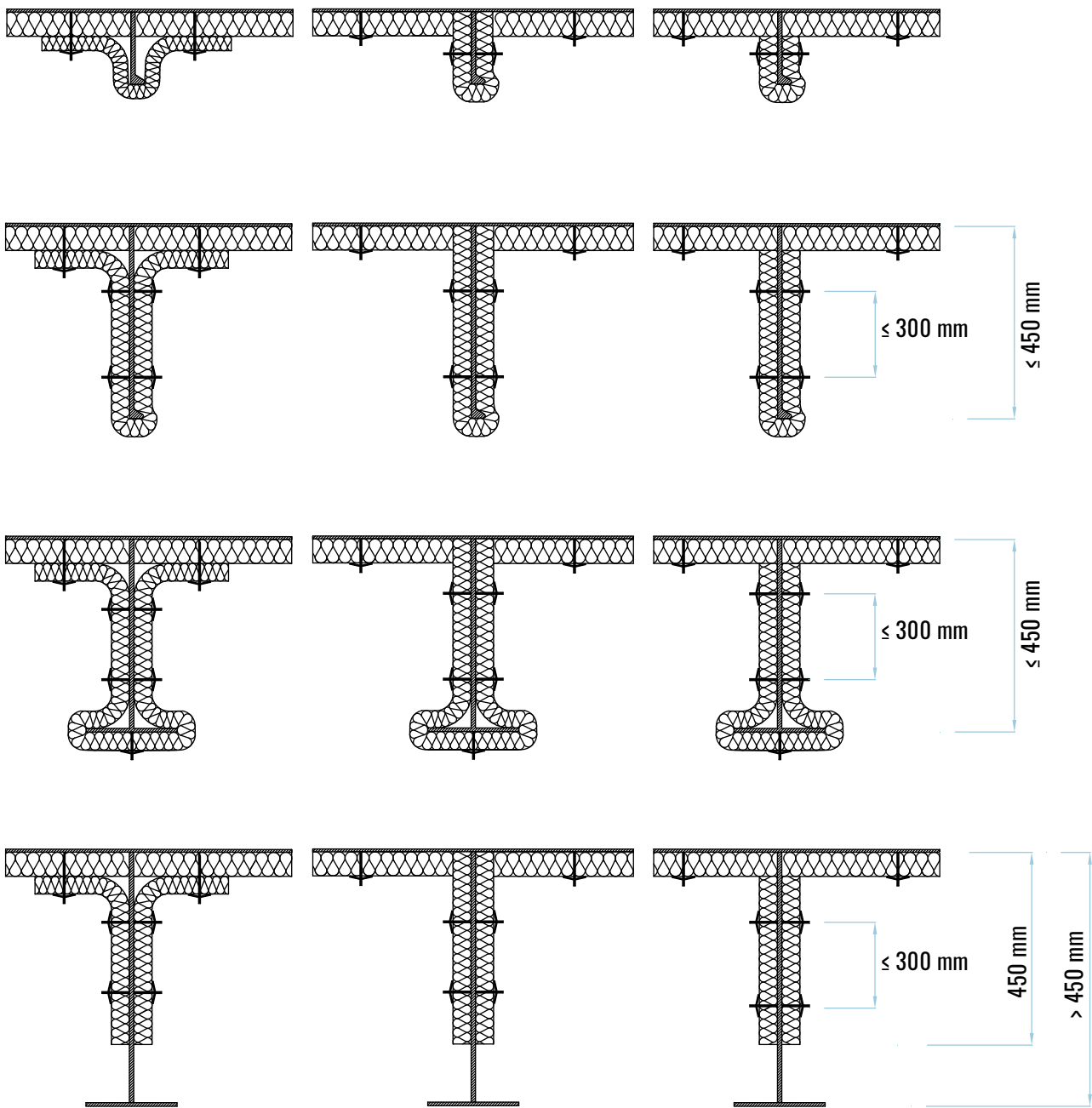
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

A60 STEEL BULKHEAD – PAROC MARINE 100 kg/m³ SOLUTION

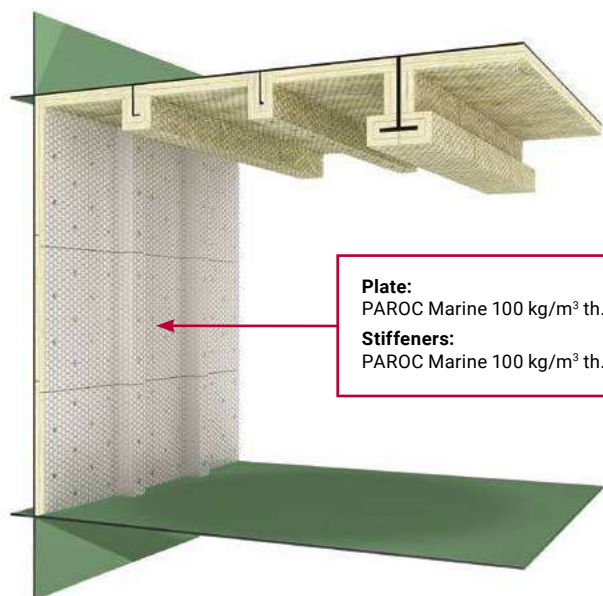
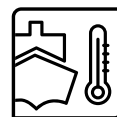
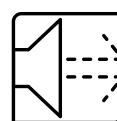
B4.1


Plate:
PAROC Marine 100 kg/m³ th. 60 mm
Stiffeners:
PAROC Marine 100 kg/m³ th. 25 mm


**2 PRODUCTS
FOR SOLUTION**

**λ 0,035-
0,039 W/mK**

A60

49 dB

PAROC MARINE 100 kg/m³ CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035
PAROC Marine Mat /Wired Mat 100	100	0,039

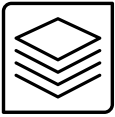
Plate	Stiffeners
 	 

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _v)
B4.1	A60	100/60	100/25	6,0 / 2,5	49 (-1,-6)

APPLICATION GUIDE – PIN PATTERN

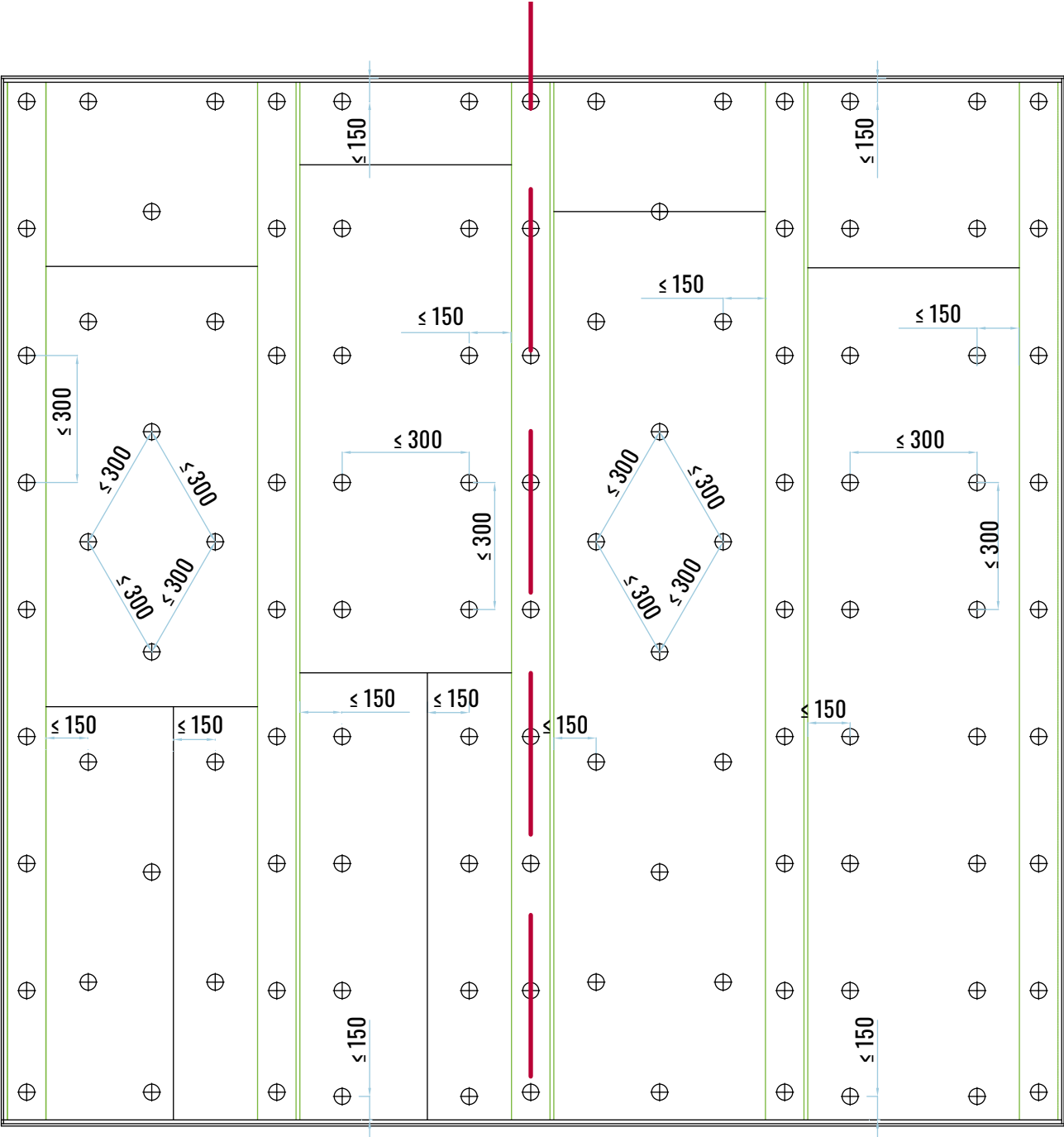
B4.1



SLABS



MATS & WIRED MATS



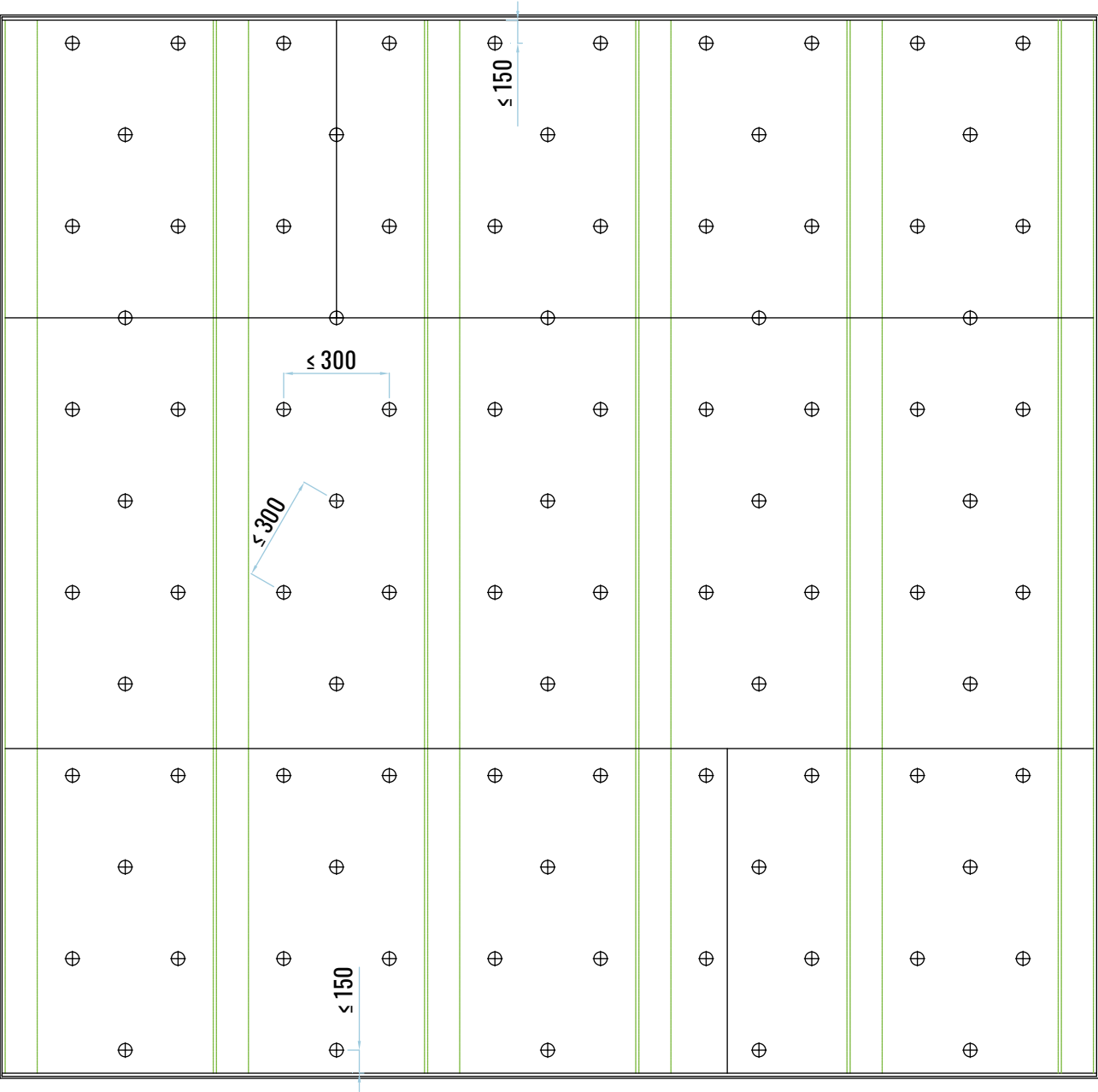
Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – PIN PATTERN

B4.1



MATS & WIRED MATS



ROLLS DIRECTION

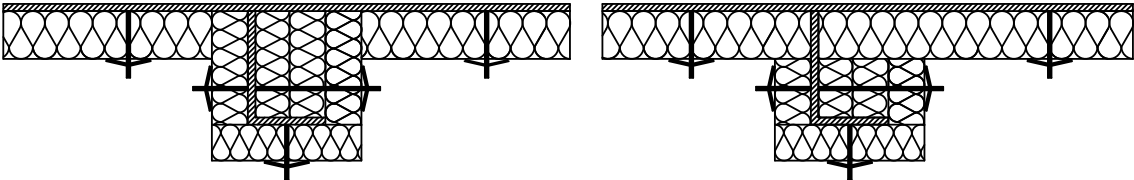
Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B4.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Fire Slab 100 th. 60 mm or
PAROC Marine Mat/Wired Mat 100 th. 60 mm

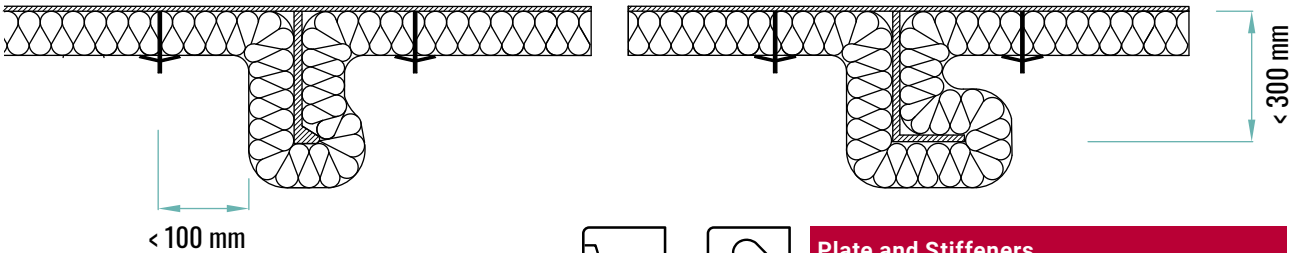


SLAB

Stiffeners

PAROC Marine Fire Slab 100
th. 25 mm

2)



< 100 mm

< 300 mm



1 PRODUCTS
PER SOLUTION

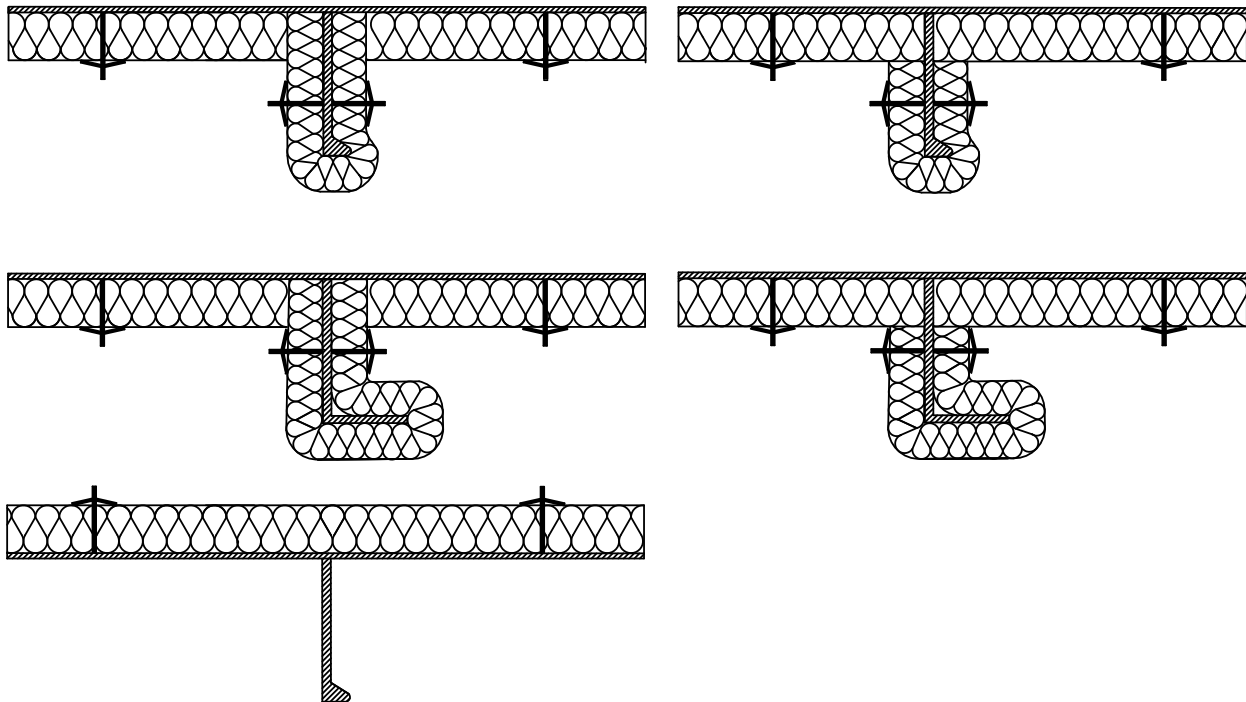


MATS

Plate and Stiffeners

PAROC Marine Mat/Wired Mat 100 th. 60 mm

3)



SLAB



MATS

Plate

PAROC Marine Fire Slab 100 th. 60 mm or
PAROC Marine Mat/Wired Mat 100 th. 60 mm



MATS

Stiffeners

PAROC Marine Mat/Wired Mat
100 th. ≥ 25 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

B4.1



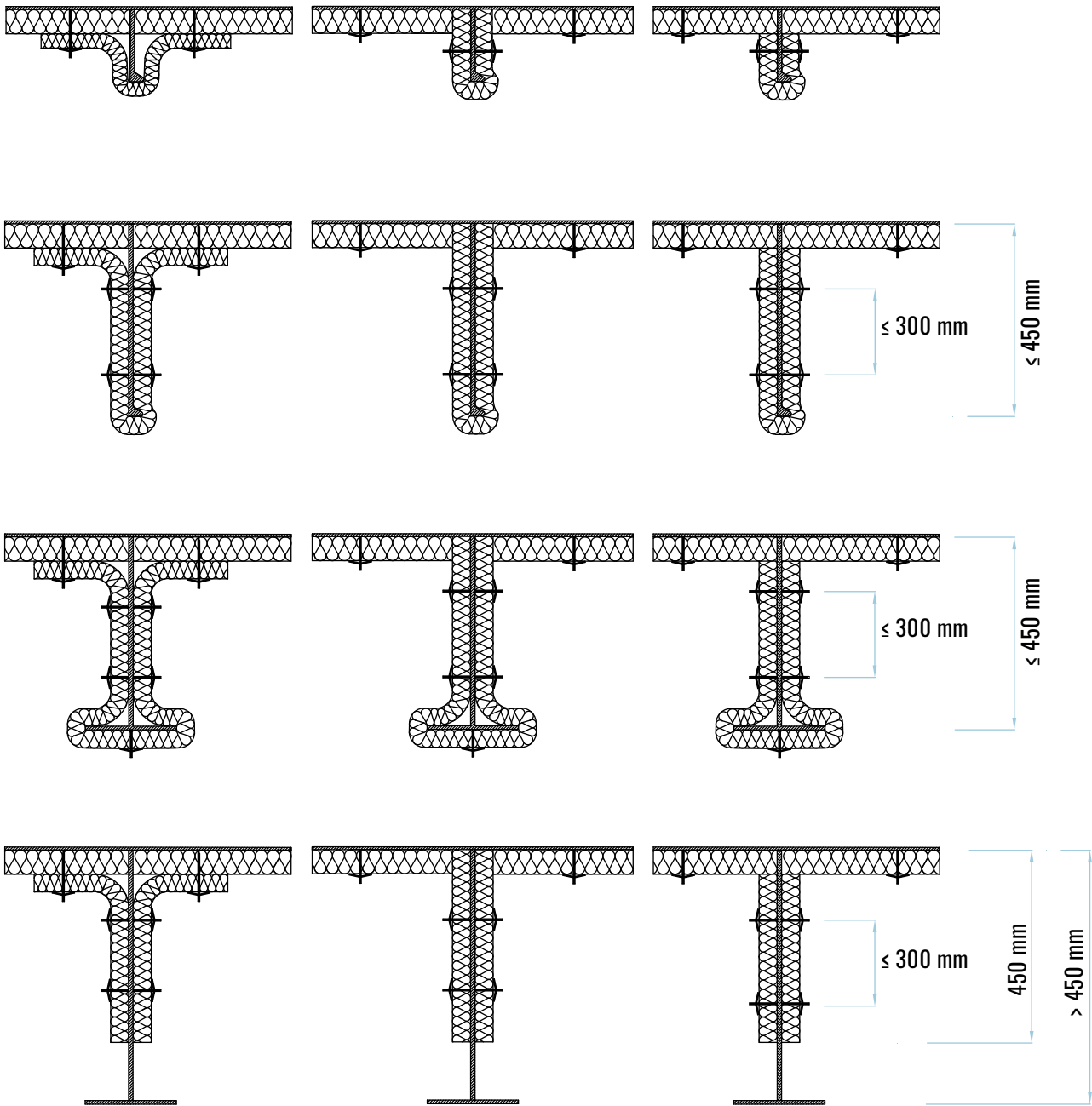
FAST
INSTALLATION



MATS

1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

A30 STEEL BULKHEAD – PAROC MARINE 100 kg/m³ SOLUTION

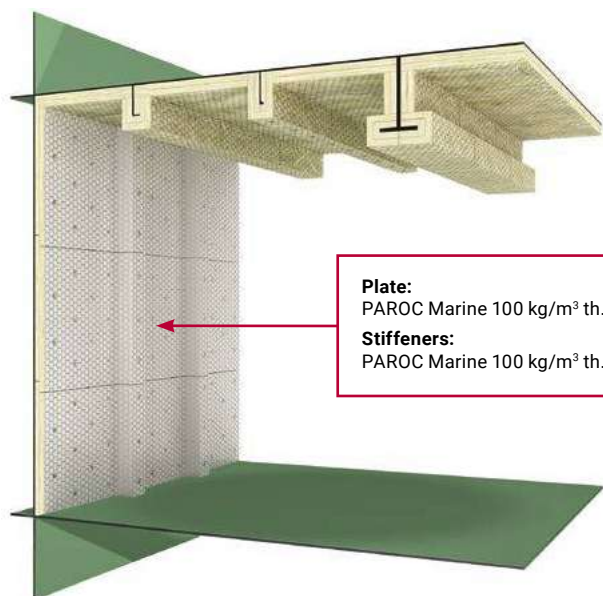
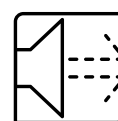
B5.1


Plate:
PAROC Marine 100 kg/m³ th. 40 mm
Stiffeners:
PAROC Marine 100 kg/m³ th. 25 mm


**2 PRODUCTS
FOR SOLUTION**

**λ 0,035-
0,039 W/mK**

A30

47 dB

PAROC MARINE 100 kg/m³ CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035
PAROC Marine Mat /Wired Mat 100	100	0,039

Plate	Stiffeners
 	 

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D5.1	A30	100/40	100/25	4,0 / 2,5	47 (-2,-6)

APPLICATION GUIDE – PIN PATTERN

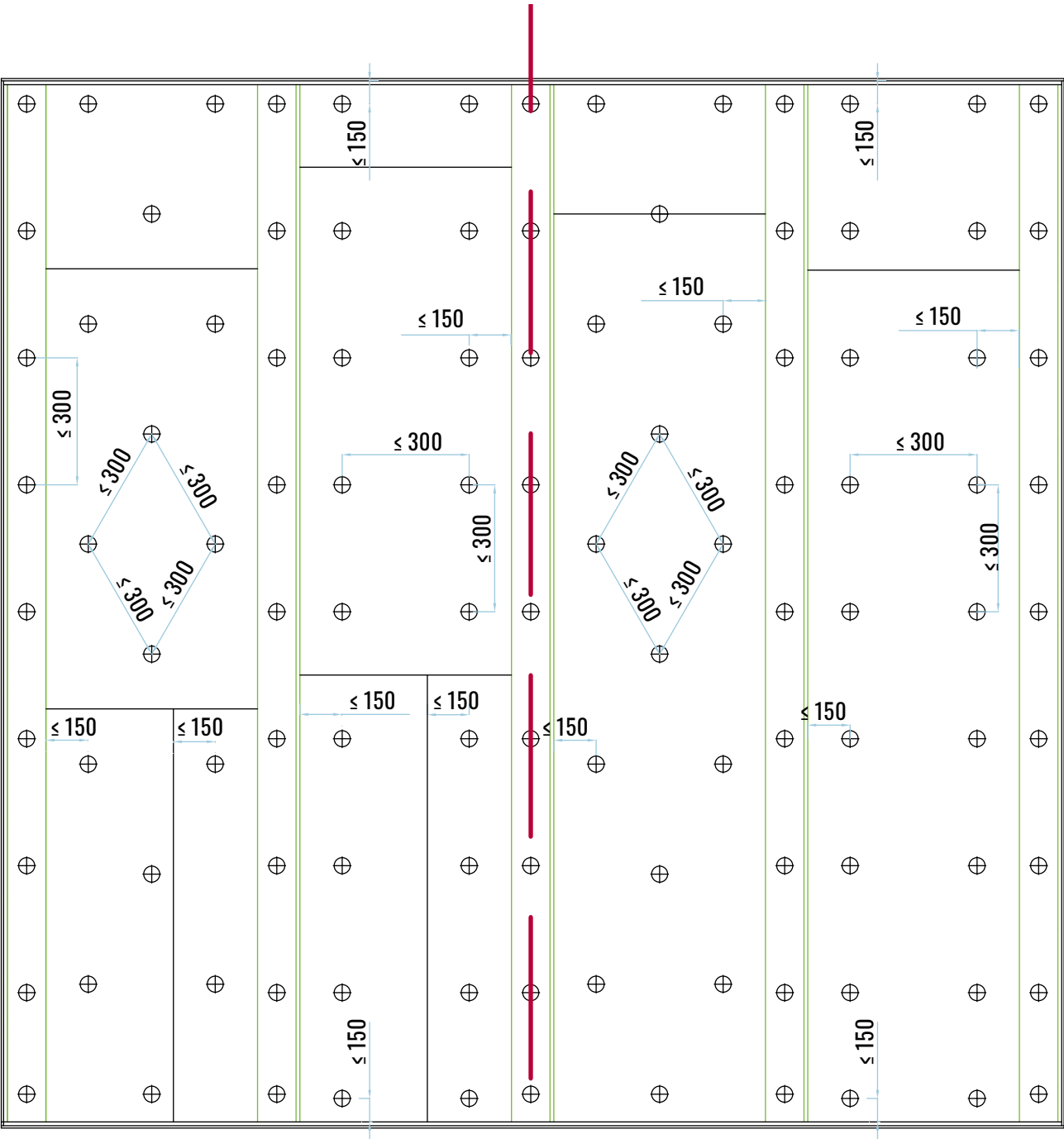
B5.1



SLABS



MATS & WIRED MATS



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

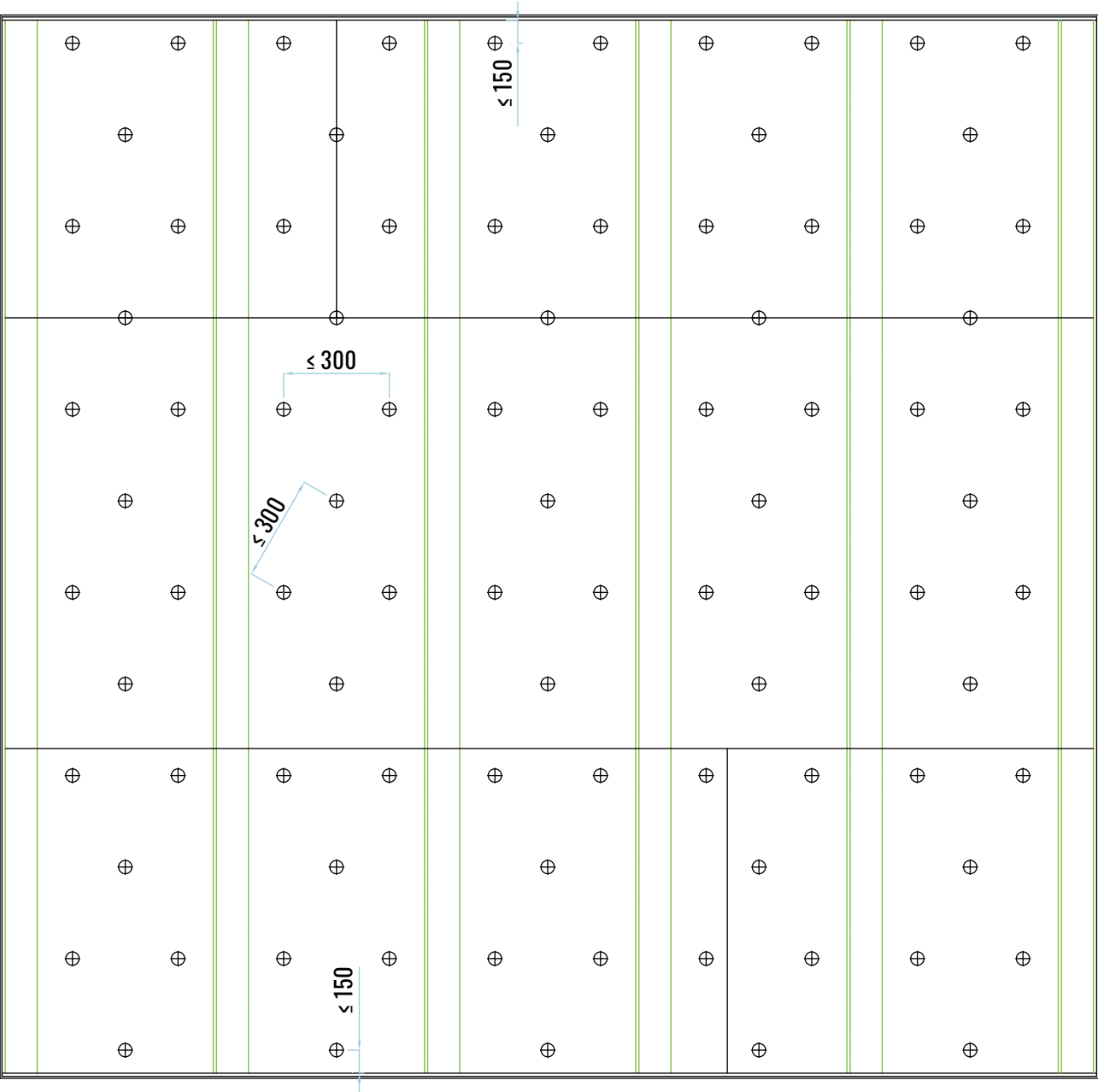
CONTACT

APPLICATION GUIDE – PIN PATTERN

B5.1



MATS & WIRED MATS



ROLLS DIRECTION

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

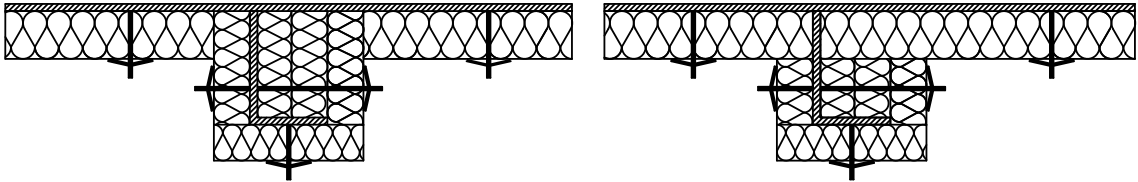
CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B5.1

STIFFENERS – ALTERNATIVE METHODS WITH SLABS AND MATS

1)



SLAB



MATS

Plate

PAROC Marine Fire Slab 100 th. 40 mm or
PAROC Marine Mat/Wired Mat 100 th. 40 mm

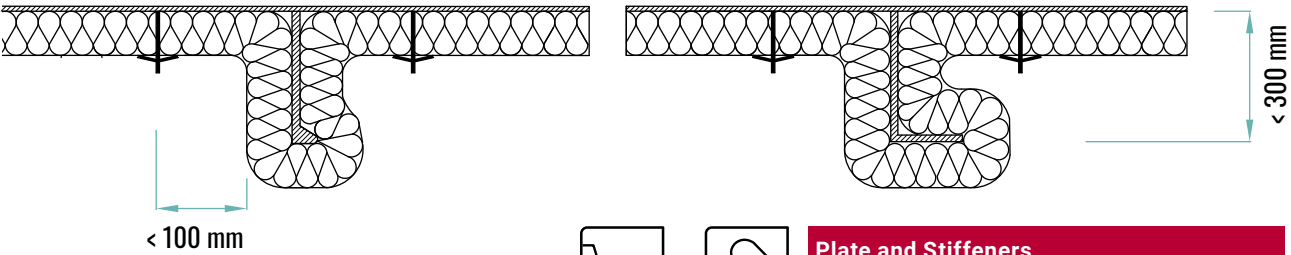


SLAB

Stiffeners

PAROC Marine Fire Slab 100
th. 25 mm

2)



< 100 mm

< 300 mm



1 PRODUCTS
PER SOLUTION

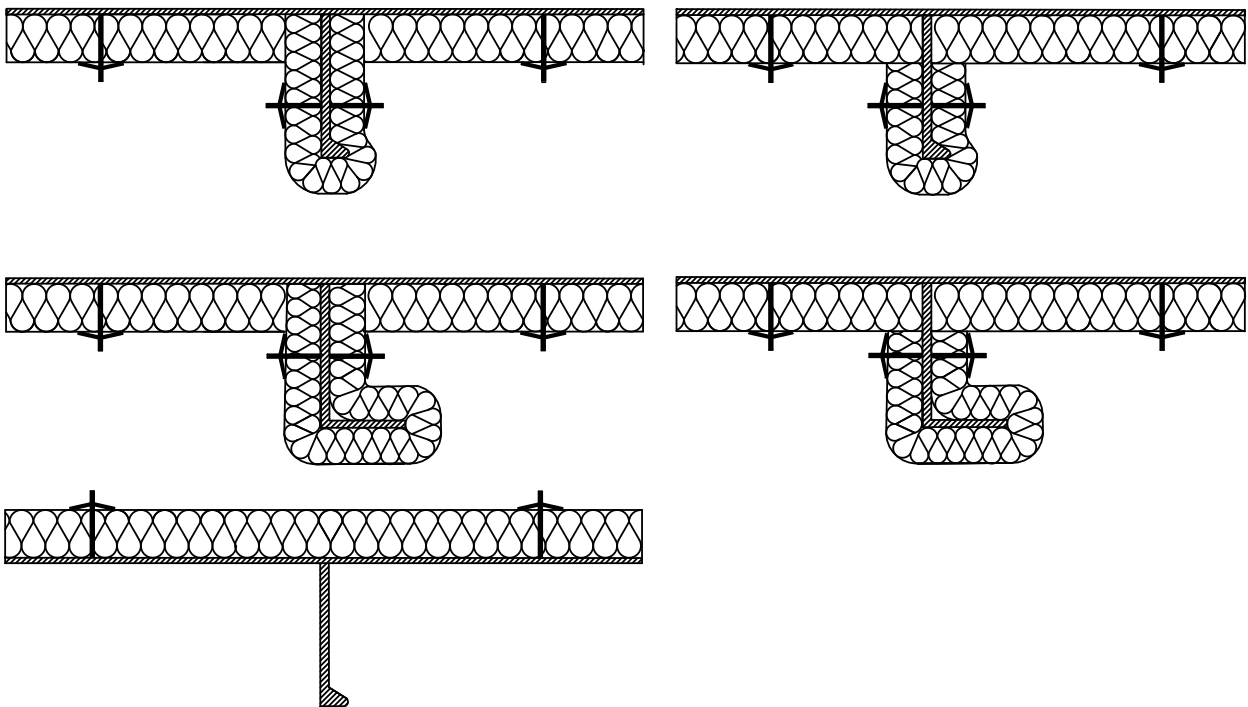


MATS

Plate and Stiffeners

PAROC Marine Mat/Wired Mat 100 th. 40 mm

3)



SLAB



MATS

Plate

PAROC Marine Fire Slab 100 th. 40 mm or
PAROC Marine Mat/Wired Mat 100 th. 40 mm



MATS

Stiffeners

PAROC Marine Mat/Wired Mat
100 th. ≥ 25 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – MAT INSULATION ON STIFFENERS

B5.1



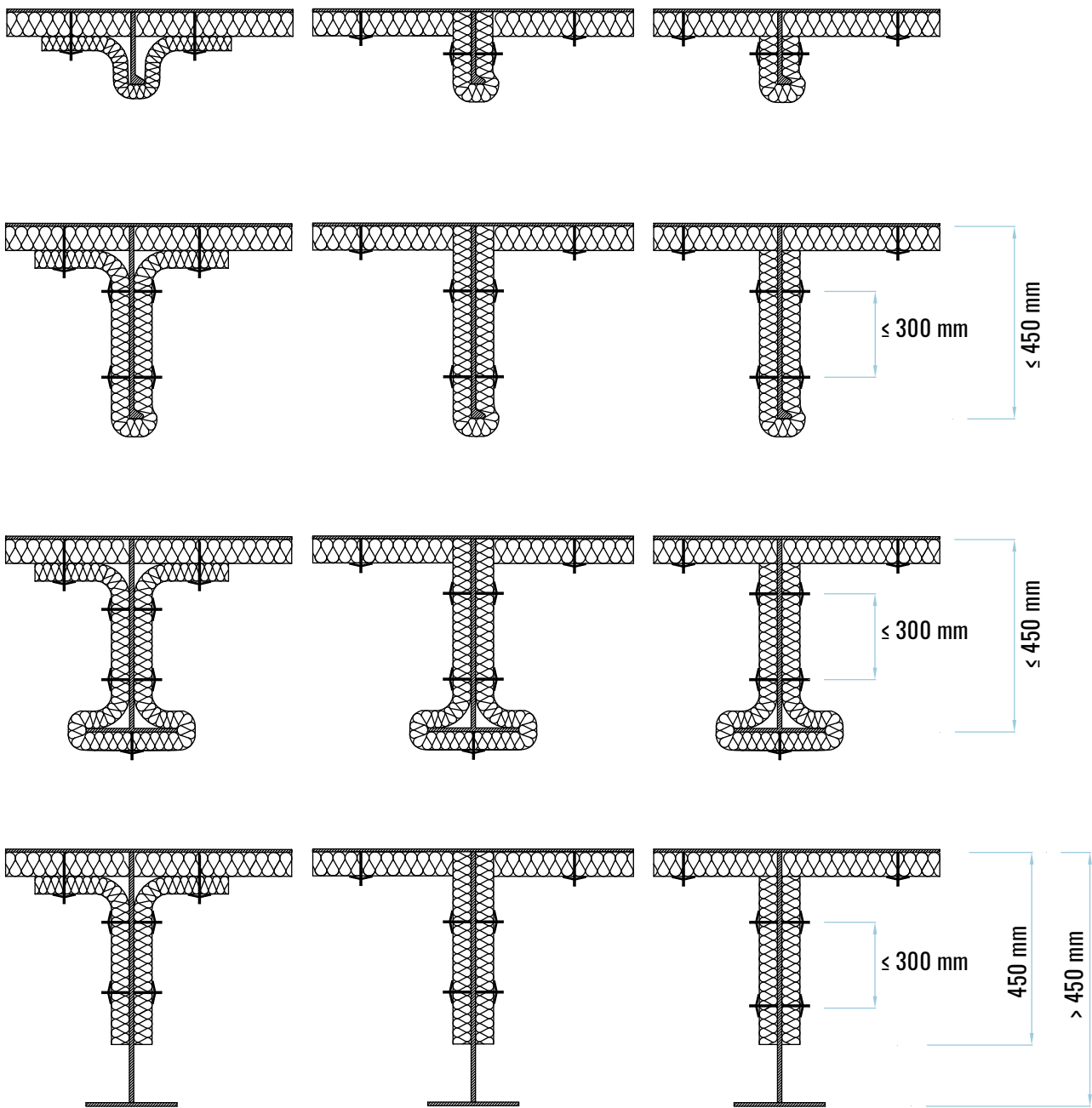
FAST
INSTALLATION



MATS

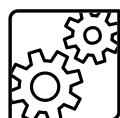
1 products for all stiffeners

PAROC Marine Navis Mat 60 th. 30 mm



According to MSC/Circ.1120 where stiffeners are > 450 mm

PAROC MARINE NAVIS MAT SOLUTIONS – ALUMINUM DECK & BULKHEAD



**EASY
SYSTEM**



**FAST
INSTALLATION**



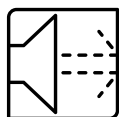
**LESS TOTAL
PRODUCTS
FOR A PROJECT**



MATS



**FIREPROOFING
PERFORMANCE**



**ACOUSTICS
PERFORMANCE**



**THERMAL
INSULATION
PERFORMANCE**

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Mat/Wired Mat 60	60	0,032
PAROC Marine Mat/Wired Mat 90	90	0,039

DECK 6 mm FTPCODE2010

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
D7.1	A60	60/60	60/60	3,6 / 3,6	41 (-2,-7)

DECK 4 mm

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
D8.1	A60	90/60	90/60	5,4 / 5,4	39 (-2,-7)

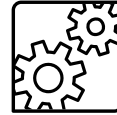
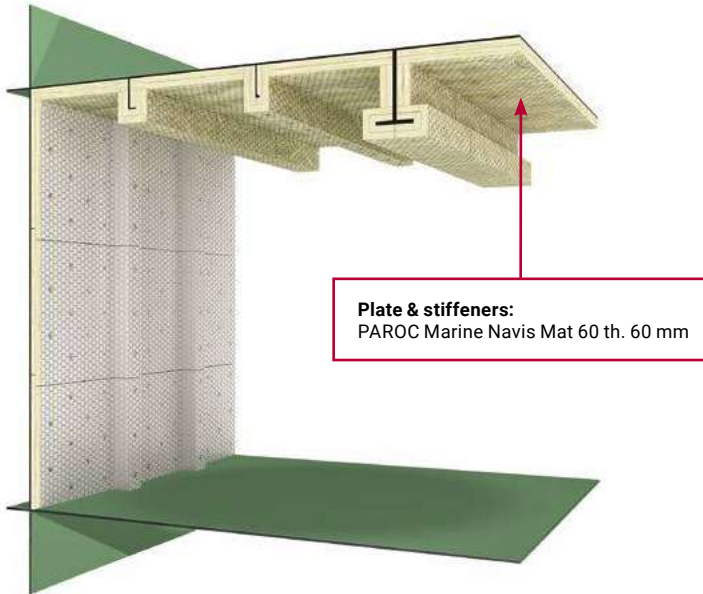
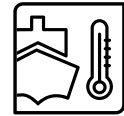
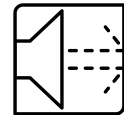
BULKHEAD 6 mm FTPCODE2010

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
B7.1	A60	60/60 both side	60/60	3,6+3,6 / 3,6	43 (-3,-8)
B7.2	A60	60/60 – fire side	60/60	3,6 / 3,6	41 (-2,-7)

BULKHEAD 4 mm

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
B8.1	A60	90/70 both side	90/70	6,3+6,3 / 6,3	41 (-3,-8)

A60 ALUMINUM DECK 6 mm PLATE PAROC MARINE NAVIS MAT 60 kg/m³ SOLUTION

D7.1**EASY
SYSTEM****FAST
INSTALLATION****1 PRODUCTS
FOR SOLUTION****λ 0,032 W/mK****A60****41 dB**

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Mat/Wired Mat 60	60	0,032

Plate	Stiffeners

DECK 6 mm FTPCODE2010

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C,C _{tr})
D7.1	A60	60/60	60/60	3,6 / 3,6	41 (-2,-7)

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEADPAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEADPAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

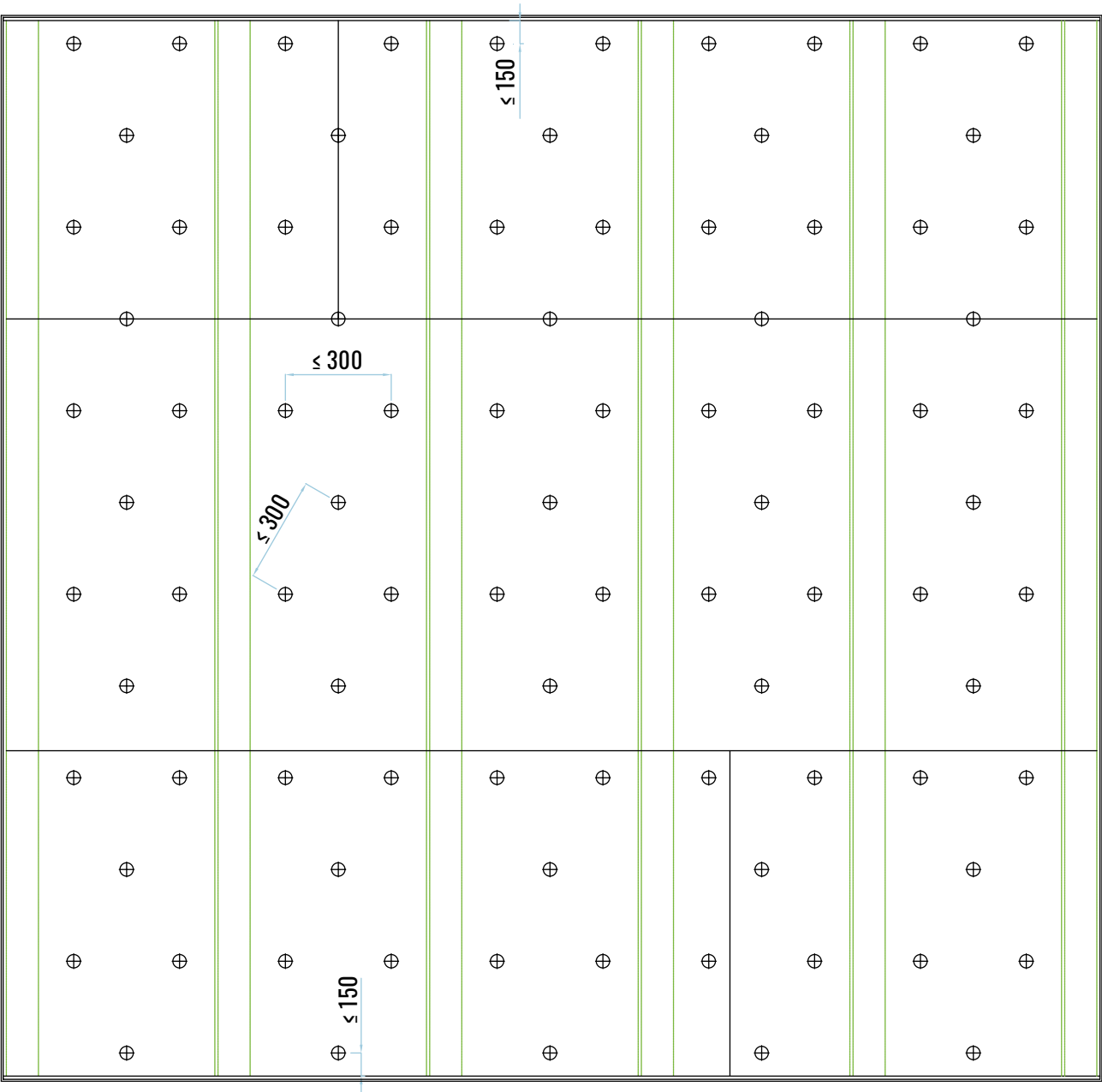
APPLICATION GUIDE – PIN PATTERN

D7.1



MATS

**PLATE AND STIFFENERS: PAROC MARINE NAVIS MAT 60 TH. 60 mm
& PAROC MARINE NAVIS WIRED MAT TH. 60 mm**

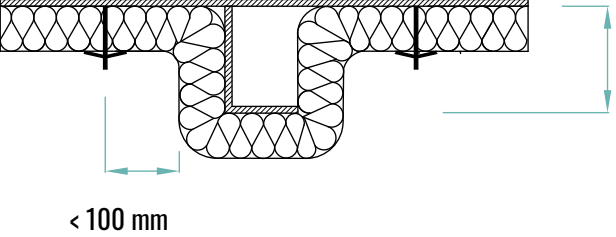


Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D7.1

ALTERNATIVE METHODS



< 100 mm

< 300 mm



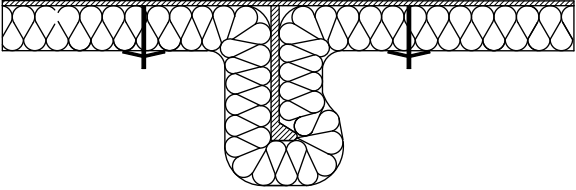
1 PRODUCTS
PER SOLUTION



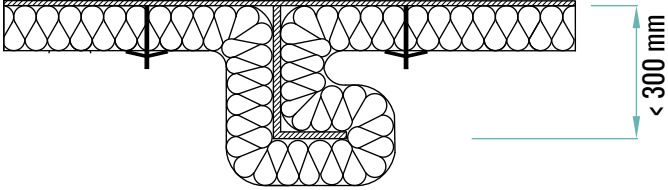
MATS

Plate and Stiffeners:

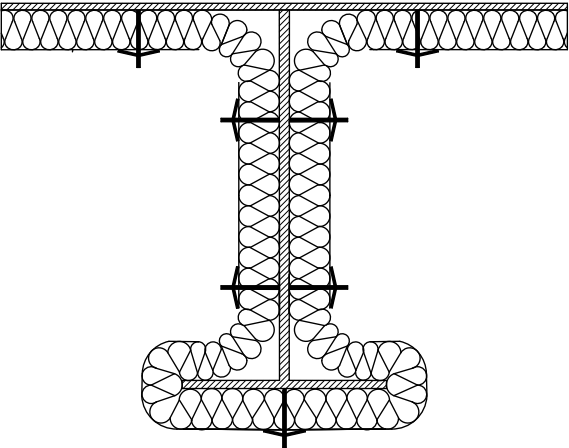
PAROC Marine Navis Mat 60 th. 60 mm
PAROC Marine Navis Wired Mat 60 th. 60 mm



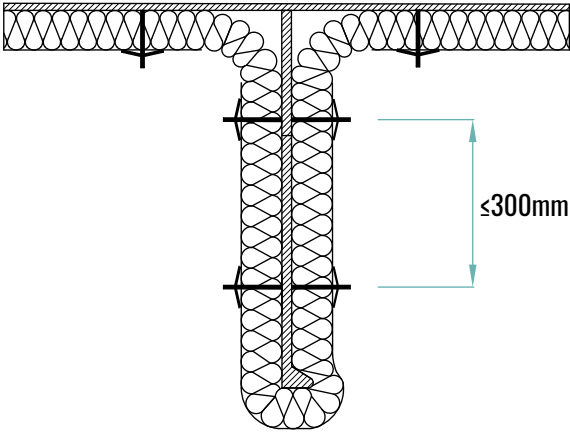
< 300 mm



< 300 mm

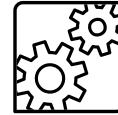
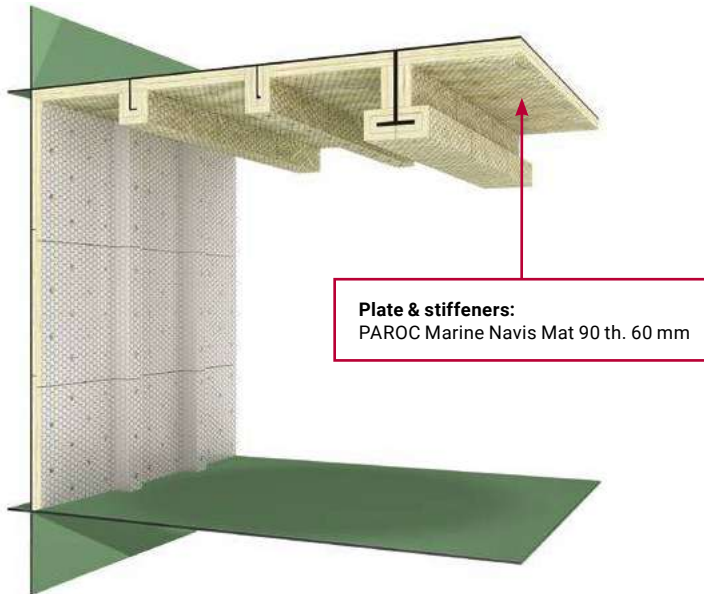


≤ 300 mm

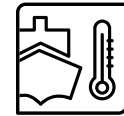


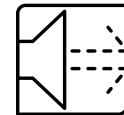
≤ 300 mm

A60 ALUMINUM DECK 4 mm PLATE PAROC MARINE NAVIS MAT 90 kg/m³ SOLUTION

D8.1

**EASY
SYSTEM**

**FAST
INSTALLATION**

**1 PRODUCTS
FOR SOLUTION**

 λ 0,039 W/mK

A60

39 dB

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis Mat/Wired Mat 90	90	0,039

Plate	Stiffeners
	

DECK 4 mm

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
D8.1	A60	90/60	90/60	5,4 / 5,4	39 (-2,-7)

 PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

 PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

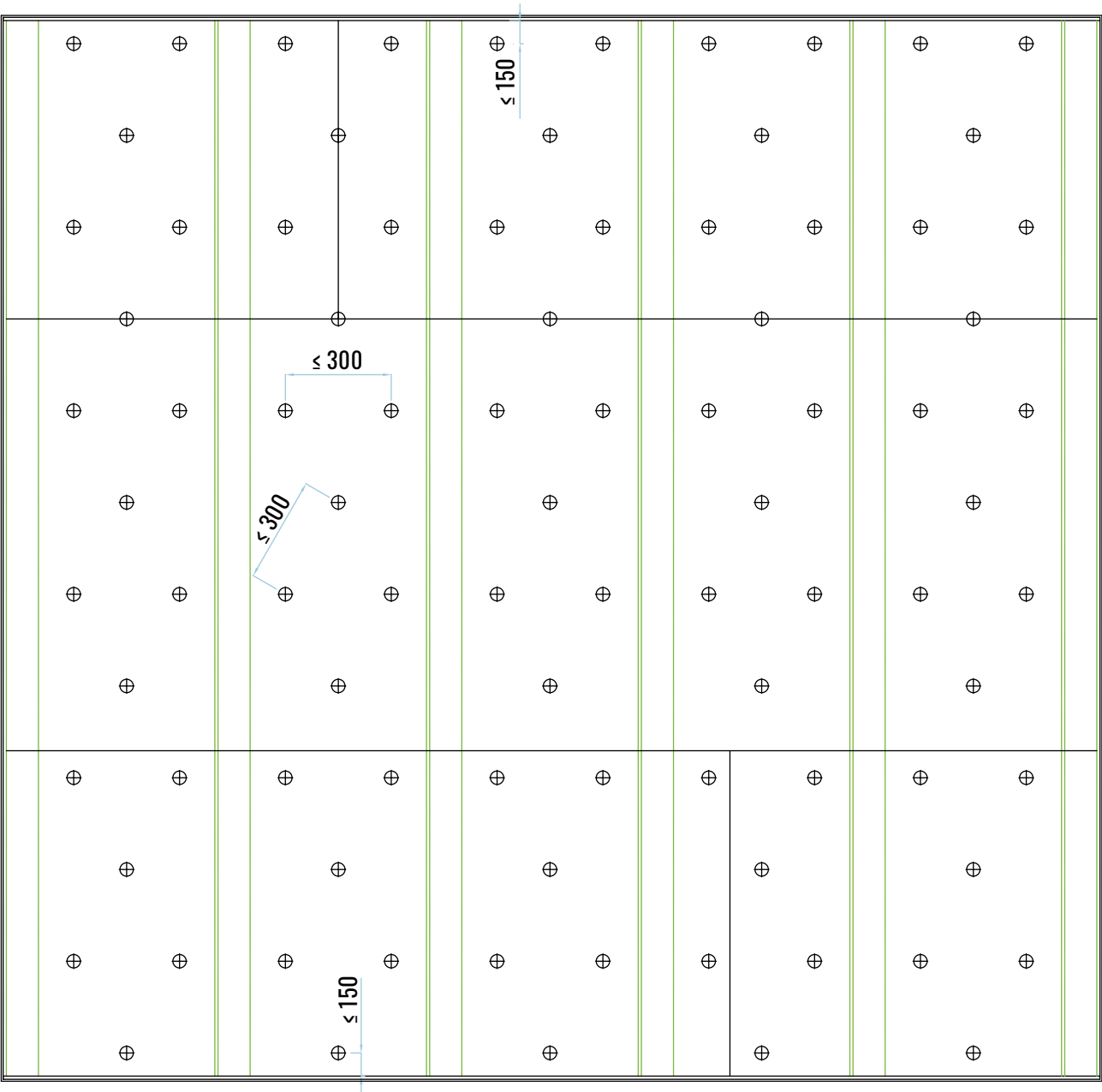
APPLICATION GUIDE – PIN PATTERN

D8.1



MATS

**PLATE AND STIFFENERS: PAROC MARINE NAVIS MAT 90 TH. 60 mm
& PAROC MARINE NAVIS WIRED MAT TH. 90 mm**



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

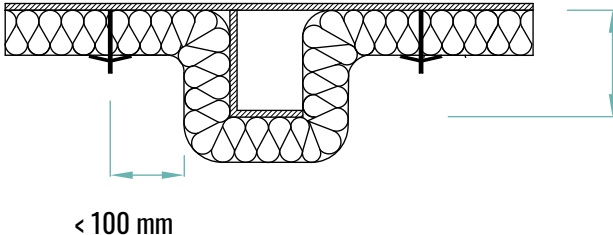
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

D8.1

ALTERNATIVE METHODS



< 100 mm

< 300 mm



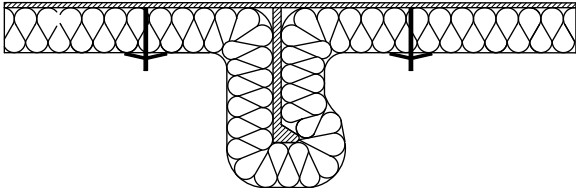
1 PRODUCTS
PER SOLUTION



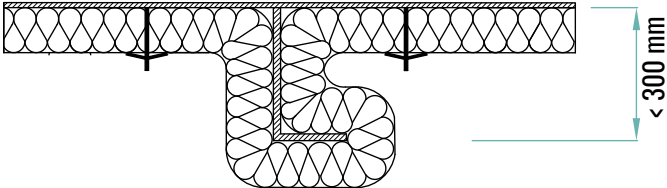
MATS

Plate and Stiffeners:

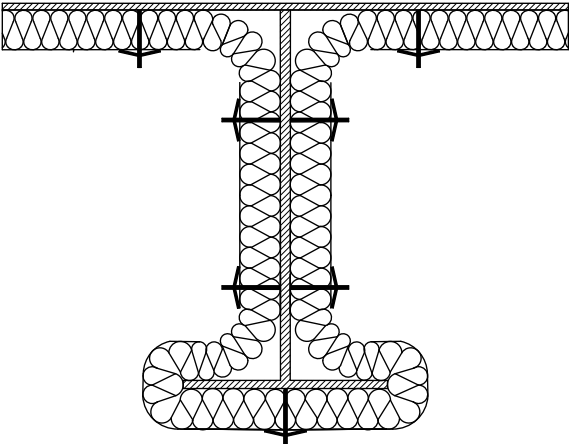
PAROC Marine Navis Mat 90 th. 60 mm
PAROC Marine Navis Wired Mat 90 th. 60 mm



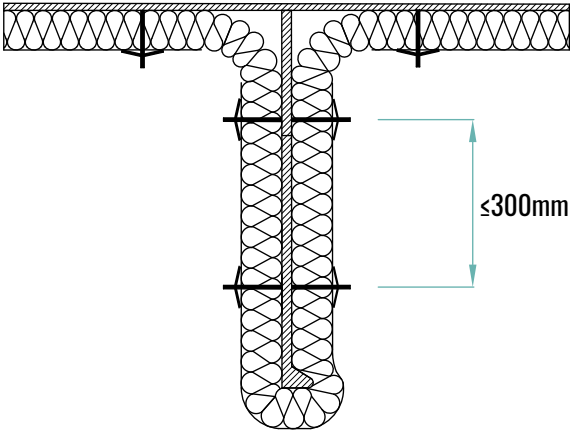
< 300 mm



< 300 mm

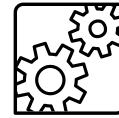
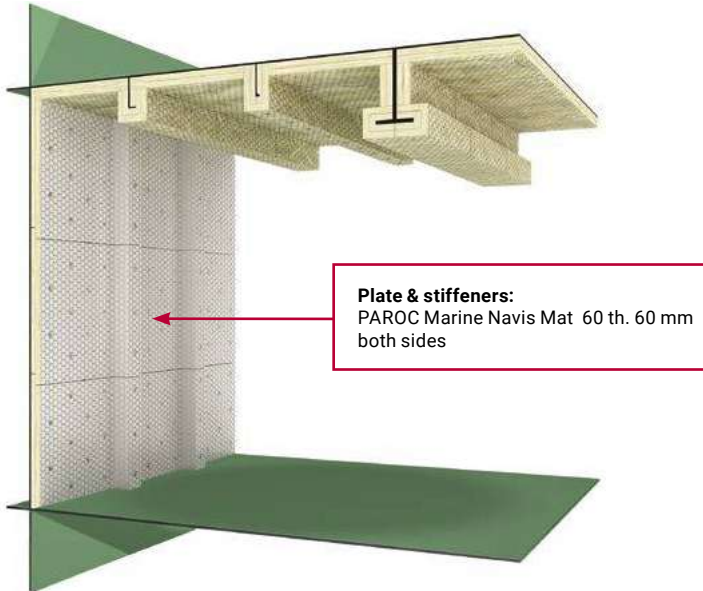
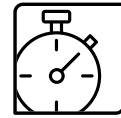
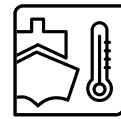
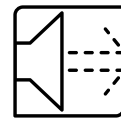


≤300mm



≤300mm

A60 ALUMINUM BULKHEAD 6 mm PLATE PAROC MARINE NAVIS MAT 60 kg/m³ SOLUTION

B7.1**EASY
SYSTEM****FAST
INSTALLATION****1 PRODUCTS
FOR SOLUTION****λ 0,032 W/mK****A60****43 dB**

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis Mat/Wired Mat 60	60	0,032

Plate	Stiffeners

DECK 6 mm FTPCODE2010

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
B7.1	A60	60/60 both side	60/60	3,6+3,6 / 3,6	43 (-3,-8)

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEADPAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEADPAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

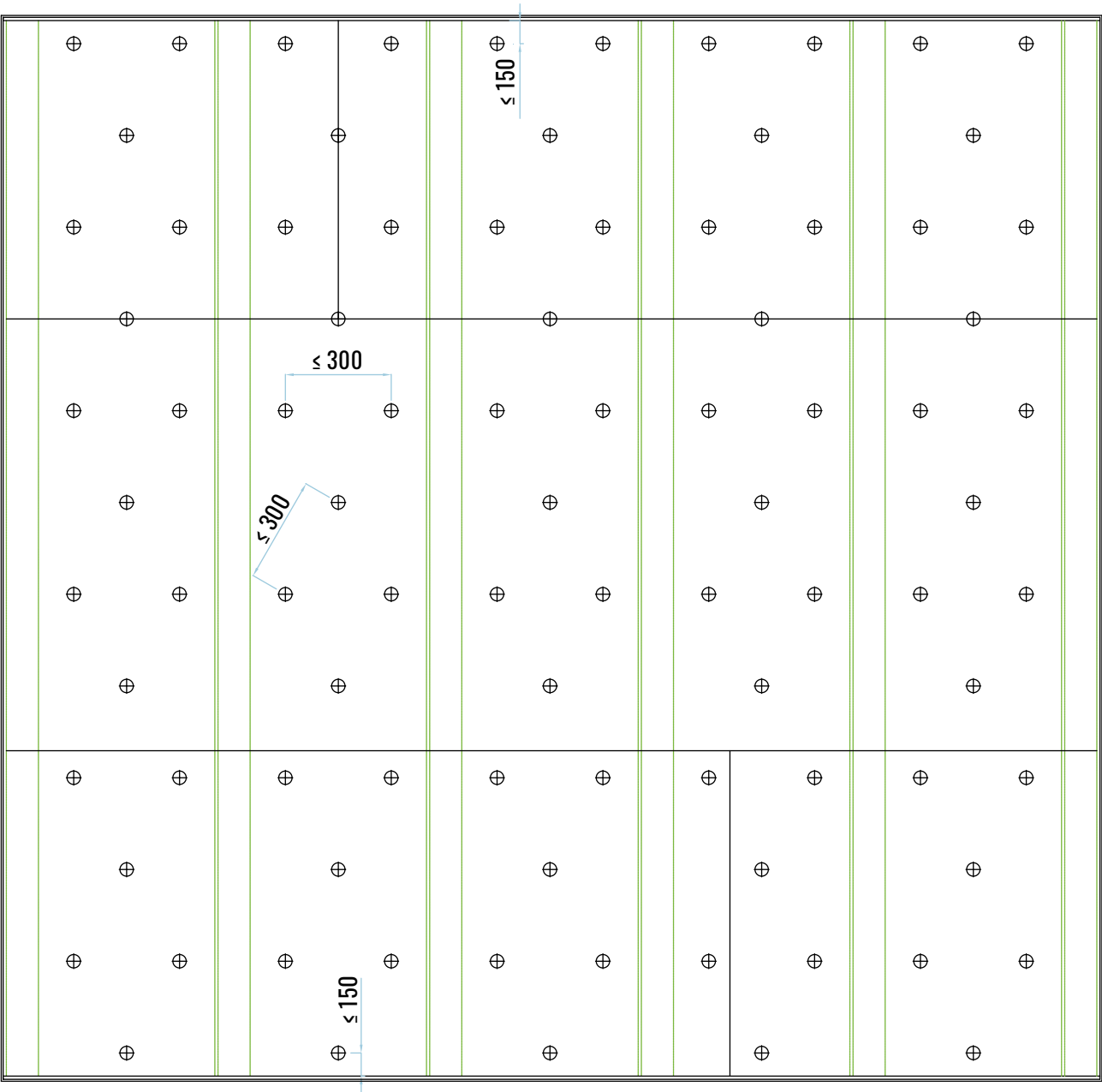
APPLICATION GUIDE – PIN PATTERN

B7.1



MATS

**PLATE AND STIFFENERS: PAROC MARINE NAVIS MAT 60 TH. 60 mm
& PAROC MARINE NAVIS WIRED MAT TH. 60 mm**



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

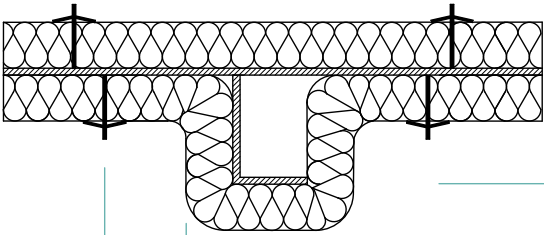
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B7.1

ALTERNATIVE METHODS



< 100 mm

< 300 mm



1 PRODUCTS
PER SOLUTION

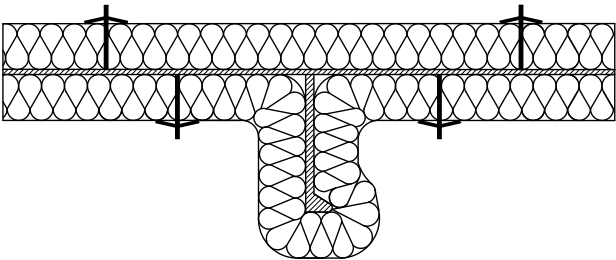


MATS

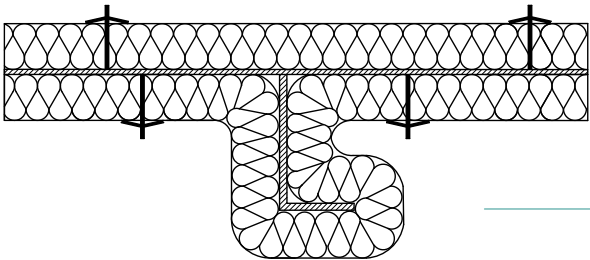
Plate and Stiffeners:

PAROC Marine Navis Mat
60 th. 60 mm

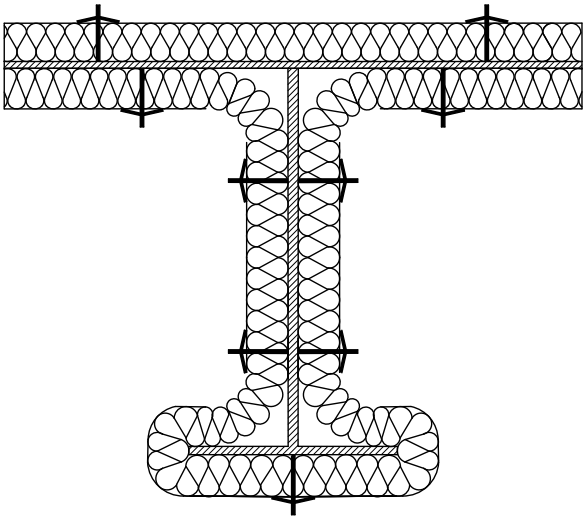
PAROC Marine Navis Wired Mat 60
th. 60 mm



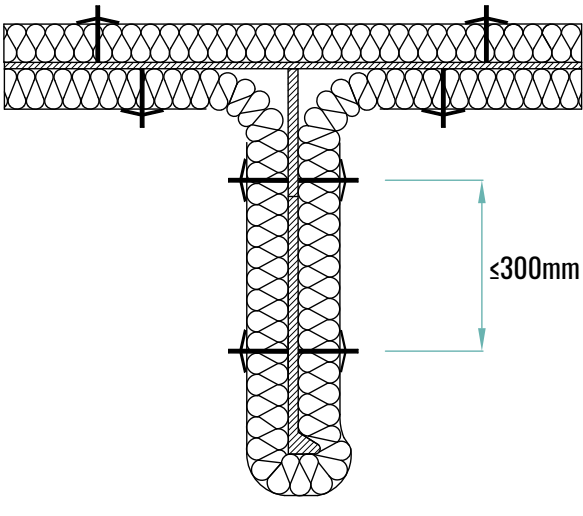
< 300 mm



< 300 mm

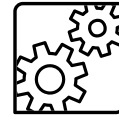
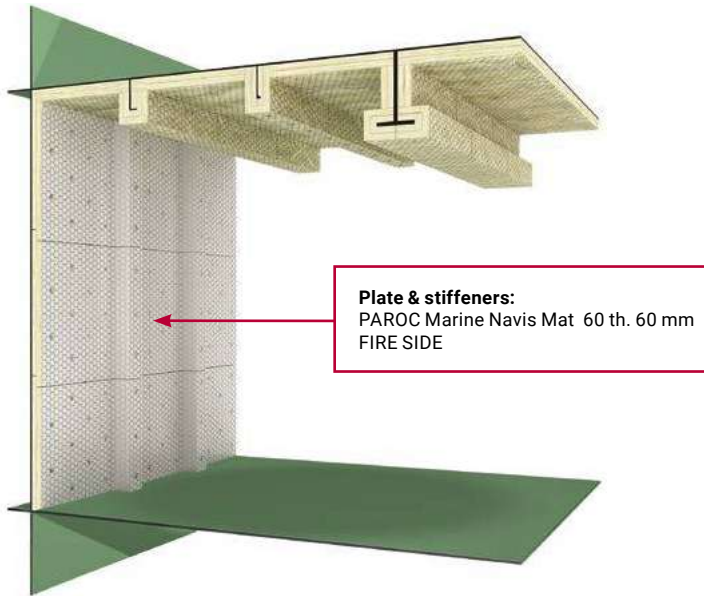
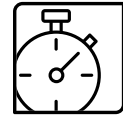
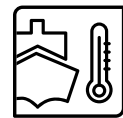
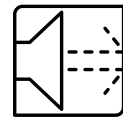


< 300 mm



≤300mm

A60 ALUMINUM BULKHEAD 6 mm PLATE PAROC MARINE NAVIS MAT 60 kg/m³ SOLUTION - RESTRICTED

B7.2**EASY
SYSTEM****FAST
INSTALLATION****1 PRODUCTS
FOR SOLUTION****λ 0,032 W/mK****A60****41 dB**

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Navis Mat/Wired Mat 60	60	0,032

Plate	Stiffeners

DECK 6 mm FTPCODE2010

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _r)
B7.2	A60	60/60 - on fire side	60/60	3,6 / 3,6	41 (-2,-7)

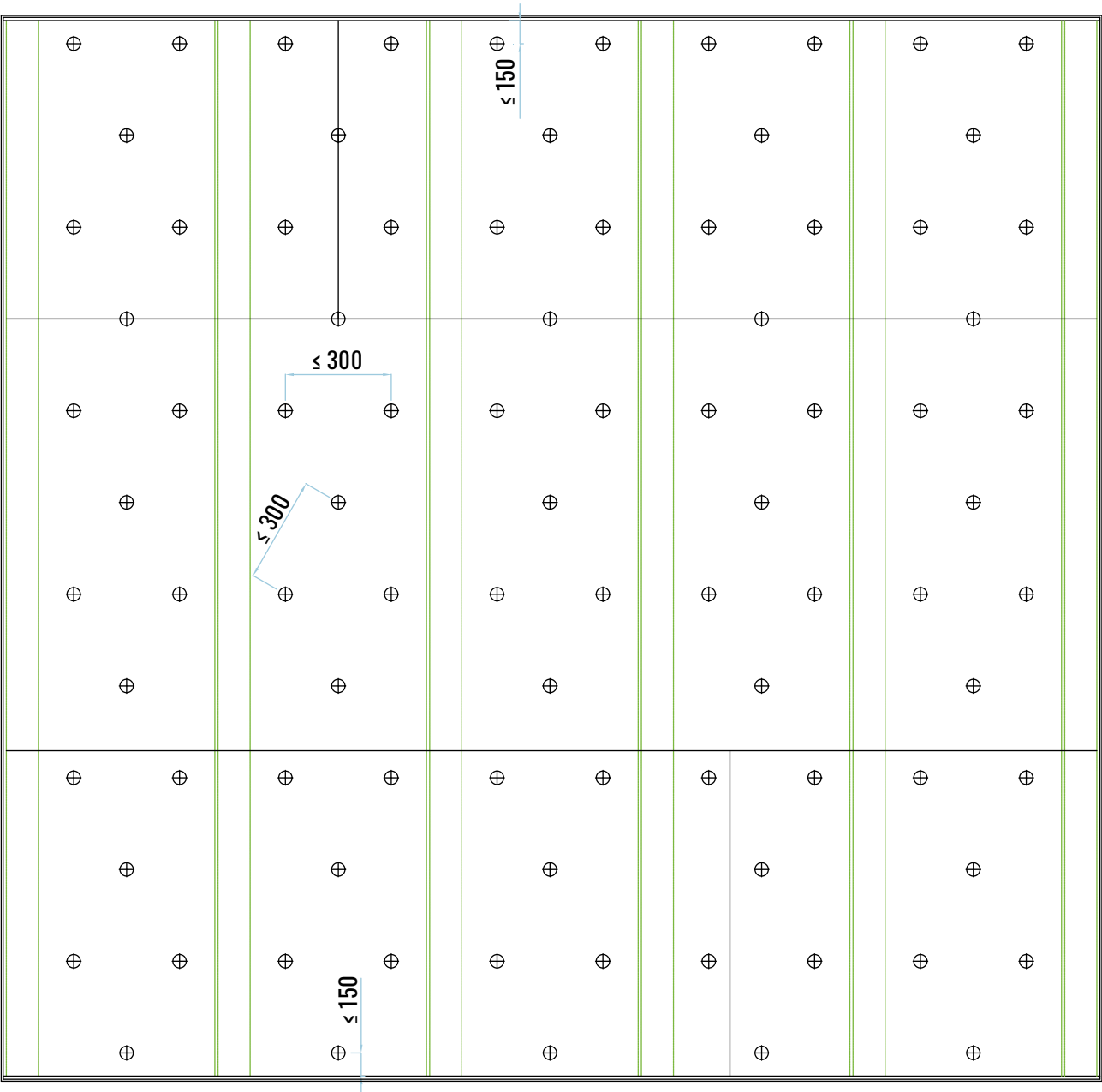
APPLICATION GUIDE – PIN MESH

B7.2



MATS

**PLATE AND STIFFENERS: PAROC MARINE NAVIS MAT 60 TH. 60 mm
& PAROC MARINE NAVIS WIRED MAT 60 TH. 60 mm**



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

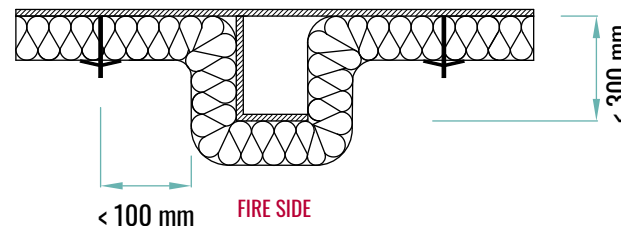
CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B7.2

ALTERNATIVE METHODS



< 100 mm

< 300 mm

FIRE SIDE



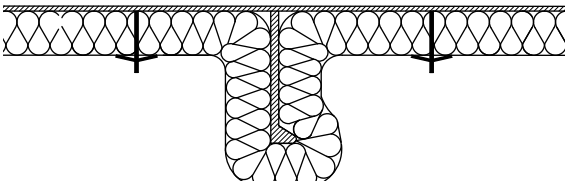
1 PRODUCTS
PER SOLUTION



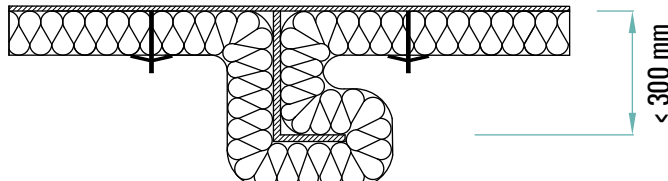
MATS

Plate and Stiffeners:

PAROC Marine Navis Mat 60 th. 60 mm
PAROC Marine Navis Wired Mat 60 th. 60 mm

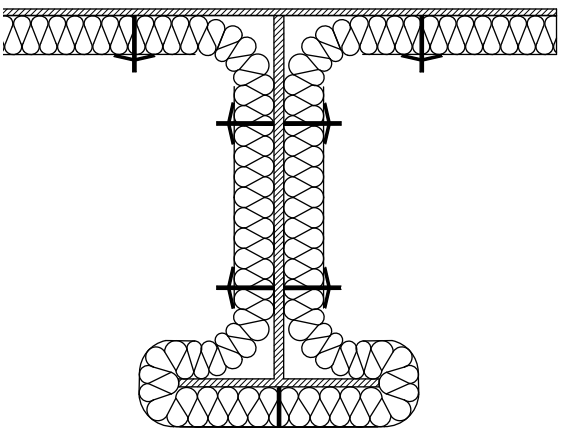


FIRE SIDE

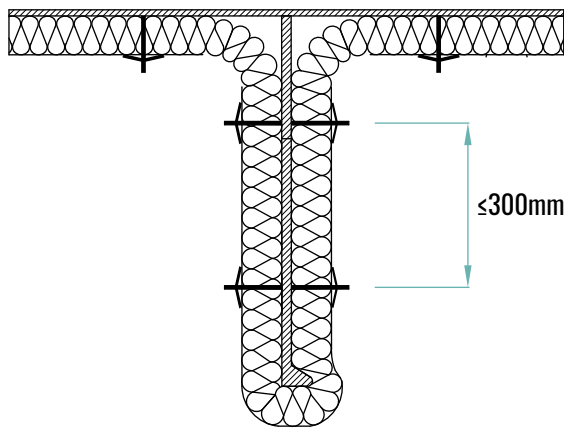


< 300 mm

FIRE SIDE



FIRE SIDE

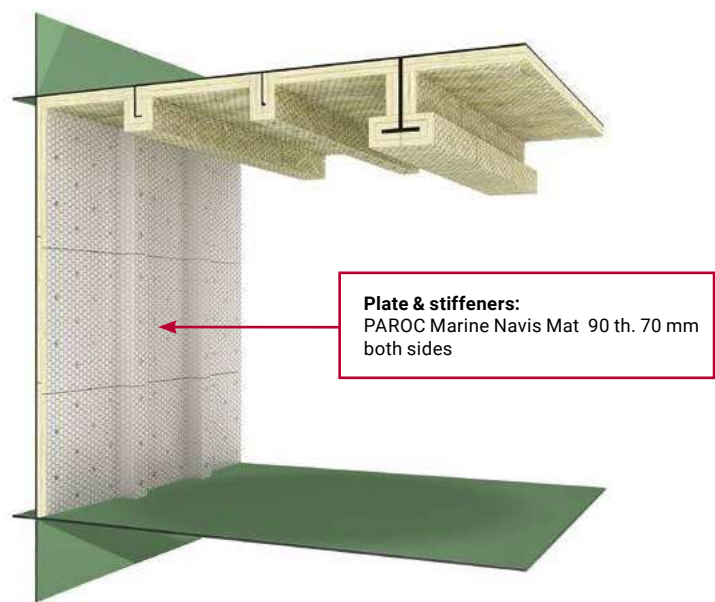


≤ 300mm

FIRE SIDE

A60 ALUMINUM BULKHEAD 4 mm PLATE PAROC MARINE NAVIS MAT 90 kg/m³ SOLUTION

B8.1



EASY
SYSTEM



FAST
INSTALLATION



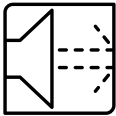
1 PRODUCTS
FOR SOLUTION



λ 0,039 W/mK



A60



41 dB

PAROC MARINE NAVIS MAT CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m³	W/mK
PAROC Marine Navis Mat/Wired Mat 90	90	0,039

Plate	Stiffeners

DECK 4 mm

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m²)	Sound Reduction
		Kg/m³ / mm	Kg/m³ / mm	plate / stiffeners	R _w (C,C _{tr})
B8.1	A60	60/70 both side	90/70	6,3+6,3 / 6,3	41 (-3,-8)

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

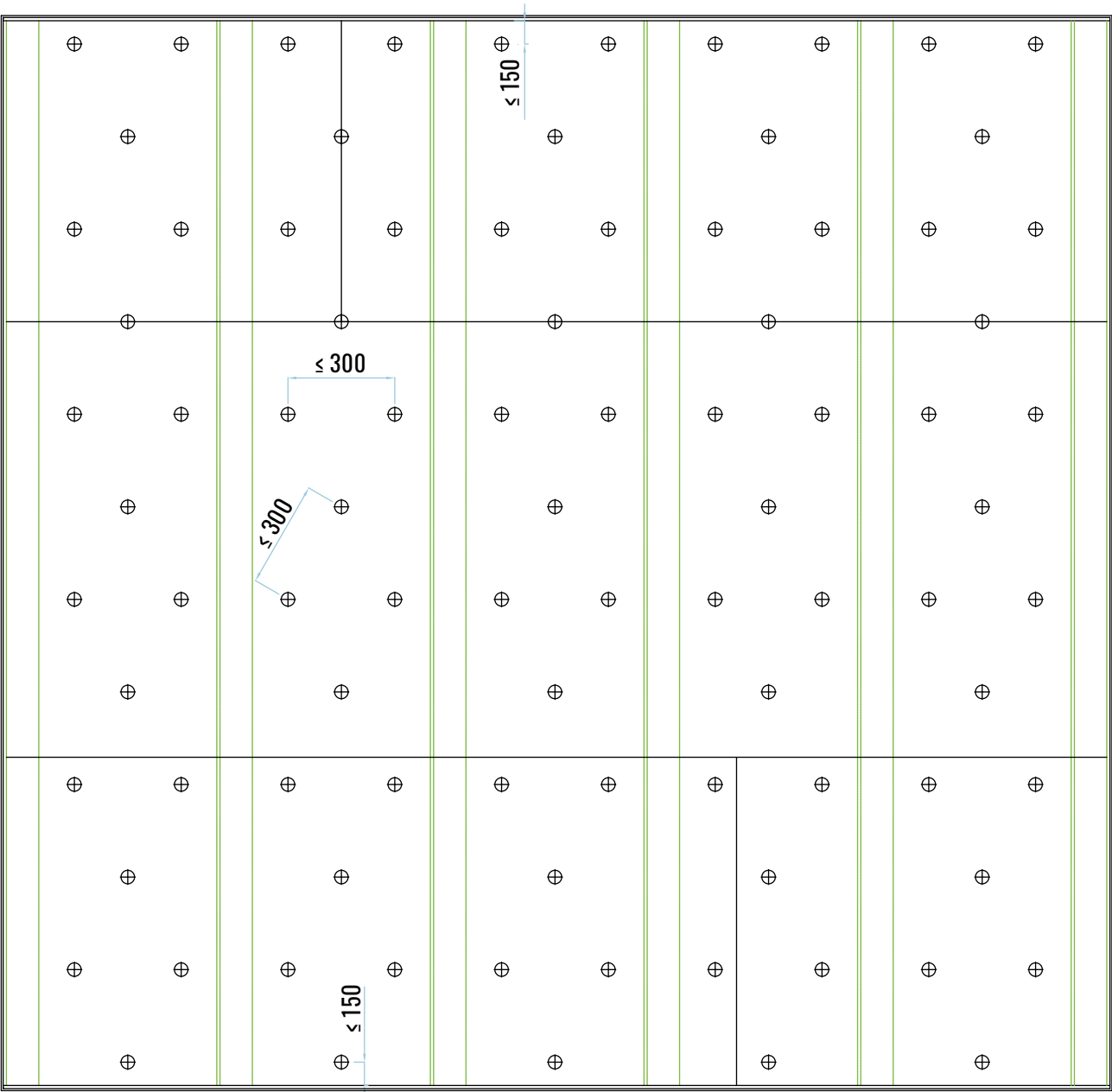
APPLICATION GUIDE – PIN PATTERN

B8.1



MATS

PLATE AND STIFFENERS: PAROC MARINE NAVIS MAT 90 TH. 70 mm
& PAROC MARINE NAVIS WIRED MAT 90 TH. 70 mm



Pin pattern is the same on both insulated side

Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

APPLICATION GUIDE – ALL INSULATION ON STIFFENERS

B8.1

ALTERNATIVE METHODS

< 300 mm

< 100 mm

FIRE SIDE

1 PRODUCTS
PER SOLUTION

MATS

Plate and Stiffeners:

PAROC Marine Navis Mat
90 th. 70 mm

PAROC Marine Navis Wired Mat
90 th. 70 mm

< 300 mm

FIRE SIDE

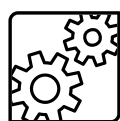
< 300 mm

FIRE SIDE

< 300 mm

FIRE SIDE

FLOATING FLOOR SYSTEMS – STEEL DECK



**EASY
SYSTEM**



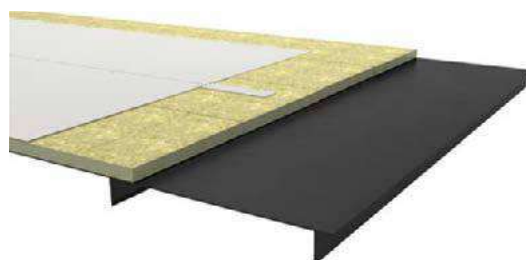
**FAST
INSTALLATION**



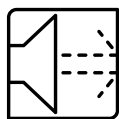
**LESS TOTAL
PRODUCTS
FOR A PROJECT**



SLAB



**FIREPROOFING
PERFORMANCE**



**ACOUSTICS
PERFORMANCE**



**THERMAL
INSULATION
PERFORMANCE**

CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Floor Slab 140	140	0,035
PAROC Marine Slab 220	220	0,037

DECK

n°	Class	Insulation on PLATE (Density / Thickness)	Insulation on STIFFENERS (Density / Thickness)	Weight (Kg/m ²)	Sound Reduction
		Kg/m ³ / mm	Kg/m ³ / mm	plate / stiffeners	R _w (C, C _{tr})
F1.1	A60	140/50	NOT REQUIRED	7,0 / 0	52 (-3,-8)
F1.2	A60	220/25+25	NOT REQUIRED	11,0 / 0	52 (-2,-7)

COMPRESSIVE STRESS AT 10% DEFORMATION

Material	Density	CS(10) σ10
	Kg/m ³	kPa
PAROC Marine Floor Slab 140	140	30
PAROC Marine Slab 220	220	50

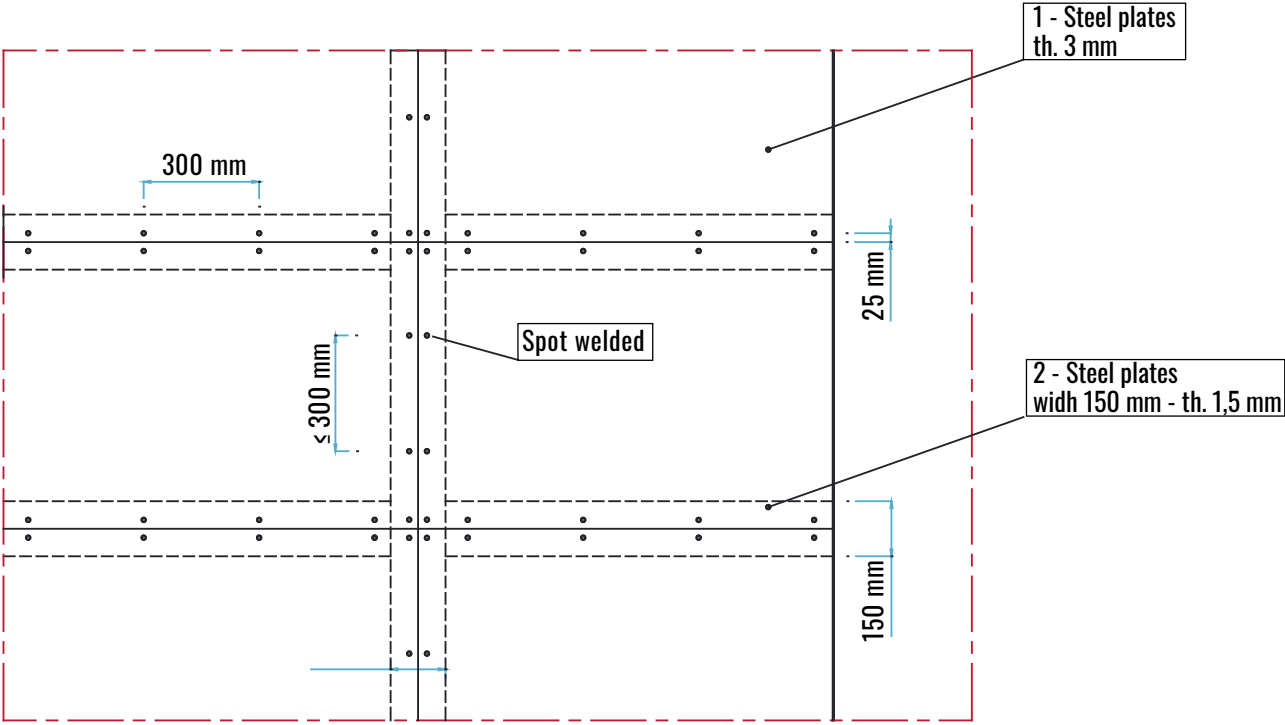
About Sound Performance:

The Impact sound reduction is a complicated value to calculate and providing results for a simplified setup do not give any benefit, because all deck-constructions are different and even small variation can have a big impact on the final result.

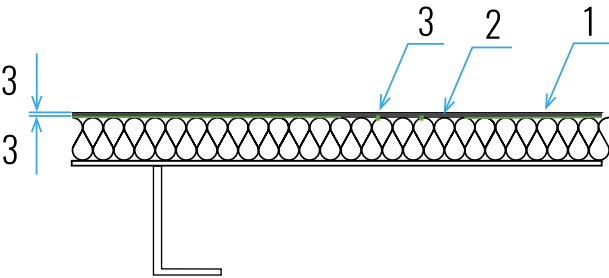
Please contact PAROC and we can assist with basic information or guidance to support with either basic data or proposal how to test.

FLOATING FLOOR – A60 STEEL DECK 140 kg/m³

F1.1



PAROC MARINE FLOOR SLAB 140, THICKNESS 50 mm



3	Welded	Every 300 mm
2	Steel plate	Thickness 1,5 mm
1	Steel plate	Thickness 3 mm

Note:

Welding per 300 mm will not affect the performance of the insulation.

PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

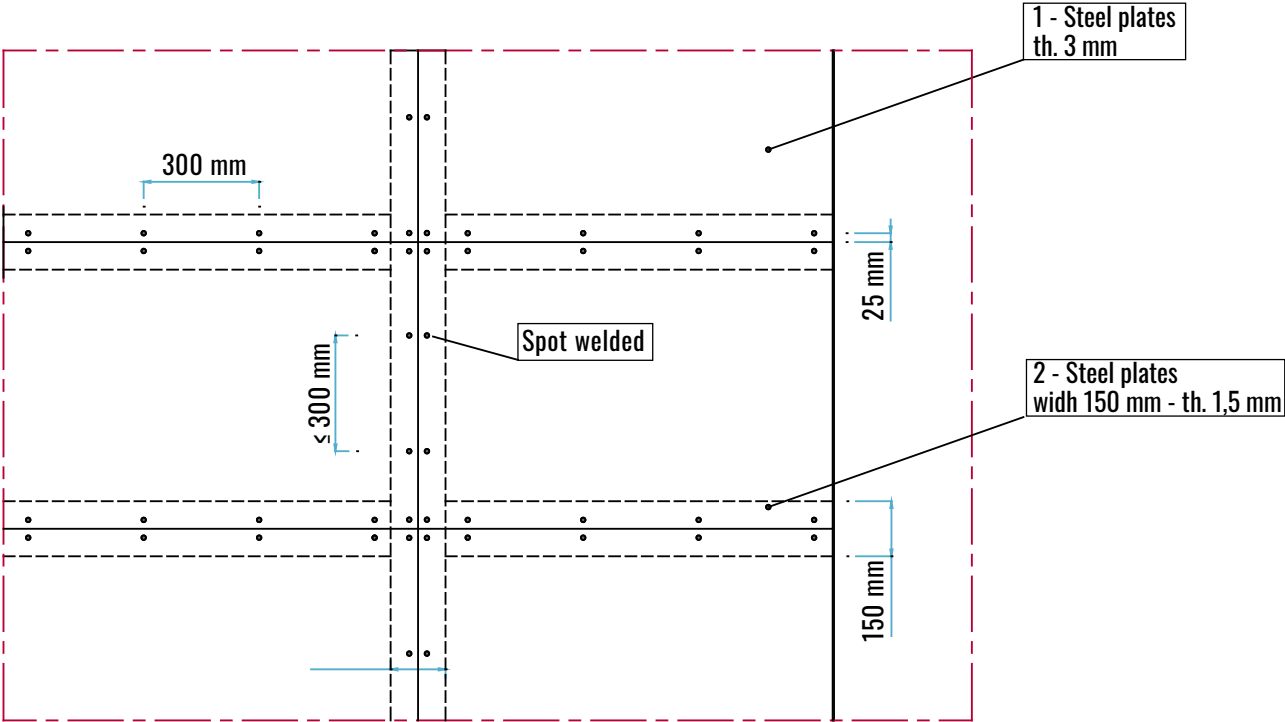
FLOATING FLOOR

CORRUGATED SOLUTION

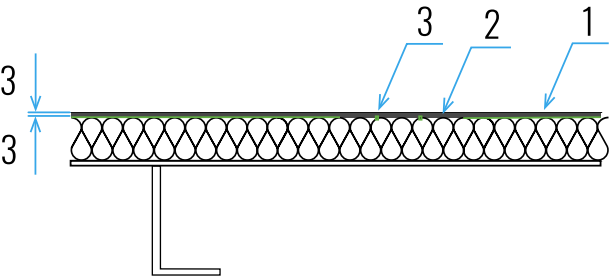
CONTACT

FLOATING FLOOR – A60 STEEL DECK 220 kg/m³

F1.2



PAROC MARINE SLAB 220, THICKNESS 25 + 25 mm

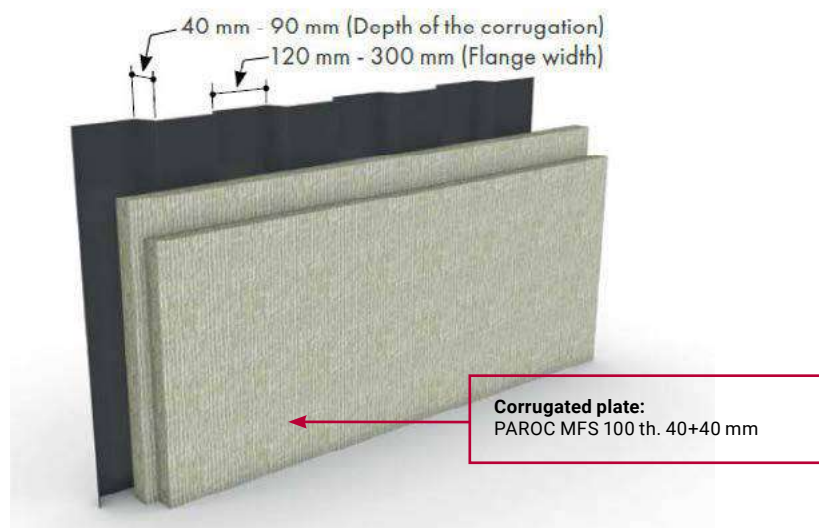


3	Welded	Every 300 mm; 50% of the joints
2	Steel plate	Thickness 1,5 mm
1	Steel plate	Thickness 3 mm

Note:

Welding per 300 mm will not affect the performance of the insulation.

A60 STEEL CORRUGATED BULKHEAD – PAROC MFS 100 kg/m³ SOLUTION

C1.1

**1 PRODUCTS
FOR SOLUTION**

λ 0,035

A60

PAROC MARINE FIRE SLAB CHARACTERISTICS

Material	Density	Thermal Conductivity
	Kg/m ³	W/mK
PAROC Marine Fire Slab 100	100	0,035

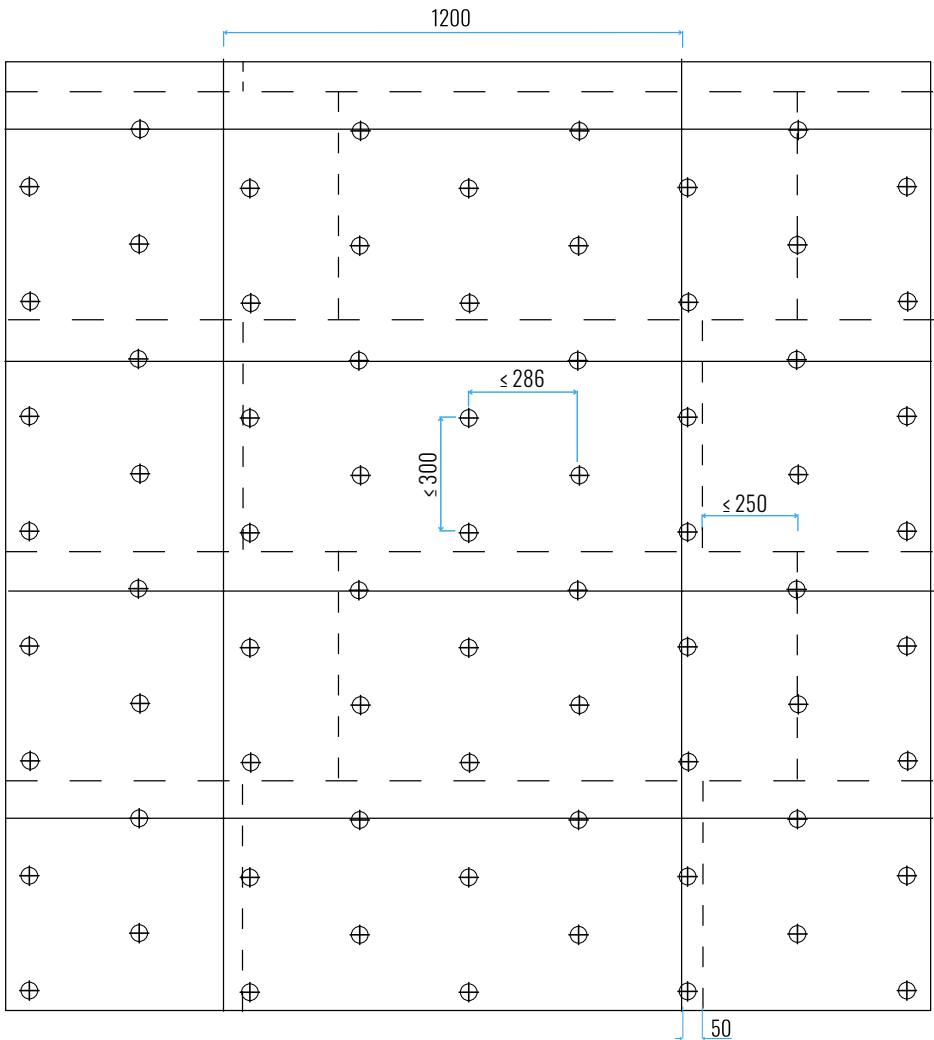
Slab


BULKHEAD

n°	Class	Insulation on PLATE (Density / Thickness)	Weight (Kg/m ²)
		Kg/m ³ / mm	plate
C1.1	A60	100/40+40	8,0

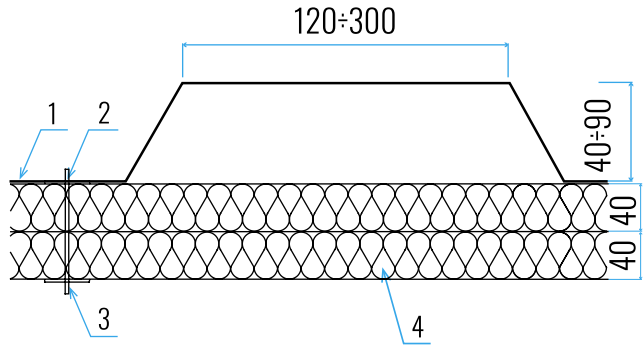
APPLICATION GUIDE – PIN PATTERN

C1.1



Pins: Ø 2,7-5 mm
Washers: Ø ≥ 30 mm

N° Pins on top flange of corrugation ≥ 12 / sqm
Joints between two layer must be offset ≥ 120 mm on both direction



Corrugated steel thickness ≥ 2 mm

PAROC MARINE NAVIS SOLUTIONS
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PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

CONTACT

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ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

CONTACT US

- PAROC Headquarter
- Factory/Subsidiary
- ▲ Sales office



PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

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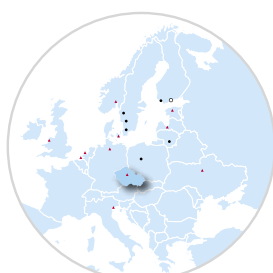
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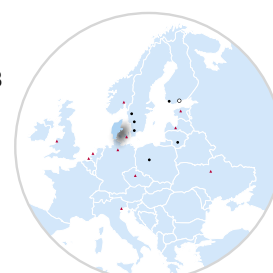
Czech Republic

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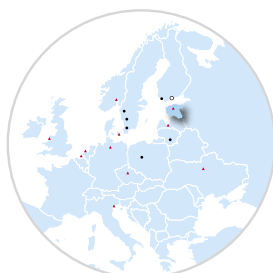
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PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

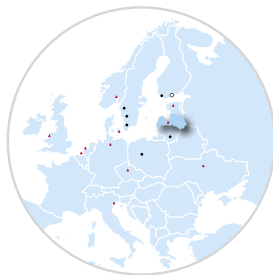
FLOATING FLOOR

CORRUGATED SOLUTION

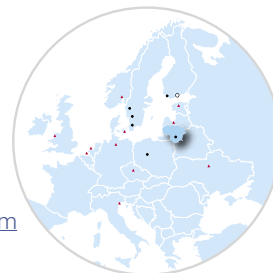
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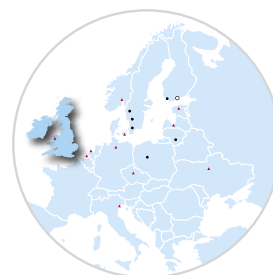
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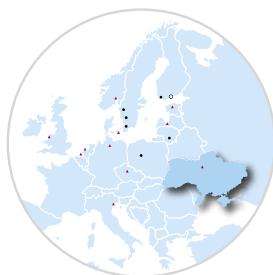
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PAROC MARINE NAVIS SOLUTIONS
ON STEEL DECK & BULKHEAD

PAROC MARINE 100 kg/m³ SOLUTIONS
ON STEEL DECK & BULKHEAD

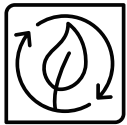
PAROC MARINE NAVIS SOLUTIONS
ON ALUMINIUM DECK & BULKHEAD

FLOATING FLOOR

CORRUGATED SOLUTION

CONTACT

CONTACT	PAROC MARINE NAVIS SOLUTIONS ON STEEL DECK & BULKHEAD
CORRUGATED SOLUTION	PAROC MARINE 100 kg/m ³ SOLUTIONS ON STEEL DECK & BULKHEAD
FLOATING FLOOR	PAROC MARINE NAVIS SOLUTIONS ON ALUMINIUM DECK & BULKHEAD



DURABLE

PAROC® stands for energy-efficient and fire safe insulation solutions of stone wool for new and renovated buildings, marine and offshore, acoustics and other industrial applications. Behind those products, there is an 80-year history of stone wool production knowhow backed with technical insulation expertise and innovation.



REUSABLE

Building Insulation offering covers a wide range of products and solutions for all traditional building insulation. The building insulation products are mainly used for the thermal, fire and sound insulation of exterior walls, roofs, floors and basements, intermediate floors and partitions. Sound absorbing ceilings and wall panels for interior acoustic control, as well as industrial noise control products, are available in the range.



**SOUND
REDUCING**

Technical Insulation offering includes thermal, fire and sound insulation in HVAC systems, industrial processes and pipework, industrial equipment as well as shipbuilding and offshore industry.



FIRE PROOF

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**MOISTURE
PROOF**



SAFE



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EFFICIENT**

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