



SUMAR S.I.
SUMINISTROS INDUSTRIALES Y NAVALES

Class A-60 Door



It is used on Class A-60 bulkheads.

Technical Characteristics of Class A-60 Door



Fire Class : A-60



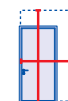
Thickness : 77 mm



Standart Width (Clear Opening) : 700 mm



Standart Length (Clear Opening) : 1900 mm



Manufacturable Length (Maximum) : 800 x 1.900 mm



Surface Steel Sheet Thickness : 1,00 mm



Door Leaf Surface : GLV, SS



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 200 kg/m³



Weight : ~91 kg/pc (700 x 1900 mm)



Application : It is mounted to bulkhead



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

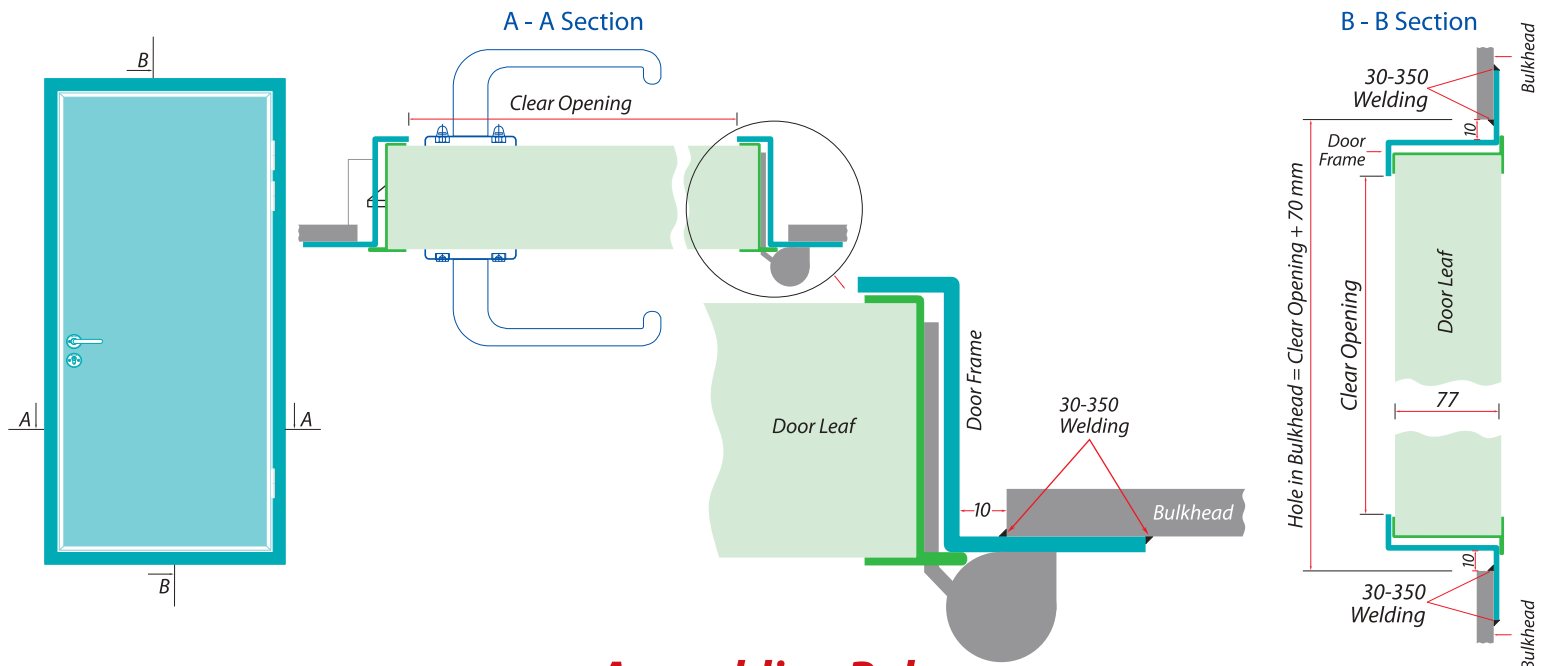


Bureau Veritas



MED Marine Equipment Directive (EC)

Assembling of Class A-60 Doors



Assembling Rules

- Check hole in bulkhead whether "clear opening + 70 mm" or not.
- Check steel surfaces whether are in the same plane or not.
- Check before door frames set square.
- Put door frame to hole in bulkhead.
- Spot weld frame to bulkhead where the frames hinged side below and upper parts.
- Measure frame middle and check whether the same with below and upper parts.
- Spot weld the frame where both long sides middle parts.
- Fasten door leaf and check it is working good conditions or not.
- Please check distance between door leaf and door frame and fitted well or not each other.
- Weld the frame to the bulkhead from one side along with 350 mm intervals and keep welding length is 30 mm.
- Check again door leaf is working in good conditions or not.
- Please check again whether distance door leaf and door frame is regular or not.
- Weld the frame to the bulkhead from the other side along with 350 mm intervals and welding length is 30 mm.
- Please carry out your final controls.
- Mounting operations has been completed.

Advantages of Class A-60 Doors



Fast and easy assembling.



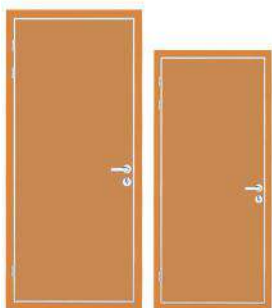
Door frames are "Z" shaped and coated with electrostatic dry powder painting.



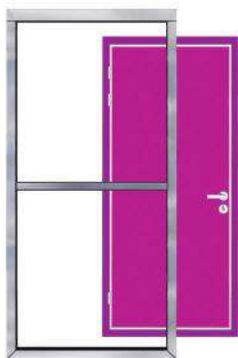
Locks are protected inside with box shaped steel.



Galvanized steel surfaces can be paint the color as you wish.



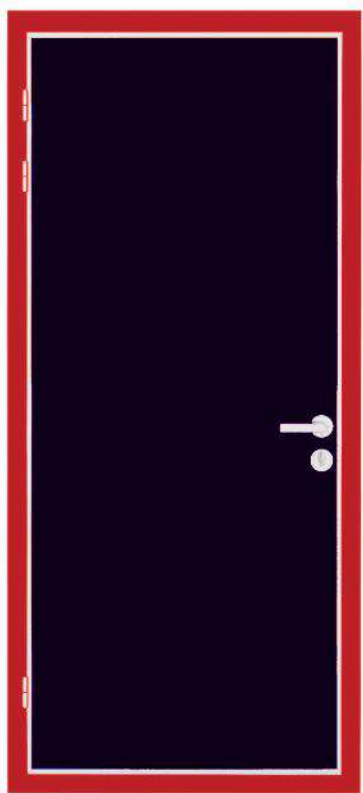
Standart dimensions manufacturing. Available to produce required dimensions.



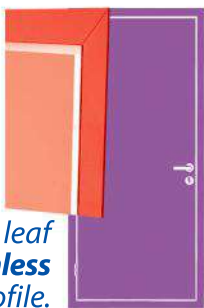
Door leaf supported strong skelton.



Door leaf ends are projected.



The lines of door leaf ends sourrounded stainless steel "U" shaped profile.



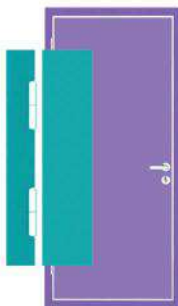
No hanging down. Three hinges.



Hinges are produces from stainless steel materials.



Hinges areas are supported from inside of door frame.



Handles and rosettes are completely stainless steel.





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Class B-15 Door



*It is used on Class
B-15 partition panels.*

Technical Characteristics of Class B-15 Doors



Fire Class : B-15



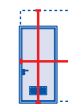
Thickness : 42 mm



Standart Width (Clear Opening) : 700 mm



Standart Length (Clear Opening) : 1900 mm



Manufacturable Length (Clear Opening).... : 850 x 1750 mm
800 x 1900 mm
700 x 2000 mm



Surface Steel Sheet Thickness : 0,6 mm



Door Leaf Surface : PVC, GLV, SS



PVC Film : PVC film has “low flame spread” certificate



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 130 kg/m³



Weight : ~59 kg/pc (700 x 1900 mm)



Application : It is mounted to Class B-15 partition panel



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

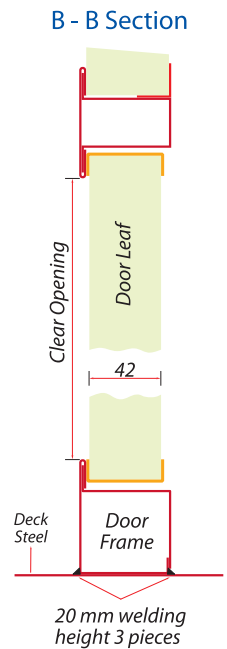
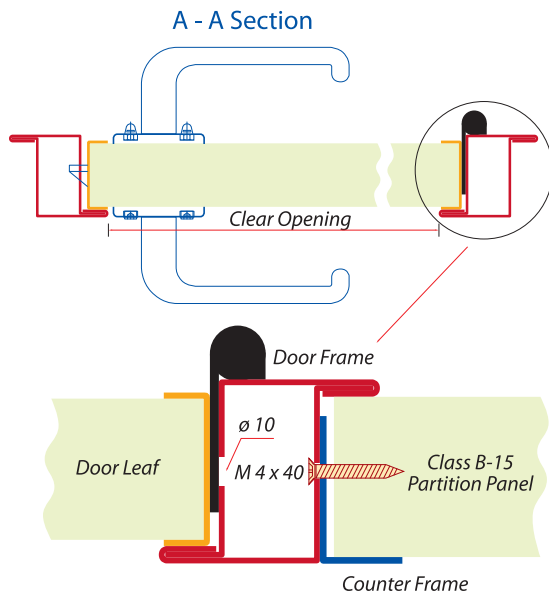
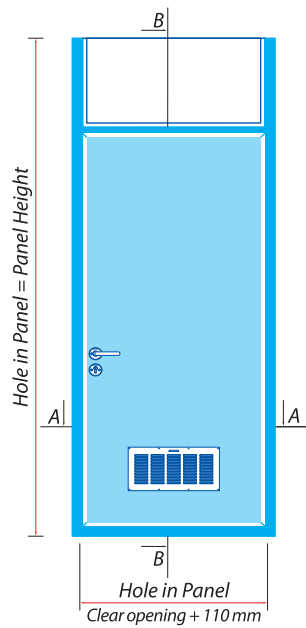


Bureau Veritas

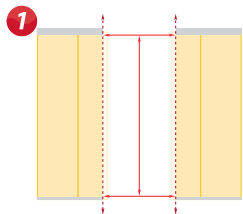


MED Marine Equipment Directive (EC)

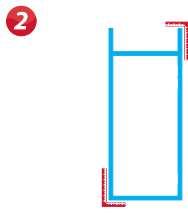
Assembling of Class B-15 Doors



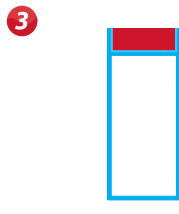
Assembling Rules



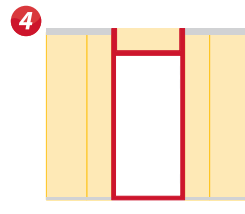
Please check whether panels out correct measurement and hole in panels is in the straight plane.



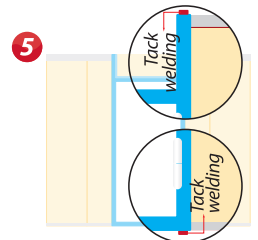
Check before door frames set square.



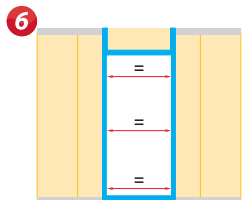
Put piece of panel.



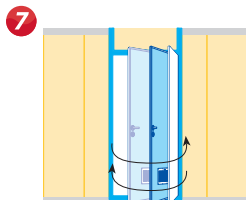
Put door frame to hole in panel.



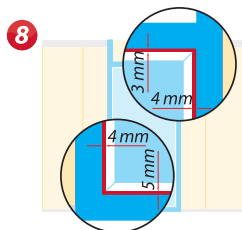
Tack weld below and upper parts of frame from hinged side to deck.



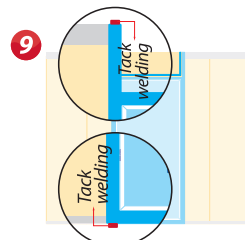
Measure frame middle and check whether the same with below and upper parts.



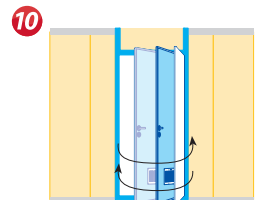
Fasten door leaf and check it is working good conditions or not.



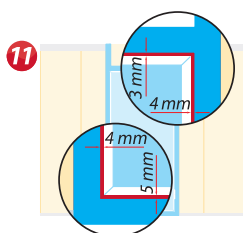
Please check distance between door leaf and door frame and fitted well or not each other.



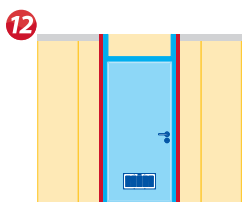
Tack weld below and upper parts of frame from lock-handle side to deck.



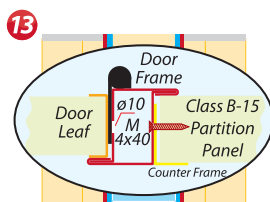
Check again door leaf is working in good conditions or not.



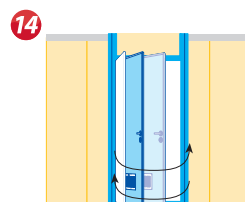
Please check again whether distance door leaf and door frame is regular or not.



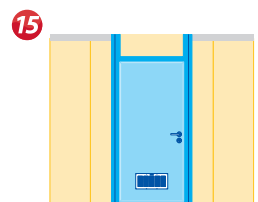
If everthing is OK, mount counter frames.



To screw door frame from fittings holes to counter frames by getting every connection of frame, counter frame and panel are well and tight.



Please carry out your final controls.



Mounting operations has been completed.

Advantages of Class B-15 Doors



Fast and easy assembling.



Door frames are **box shaped profile** and coated with electrostatic dry powder painting.



Locks are **protected inside with box shaped steel.**



Plenty of **color choice.**



Standart length manufacturing. **Available** to produce required dimensions.



Door leaf supported **strong skelton.**



PVC surface are covered with a **protective film** against dirty and straching.



Handles and rosettes are completely **stainless steel.**

No hanging down. **Three hinges.**



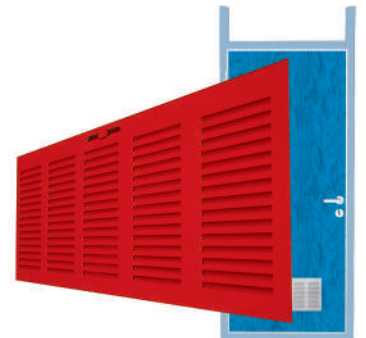
Hinges are produces from **stainless steel** materials and **unike part.**



Hinges areas are **supported** from inside of door frame.



Ventilotion grill use on standart models.





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Class A-15 Door



It is used on Class A-0/A-15 bulkheads.

Technical Characteristics of Class A-15 Door



Fire Class : A-15



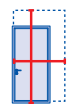
Thickness : 42 mm



Standart Width (Clear Opening) : 700 mm



Standart Length (Clear Opening) : 1900 mm



Manufacturable Length (Clear Opening).... : 900 x 1600 mm
800 x 1800 mm
700 x 2000 mm



Surface Steel Sheet Thickness : 1,00 mm



Door Leaf Surface : GLV, SS



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 130 kg/m³



Weight : ~59 kg/ad (700 x 1900 mm)



Application : It is mounted to bulkhead



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

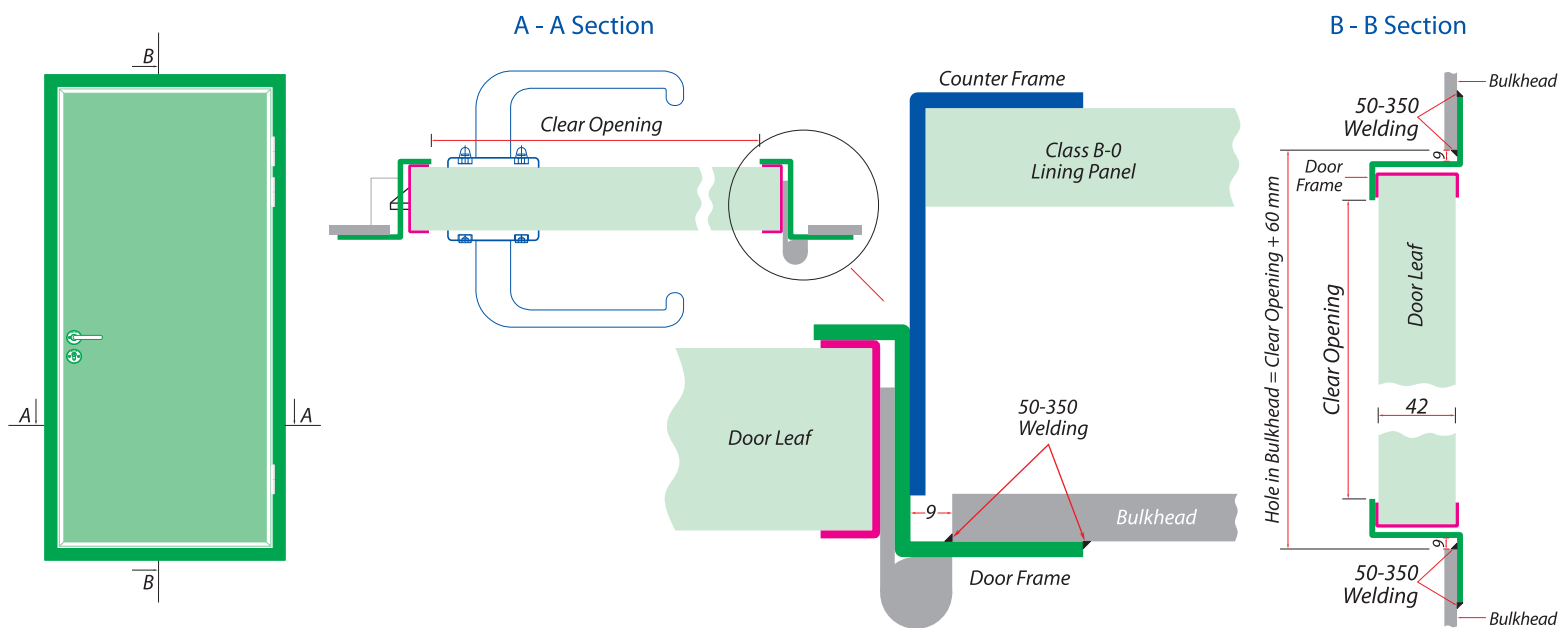


Bureau Veritas

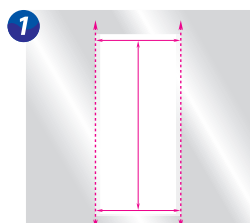


MED Marine Equipment Directive (EC)

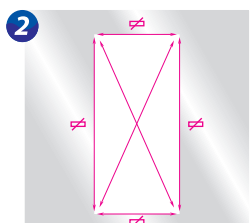
Assembling of Class A-15 Doors



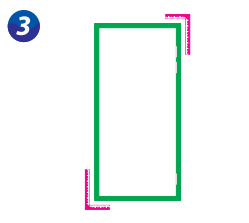
Assembling Rules



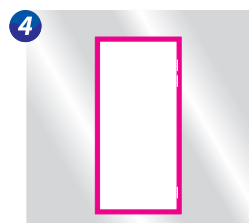
Check hole in bulkhead whether "clear opening + 60 mm" or not.



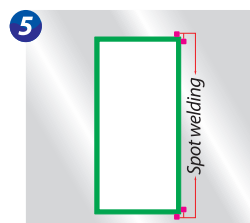
Check steel surfaces whether are in the same plane or not.



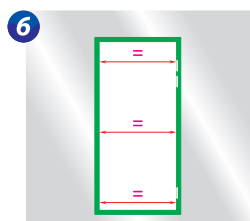
Check before door
frames set square.



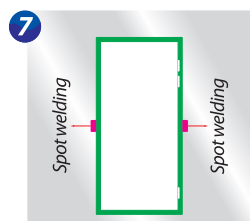
Put door frame to
hole in bulkhead.



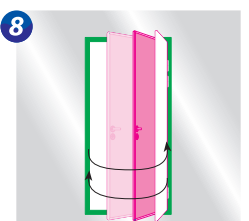
Spot weld frame to bulkhead where the frames hinged side below and upper parts.



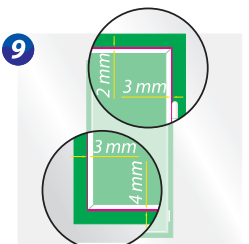
Measure frame middle
and check whether
the same with below
and upper parts.



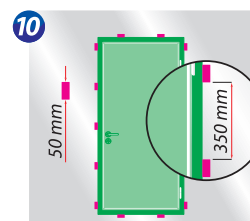
*Spot weld the frame
where both long sides
middle parts.*



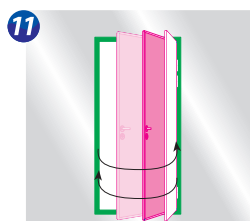
*Fasten door leaf and
check it is working
good conditions or not.*



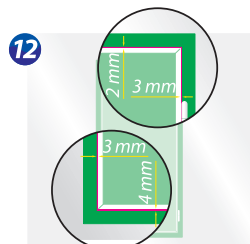
*Please check distance
between door leaf and
door frame and fitted well
or not each other.*



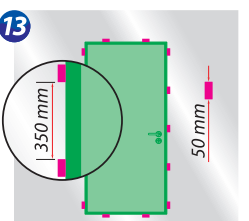
Weld the frame to the bulkhead from one side alongwith 350 mm intervals and keep welding length is 50 mm.



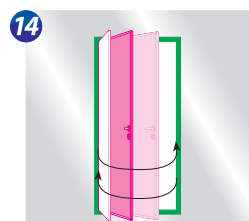
Check again door leaf
is working in good
conditions or not.



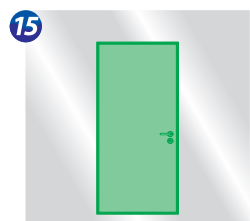
Please check again whether distance door leaf and door frame is regular or not.



Weld the frame to the bulkhead from the other side alongwith 350 mm intervals and welding length is 50 mm.



Please carry out
your final controls.



Mounting operations
has been completed.

Advantages of Class A-15 Doors



Fast and easy assembling.



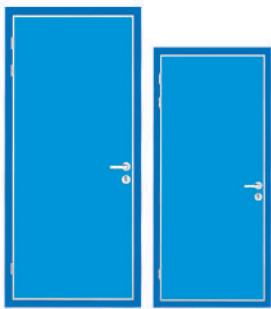
Door frames are "Z" shaped and coated with electrostatic dry powder painting.



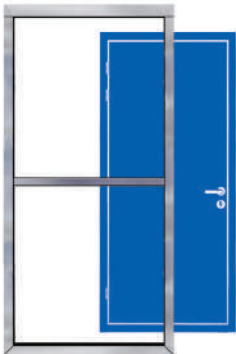
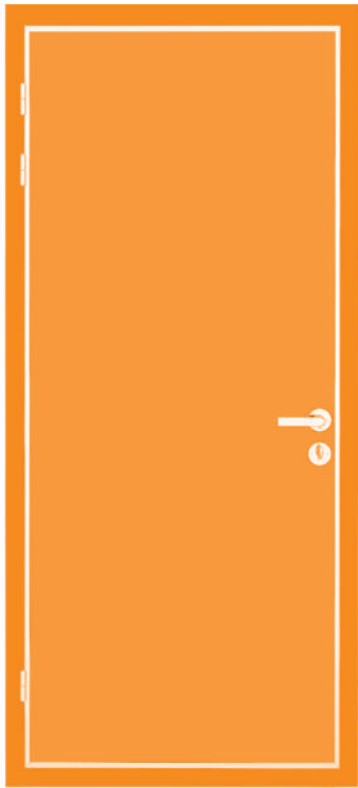
Locks are protected inside with box shaped steel.



Galvanized steel surfaces can be paint the color as you wish.



Standart dimensions manufacturing. Available to produce required dimensions.



Door leaf supported strong skelton.

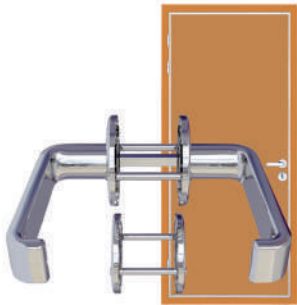
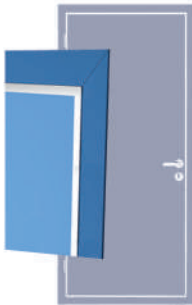
No hanging down. Three hinges.

Hinges are produces from stainless steel materials and unique part.

The lines of door leaf ends surrounded stainless steel "U" shaped profile.

Hinges areas are supported from inside of door frame.

Handles and rosettes are completely stainless steel.



Class C Type Door



Usable for panel and bulkhead.

Technical Characteristics of Class C Type Doors



Fire Class : C



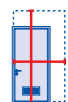
Thickness : 32 mm



Standard Width (Clear Opening) : 700 mm



Standard Length (Clear Opening) : 1900 mm



Manufacturable Length (Clear Opening)... : 800 x 2000 mm



Surface Steel Sheet : 0,6 mm



Door Leaf Surface : PVC, GLV, PSL



PVC Film : PVC film has “low flame spread” certificate.



Insulation Materials : Mineralwool - Rockwool / Denmark
(Certified non-combustible material)



Density of Rockwool : 130 kg/m³



Weight (For Standard Dimensions) : ~ Hollow profile frame: 50 kg/pcs
~ Z shaped profile frame: 42 kg/pcs



Application : It is mounted to bulkhead and panel.



Certificate [IMO Resolution A.754(18)] :  TC Undersecretariat Certificate

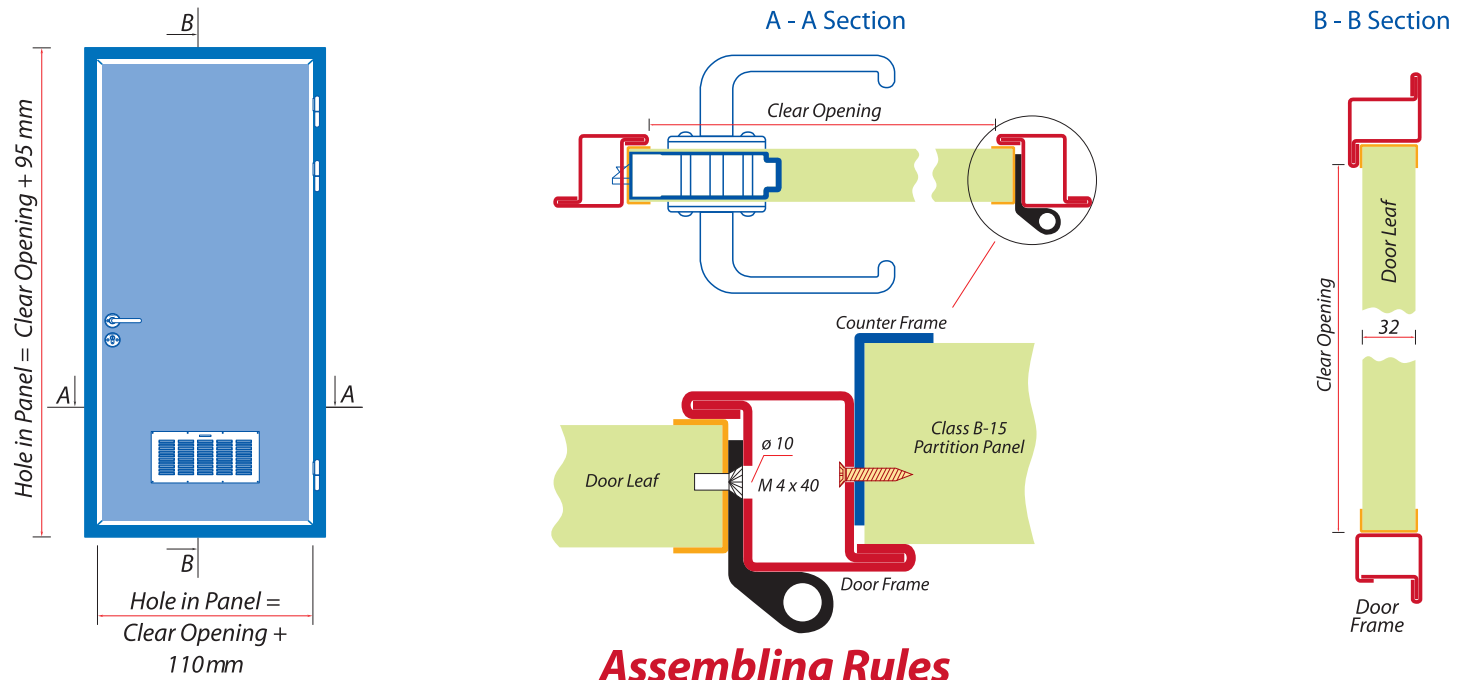


Bureau Veritas



MED Marine Equipment Directive (EC)

Assembling of Class C Type Door to Panel



Assembling Rules

- 1

Please check whether panels out correct measurement.
- 2

Check before door frames set square.
- 3

Put door frame to hole in panel.
- 4

Put counter frame compatible with door frame.
- 5

Screw on door frame with/ from assembly hole to counter frame by providing tightly connection between door frame and counter frame.
- 6

Measure frame middle and check whether same with below and upper parts.
- 7

Fasten door leaf and check it is working good conditions or not.
- 8

Please check distance between door leaf and door frame and fitted well or not each other.
- 9

Please check again door leaf is working in good conditions or not.
- 10

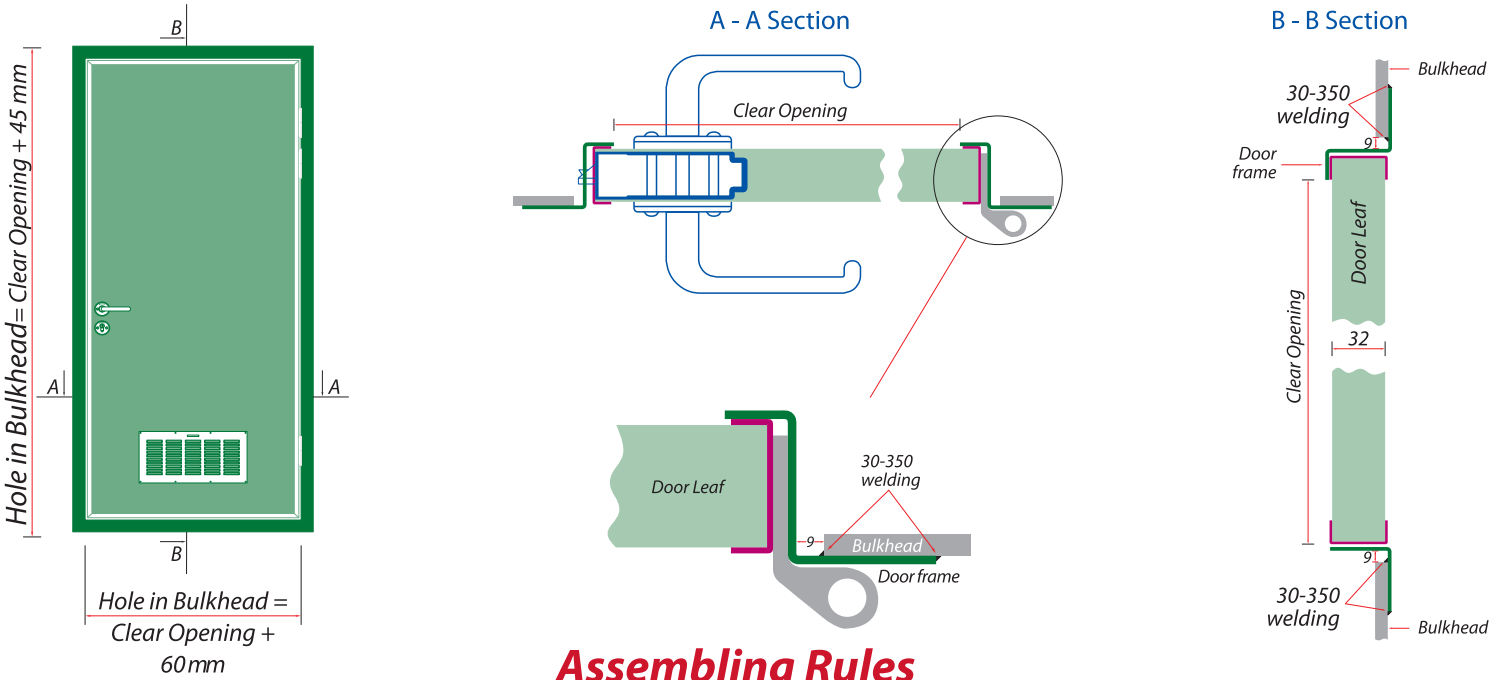
Please check again distance between door leaf and frame.
- 11

Please carry out your final controls.
- 12

Mounting operation has been completed.

Same assembling rules are applied for the double leaf doors.

Assembling of Class C Type Door to Bulkhead



Assembling Rules

- 1

Please check whether bulkhead out correct measurement.
- 2

Check steel surfaces whether are in the same plane or not.
- 3

Check before door frames set square.
- 4

Put door frame to hole in bulkhead.
- 5

Spot weld frame to bulkhead where the frames hinged side below and upper parts.
- 6

Measure frame middle and check whether same with below and upper parts.
- 7

Spot weld the frame where both long sides middle parts.
- 8

Fasten door leaf and check it is working good conditions or not.
- 9

Please check distance between door leaf and door frame and fitted well or not.
- 10

Weld the frame to the bulkhead from one side along with 350 mm intervals and keep welding lenght is 30 mm.
- 11

Check again door leaf is working in good conditions or not.
- 12

Please check again whether distance door leaf and door frame regular or not.
- 13

Weld the frame to the bulkhead from the other side along with 350 mm intervals and welding lenght is 30 mm.
- 14

Please carry out your final controls.
- 15

Mounting operation has been completed.

Same assembling rules are applied for the double leaf doors.

Advantages of Class C Type Door



Fast and easy assembling.



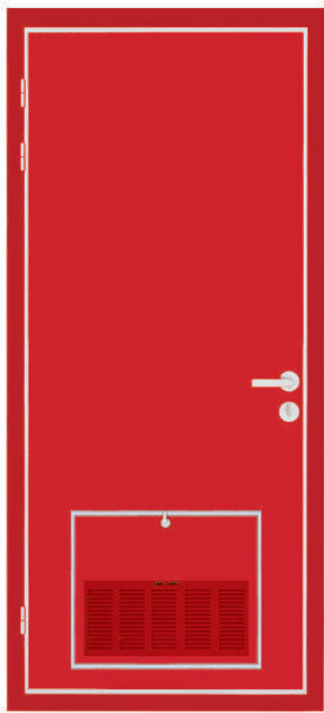
Handles and rosettes are completely stainless steel.



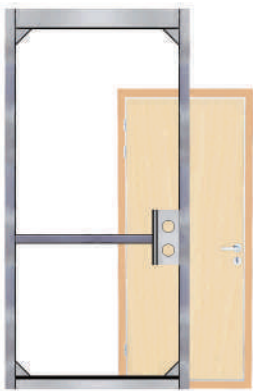
Plenty of color choice.



Standard length manufacturing. Available to produce required dimensions.



Producible with kick out panel.



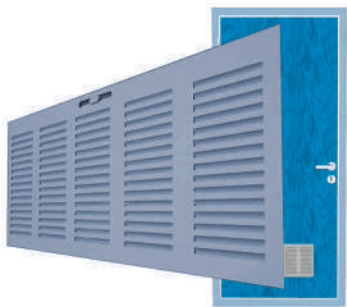
Door leaf supported strong skelton.



PVC surface are covered with a protective film against dirty and straching.



Door surface would be stainless steel, painted or covered PVC.



Producible with ventilation grill.

Advantages of Class C Type Door



Assembled to bulkhead with Z shaped profile frame.



Door frames coated with electrostatic dry powder painting.



Assembled to panel with hollow profile frame.



Locks are protected inside with box shaped steel.



Producible as double leaf.



Hinges are produced weldless as monolith by using pure stainless material.



No hanging down with three hinges.



The lines of door leaf ends surrounded stainless steel "U" shaped profile.



Hinges areas are supported from inside of door frame.



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Accessories



*Things that make life easier
and beautiful.*



Cabin Door Lock

Manufactured from pure stainless material handy, elegant and durable.



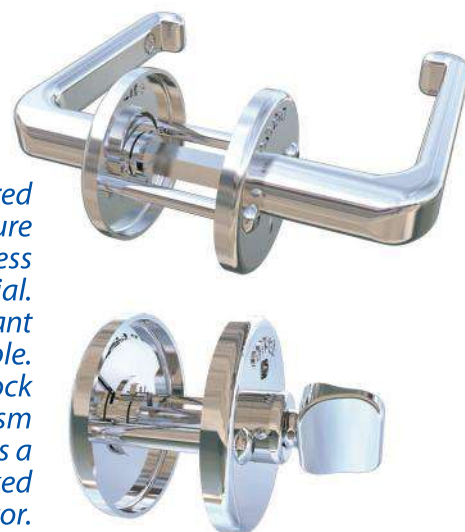
Door Handle and Elements

Locks are manufactured from pure stainless material. Moving system and parts are designed for a long life and proper functionality. Easily and smoothly crosses with its' specific lock bolt.



WC Door Lock

Manufactured from pure stainless material. Handy, elegant and durable. Lock mechanism has a open/locked indicator.



WC Door Handle and Elements



Lid Lock

Manufactured from pure stainless metarial. A special design for mariners. Very stylish, handy and durable.



Lid Handle and Elements



**Lid
Hinge**



**Stainless Steel
Glazed Door Hinge**

*Hinges are manufactured
weldless as monolith
by using pure
stainless material.
Durable, handy and lasting.*



**Class A-15/B15
Door Hinge**



**Class A-60
Door Hinge**



Manufactured from stainless material.

Louver for Wet Unit Doors

Manufactured from stainless or DKP plate painted with electrostatic powdered paint. Collapsible.



Louver for Cabin Doors



Manufactured from stainless material as monolith. Simple, lasting and durable.

Hanger

Manufactured from pure stainless material. Adjustable strenght of handling with springs.



Door Stopper

Manufactured form stainless material.



Louver for Ceilings

Designed to be used in wet areas. Manufactured from stainless material. IP55 Certificated.



Lighting Fixture



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Class A-60 Deck Panel

Floating Floor



*Heavy loading capacity and
high insulation ability.*



Technical Characteristics of Class A-60 Deck Panels



Fire Class : A-60



Thickness : 62 mm



Width : 300 mm (± 1 mm)



Length : 1000 mm (± 3 mm)



Steel Thickness : 2 mm



Finish Surface : Galvanized



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 200 kg/m³



Sound Reduction Ability *R_w* : Only panel 35 dB With deck steel 45 dB



Weight : 29,4 kg/m²

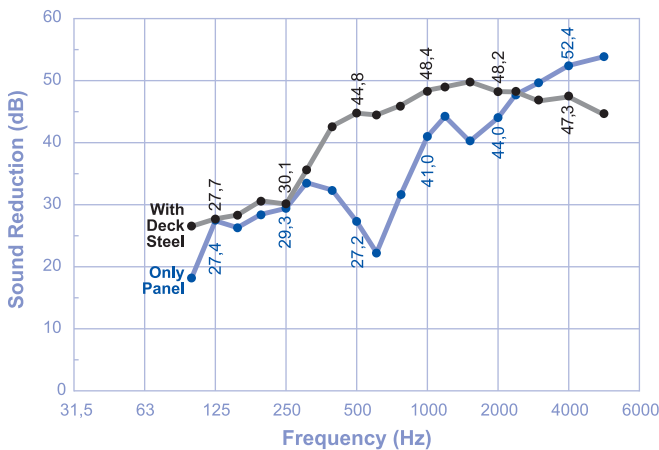


Application : Applies on top of deck steel where A-60 insulation required.



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram

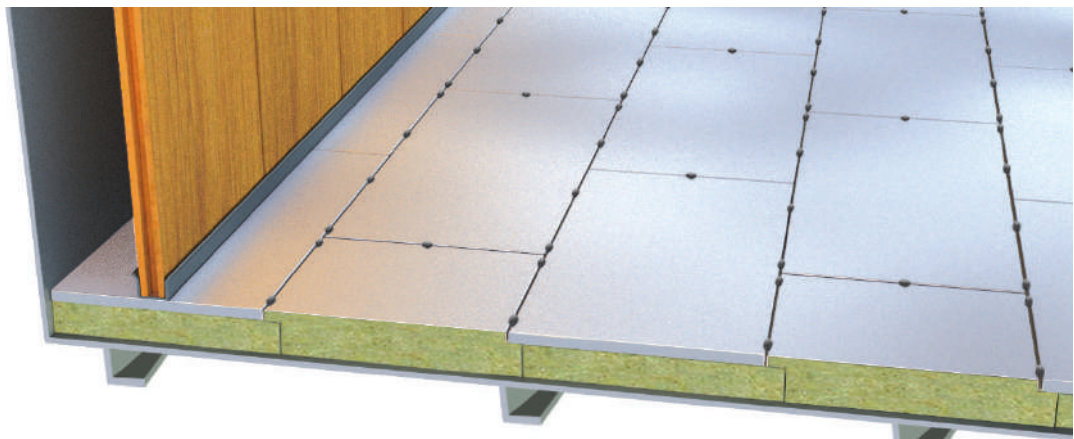
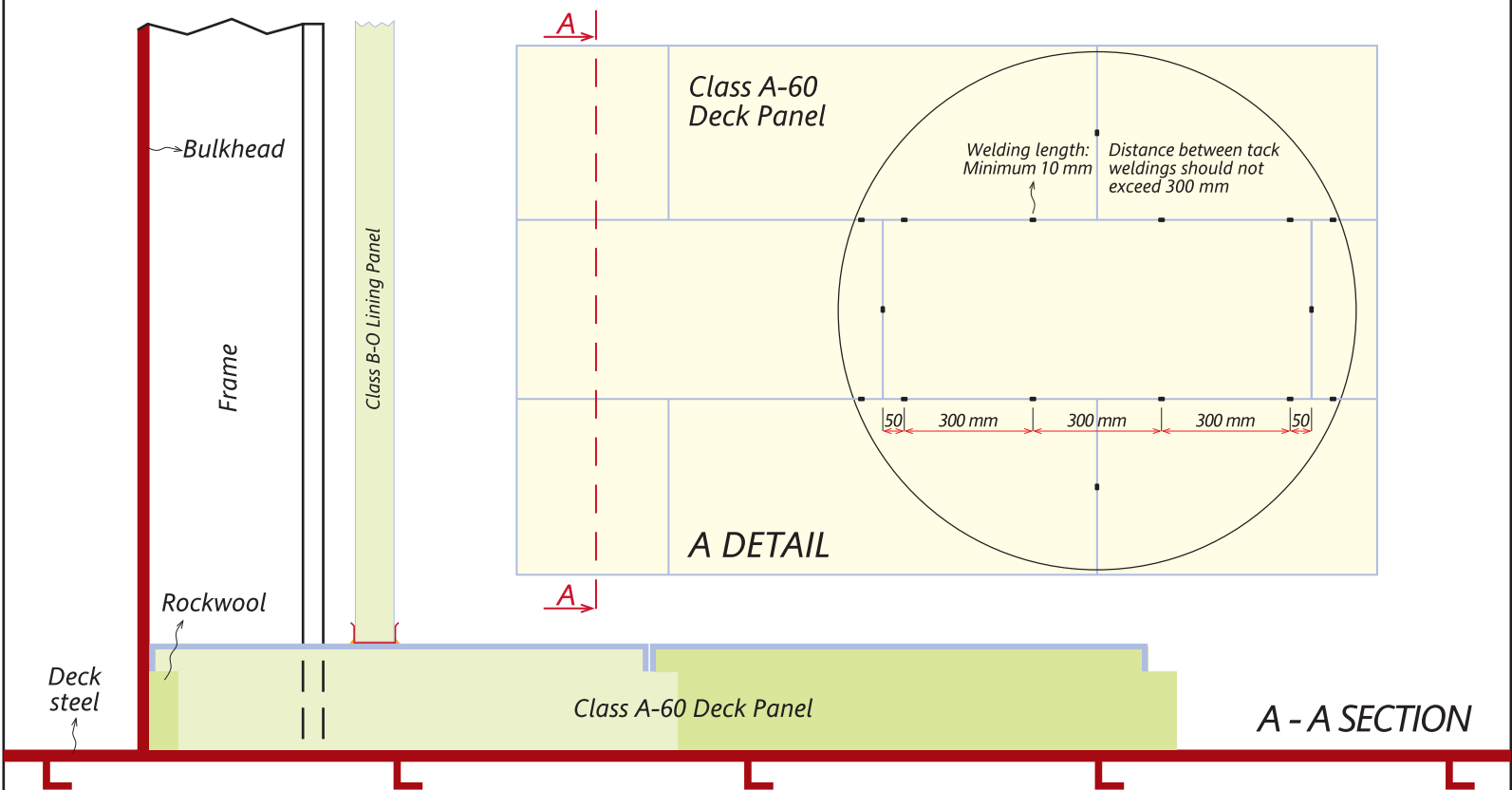


Bureau Veritas



MED Marine Equipment Directive (EC)

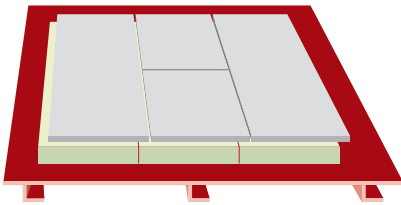
Assembling of A-60 Class Deck Panels



Assembling Rules

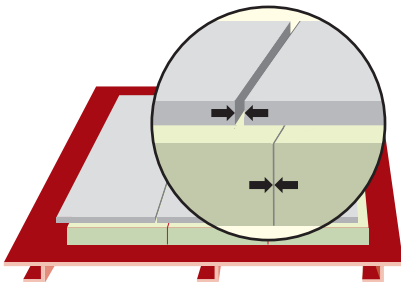


1- Deck steel should be straight.

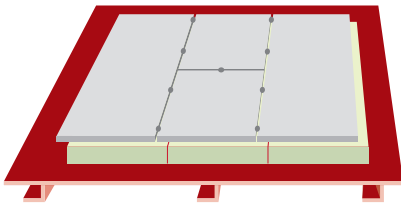


2- Rockwool side put into on top of deck steel like brick style.

3- Keep distance 2 ± 2 mm between steels and allows rockwool next to adhere each other



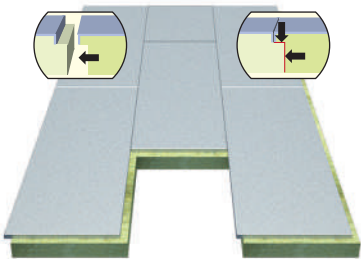
4- Steel plates to be connected each other with tack weldings.



Advantages of Class A-60 Deck Panels



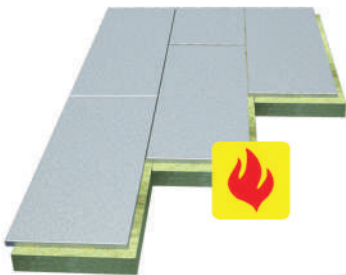
Fast and easy assembling.



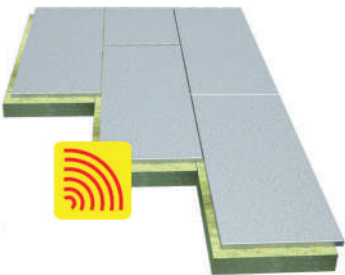
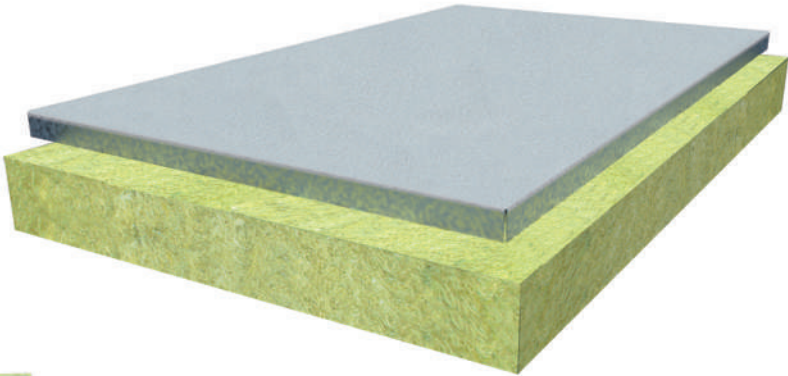
Ranked type connection (like stairs).



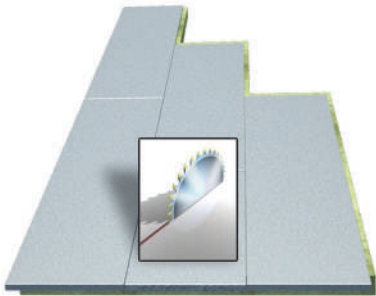
Heavy **loading** capacity.



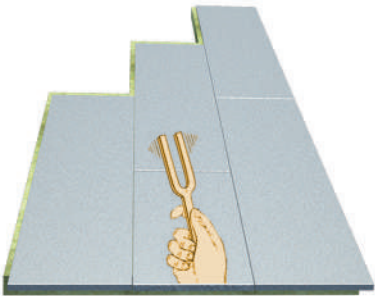
Much effective **fire insulation**.



Much effective **sound insulation**.



Available to **cut** when required.

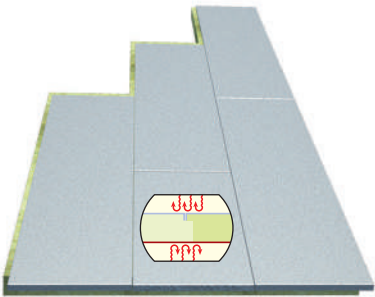
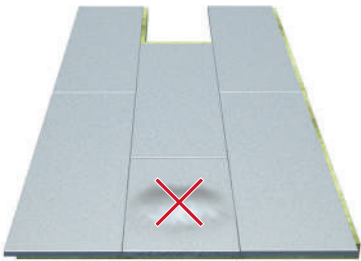
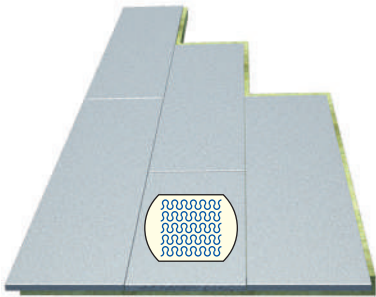


No noise when vibration.

High **density** of insulation material.

No wrinkle and rising

No fire conductivity between panel steel and deck steel.





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Class B-0 Ceiling Panel



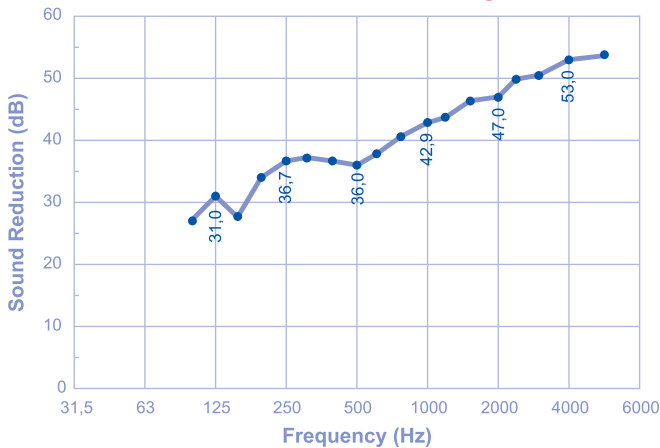
*Panels are fitted into each others.
Gives smooth surfaces.*



Technical Characteristics of Class B-0 Ceiling Panel

	Fire Class	B-0
	Thickness	30 mm
	Width	300 mm (± 1 mm)
	Standart Length	2400 mm (± 3 mm)
	Manufacturable Length	1000 ~ 2400 mm (± 3 mm)
	Steel Thickness	0,6 mm
	Finish Surface	PVC or SS or GLV
	PVC Film	PVC film has “low flame spread” certificate
	Insulation Materials	Mineral Wool - Rockwool / Denmark
	Density of Rockwool	110 kg/m ³
	Sound Reduction Ability Rw	With deck steel 42 dB
	Weight	9,2 kg/m ²
	Application	It is used as ceiling panel below deck steel
	Certificate [IMO Resolution A.754(18)]	 Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram

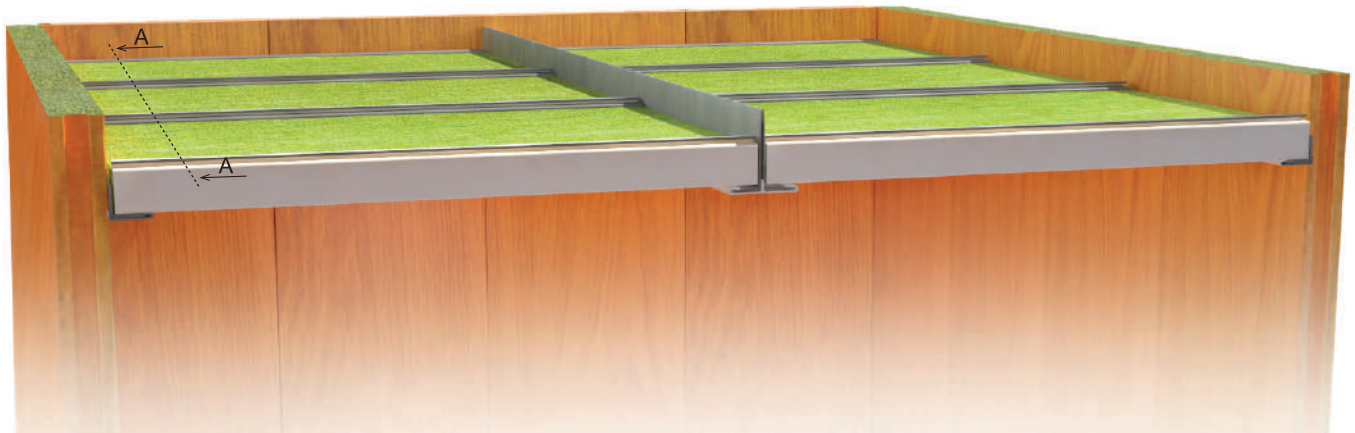
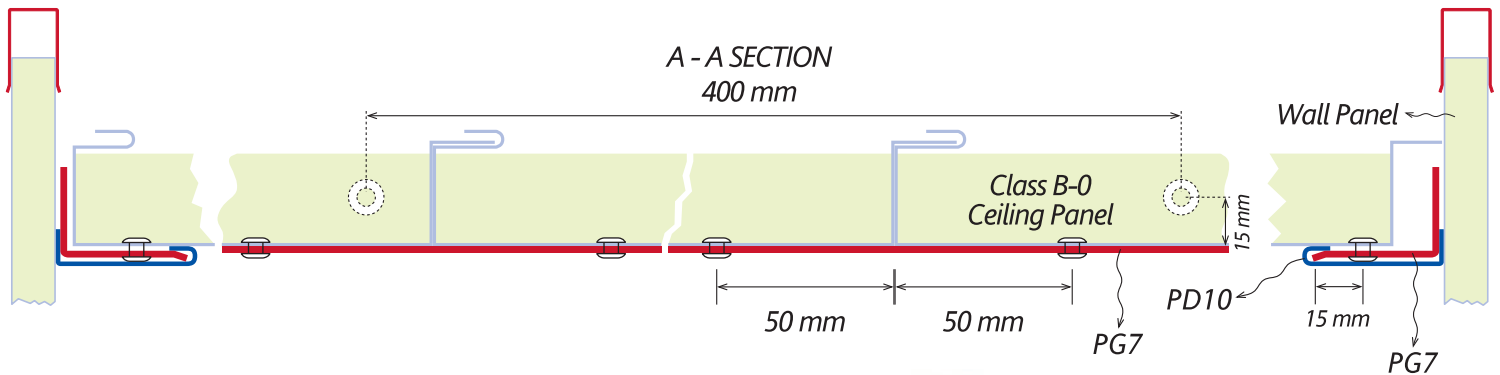


Bureau Veritas

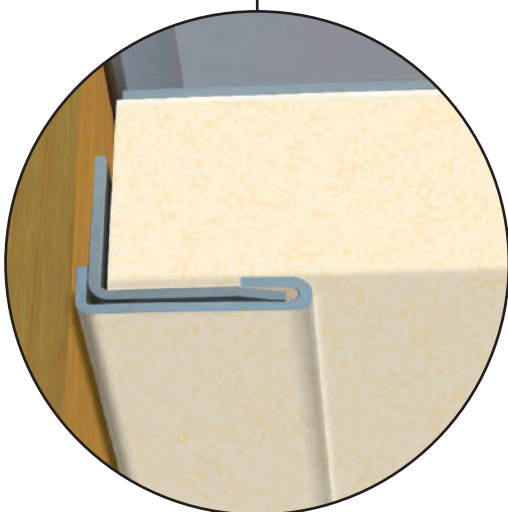
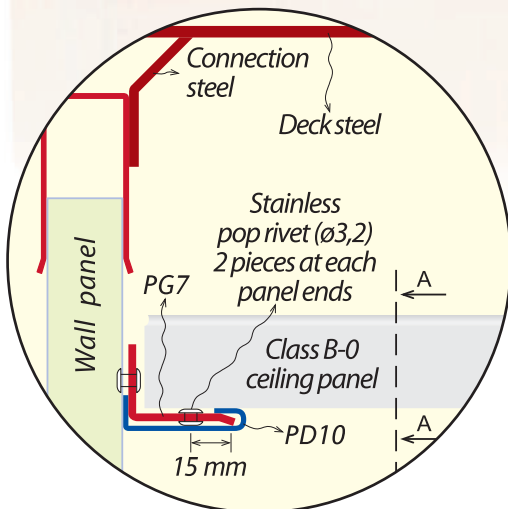


MED Marine Equipment Directive (EC)

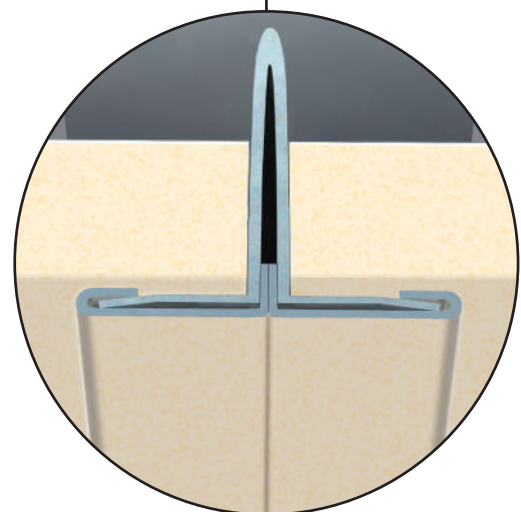
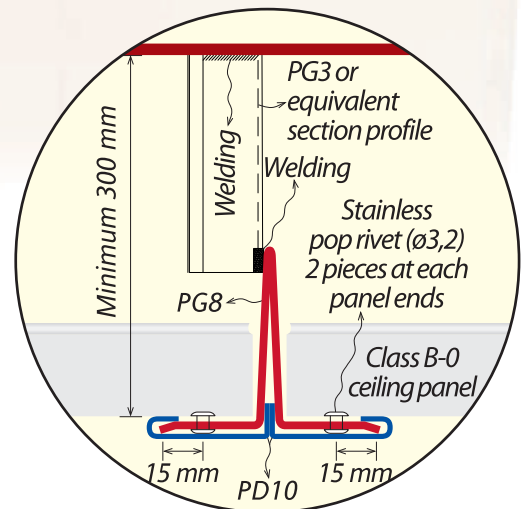
Assembling of Class B-0 Ceiling Panels



Connection Details to Wall

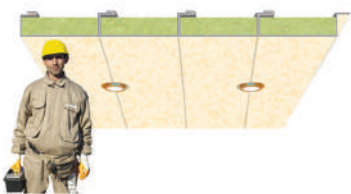


Longitudinally Joint Details



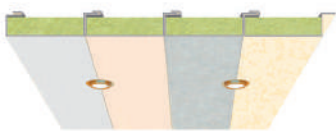
Advantages of Class B-0 Ceiling Panels

Fast and easy assembling.

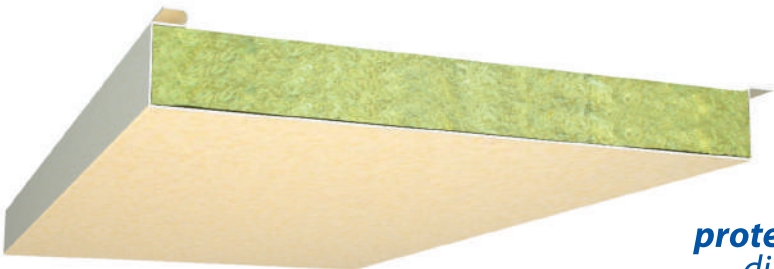
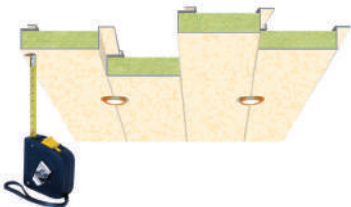


Plenty of color choice.

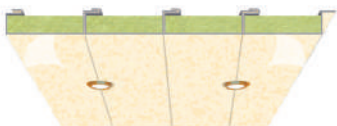
Surface would be **PVC, stainless or galvanized steel.**



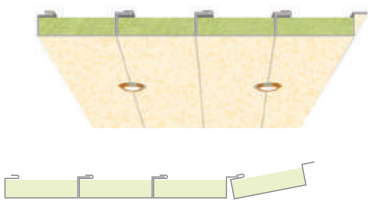
Standart length manufacturing. Available to produce **required size.**



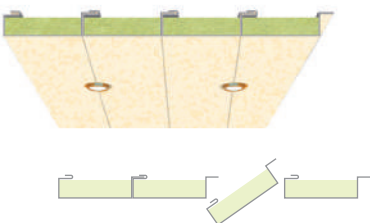
PVC surfaces are covered with a **protective film** against dirty and scratching.



Longitudinally connection are available to **fitted into each others**

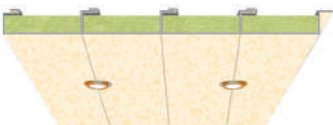


Available taking a panell off **among** the others

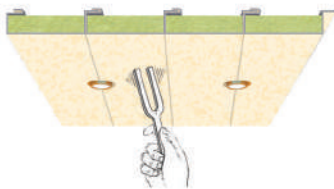


Longitudinally mounting fitted into each others kind, gives important advantages:

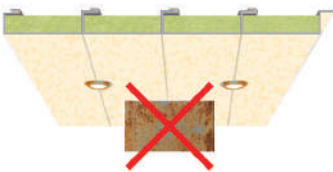
Connected areas are only one regularline ceiling surface is smooth.



No noise when vibration.



No corrosion because of not touching to steel to stell.



Much effective sound and fire insulation.

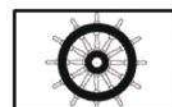




Class B-0 Lining Panel



*Panels are fitted into each others.
Strong and smooth continuous wall form.*



Technical Characteristics of Class B-0 Lining Panel



Fire Class : B-0



Thickness : 25 mm



Width : 500 mm (± 1 mm)



Standart Length : 2200 mm (± 3 mm)



Manufacturable Length : 1000 ~ 2465 mm (± 3 mm)



Steel Thickness : 0,6 mm



Finish Surface : PVC/GLV or SS/GLV or GLV/GLV



PVC Film : PVC film has "low flame spread" certificate



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 130 kg/m³



Thermal Conductivity Coefficient.. : 1,06 Kcal/m²h°C



Sound Reduction Ability Rw : Only Panel 28,6 dB



Weight : 14,2 kg/m²

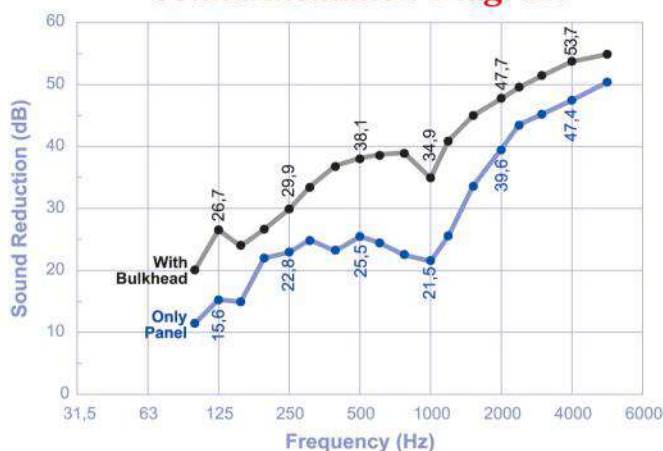


Application : It is used lining panel in front of bulkhead



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram



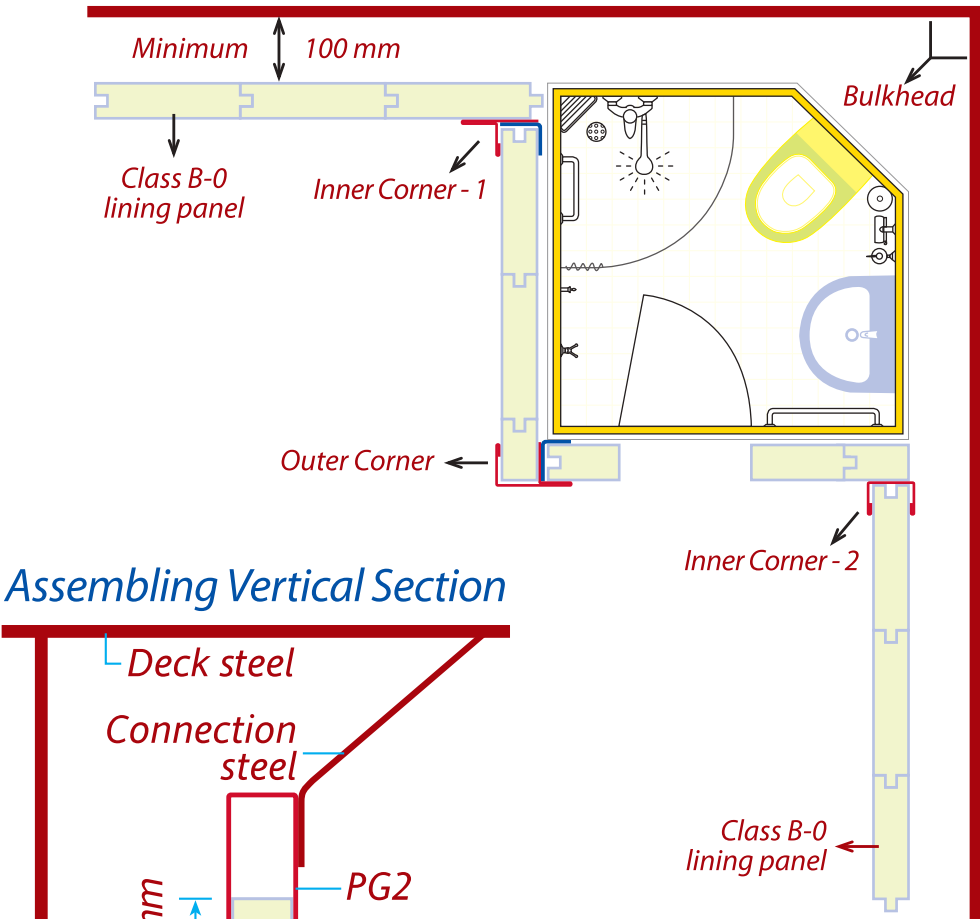
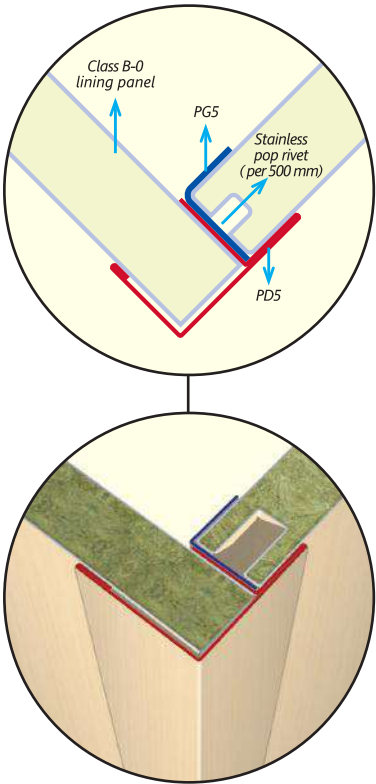
Bureau Veritas



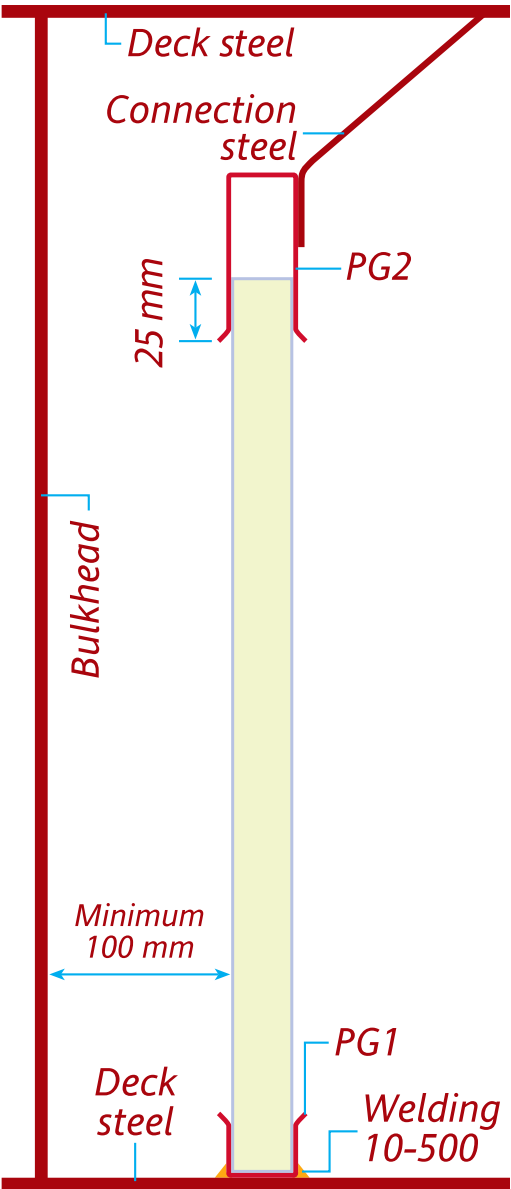
MED Marine Equipment Directive (EC)

Assembling of Class B-0 Lining Panels

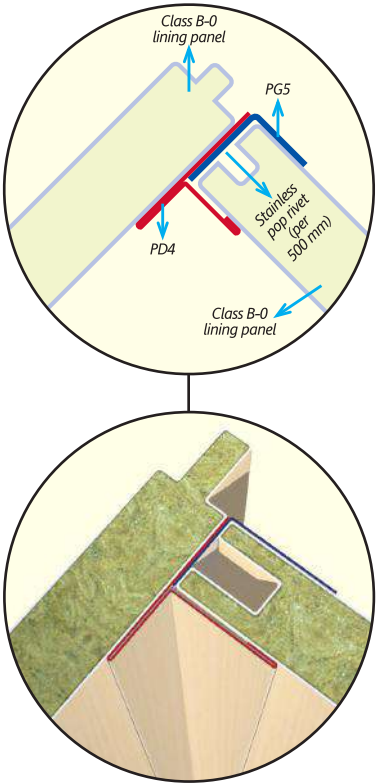
Outer Corner Details



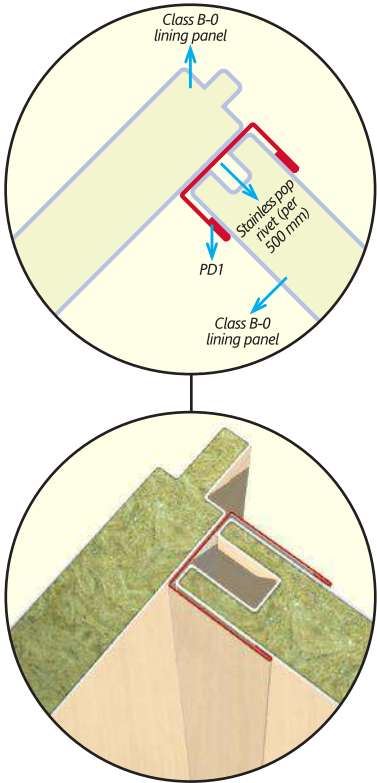
Assembling Vertical Section



Inner Corner Details - 1



Inner Corner Details - 2



Advantages of Class B-0 Lining Panels

Fast and easy assembling.



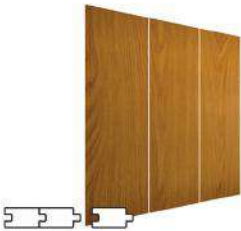
Plenty of color choice.

Surface would be **PVC, stainless or galvanized steel.**



Standart length manufacturing.
Available to produce **required size.**

Vertical mounting **fitted into each others.**



PVC surfaces are covered with a **protective film** against dirty and scratching.

Vertical mounting fitted into each others kind, gives important advantages:

Connected areas are only one regular line wall surface is smooth.



Strong and became partially carrier spect.



No noise when vibration.



No corrosion because of not touching to steel to steel.



Much effective sound and fire insulation.

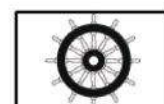




***Class B-15
Thin Bulkhead Panel
(25 mm)***



*Panels are fitted into each others.
Strong and smooth continuous wall form.*



Technical Characteristics of Class B-15 Thin Bulkhead Panel (25 mm)



Fire Class : B-15



Thickness : 25 mm



Width : 500 mm (± 1 mm)



Standart Length : 2200 mm (± 3 mm)



Manufacturable Length : 1000 ~ 2465 mm (± 3 mm)



Steel Thickness : 0,6 mm



Finish Surface : PVC/PVC or PVC/GLV or PSL/GLV or GLV/GLV or PAINTED/PAINTED



PVC Film : PVC film has “low flame spread” certificate



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 180 kg/m³



Thermal Conductivity Coefficient.. : T (°C) 10 - λ (W/mK) 0.038



Sound Reduction Ability Rw : Only Panel 28.7 dB



Weight : 14.5 kg/m²

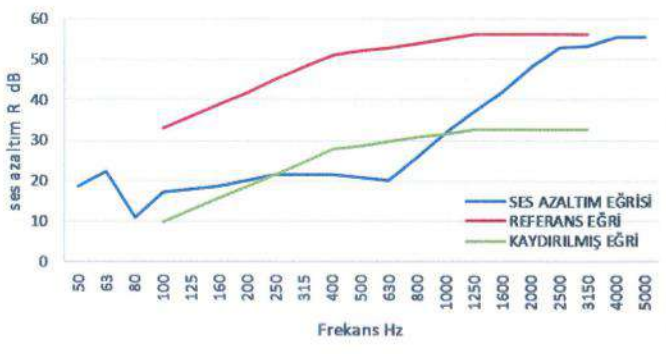


Application : It is used the partition panel or the lining panel in front of bulkhead



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram



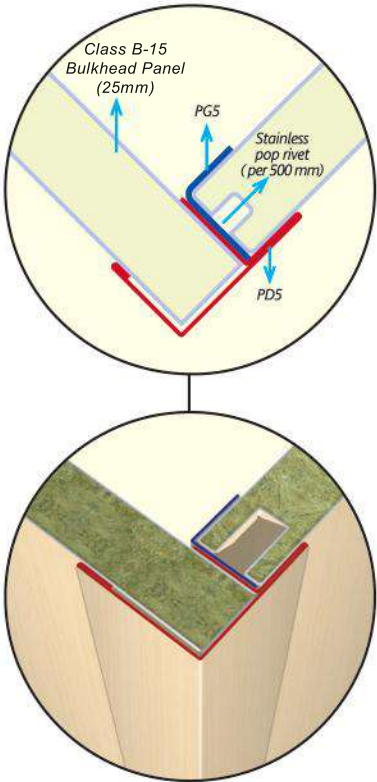
Bureau Veritas



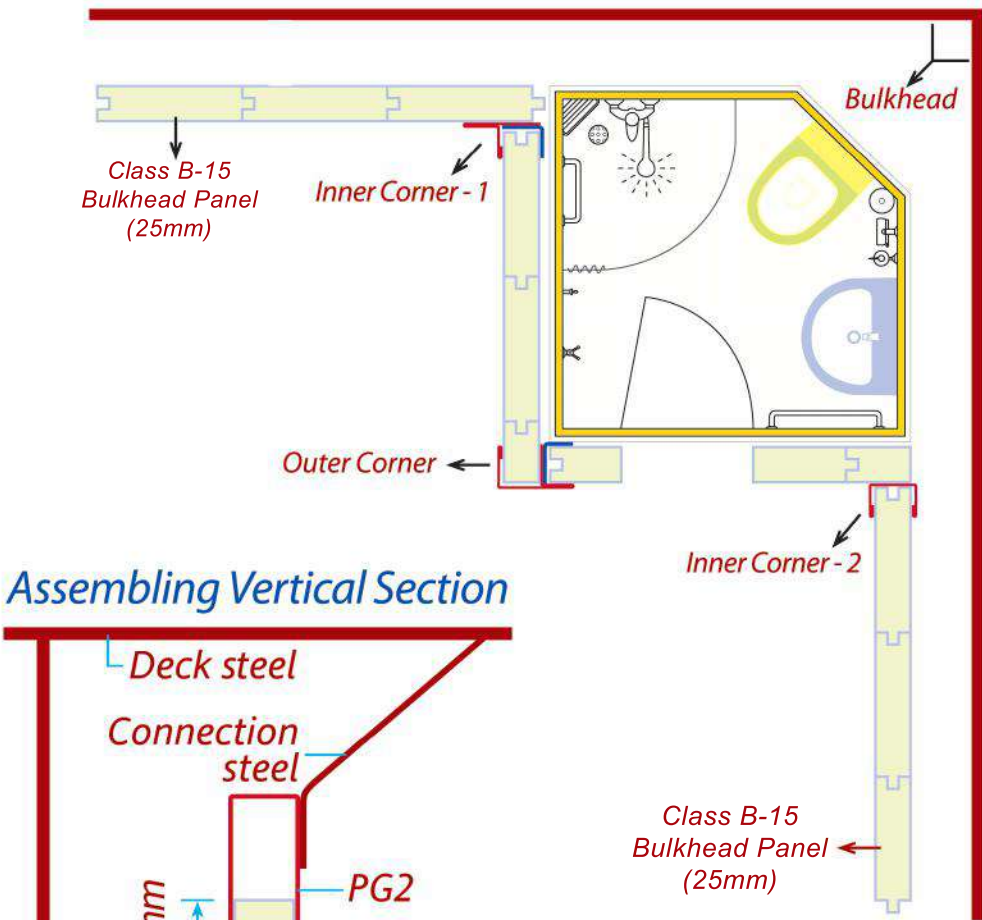
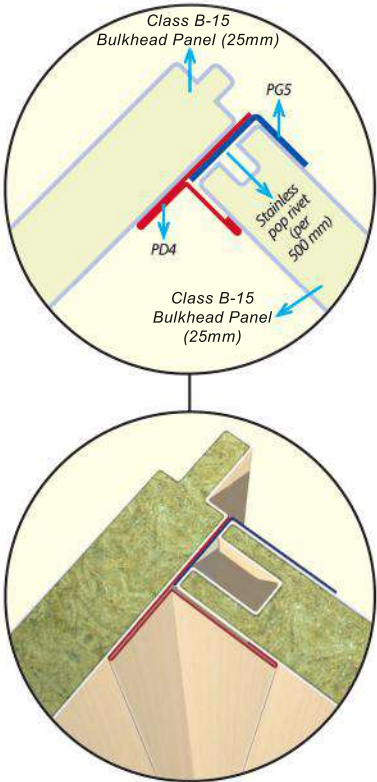
MED Marine Equipment Directive (EC)

Assembling of Class B-15 Thin Bulkhead Panel (25mm)

Outer Corner Details

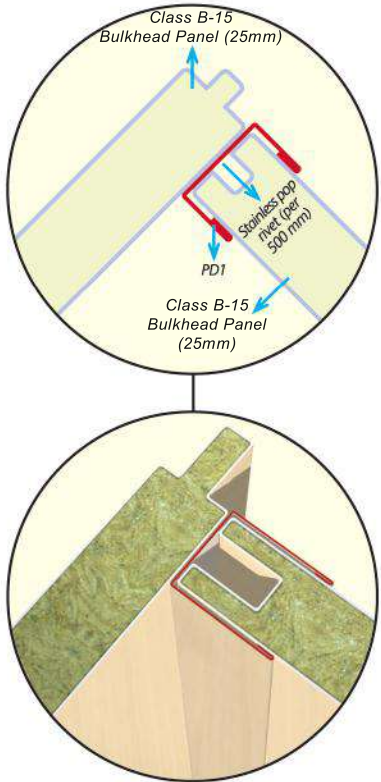


Inner Corner Details - 1



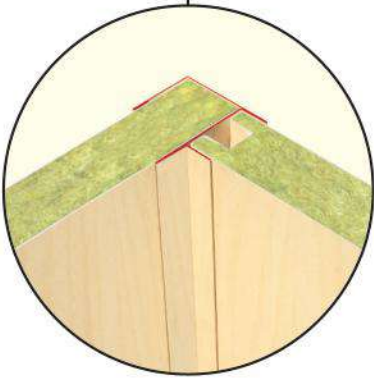
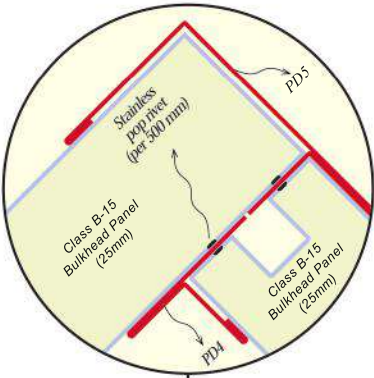
Assembling Vertical Section

Inner Corner Details - 2

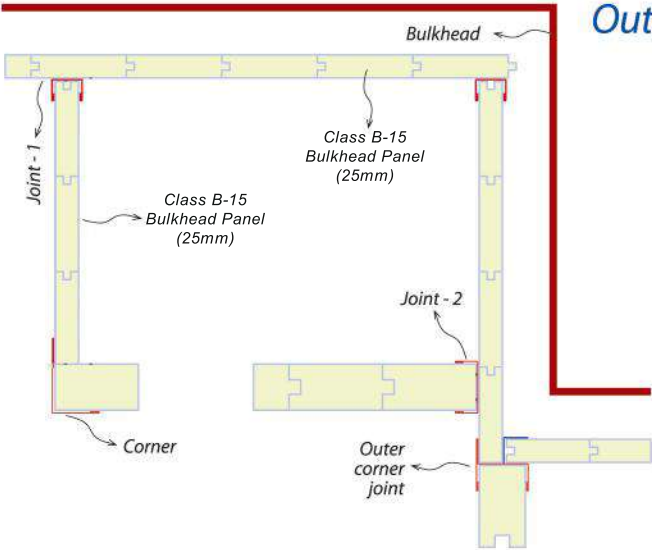
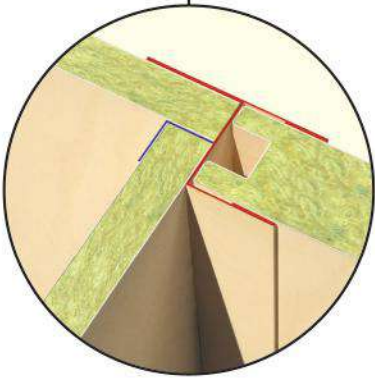
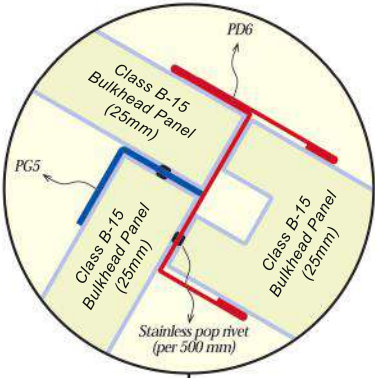


Assembling of Class B-15 Thin Bulkhead Panel (25mm)

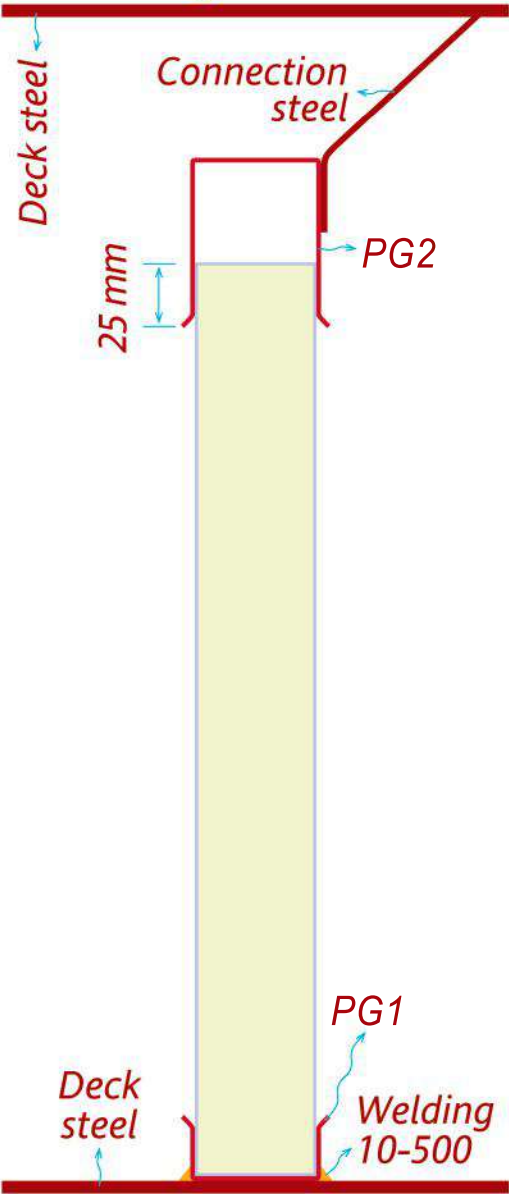
Corner Detail



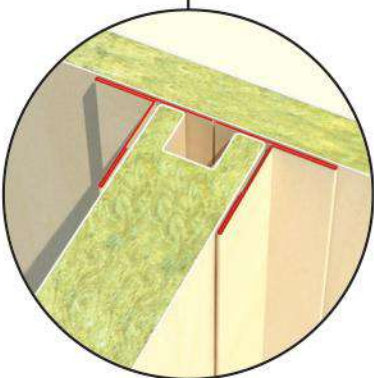
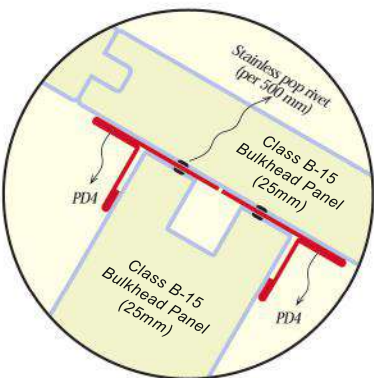
Outer Corner Assembling Detail



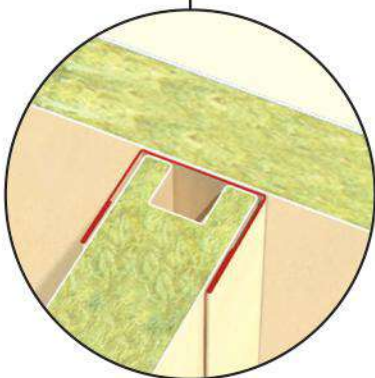
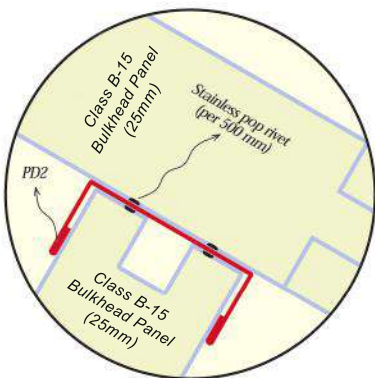
Assembling Vertical Section



Joint Detail - 1



Joint Detail - 2



Advantages of Class B-15 Thin Bulkhead Panels (25mm)

Fast and easy assembling.



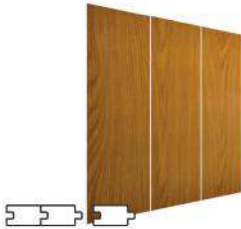
Plenty of color choice.

Surface would be **PVC, stainless or galvanized steel.**



Standart length manufacturing. Available to produce required size.

Vertical mounting fitted into each others.



PVC surfaces are covered with a **protective film** against dirty and scratching.

Vertical mounting fitted into each others kind, gives important advantages:

Connected areas are only one regularline wall surface is smooth.



Strong and became partially carrier spect.



No noise when vibration.



No corrosion because of not touching to steel to steel.



Much effective sound and fire insulation.



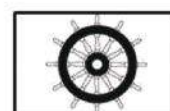


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Class B-15 Partition Panel



*Panels are fitted into each others.
Strong and smooth continuous wall form.*

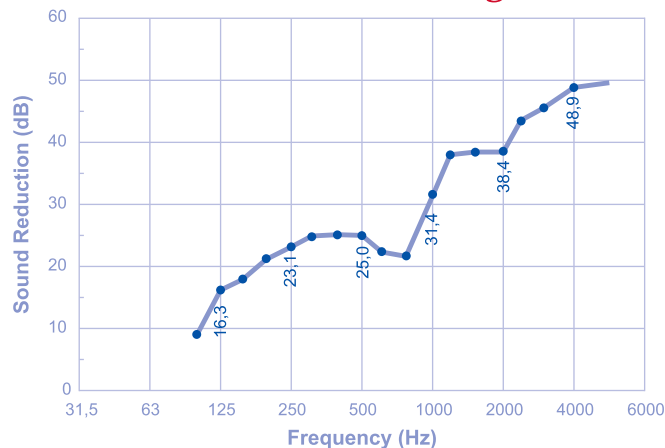


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Technical Characteristics Class of B-15 Partition Panel

	Fire Class	: B-15
	Thickness	: 50 mm
	Width	: 500 mm (±1 mm)
	Standart Length	: 2200 mm (±3 mm)
	Manufacturable Length	: 1000 ~ 2465 mm (±3 mm)
	Steel Thickness	: 0,6 mm
	Finish Surface	: PVC/PVC or SS/SS or GLV/GLV
	PVC Film	: PVC film has “low flame spread” certificate
	Insulation Materials	: Mineral Wool - Rockwool / Denmark
	Density of Rockwool	: 130 kg/m³
	Sound Reduction Ability <i>R_w</i>	: 29 dB
	Weight	: 17,6 kg/m²
	Application	: It is used as partition panel
	Certificate [IMO Resolution A.754(18)]	:  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram



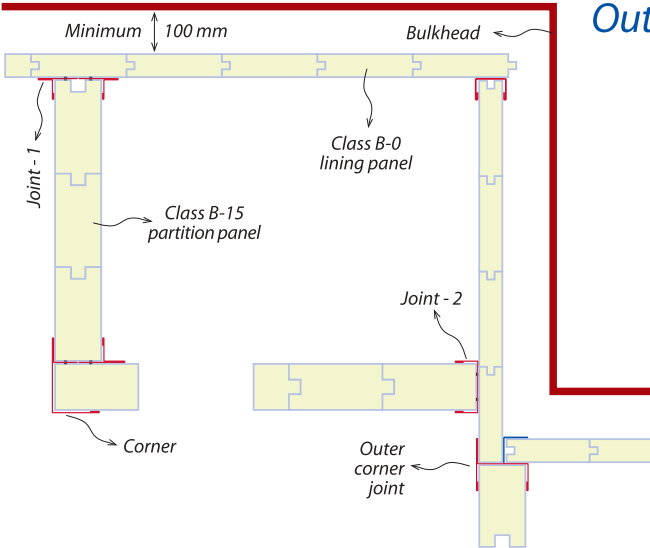
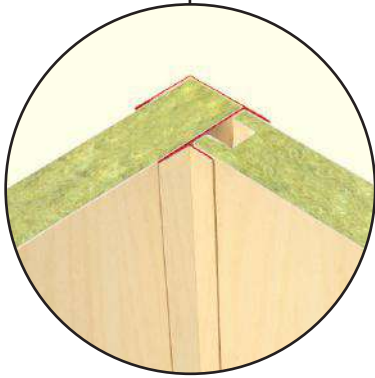
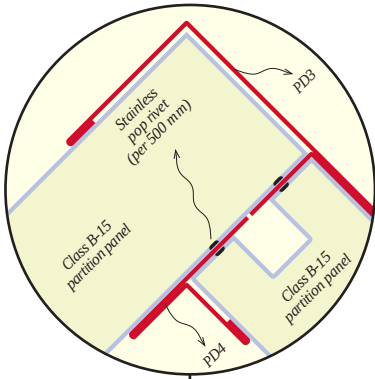
Bureau Veritas



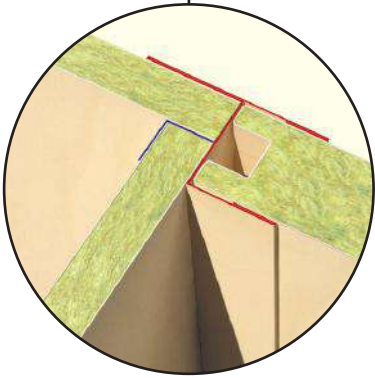
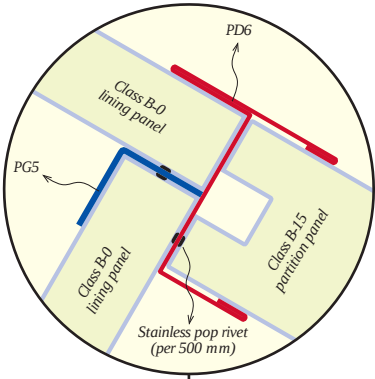
MED Marine Equipment Directive (EC)

Assembling of Class B-15 Partition Panels

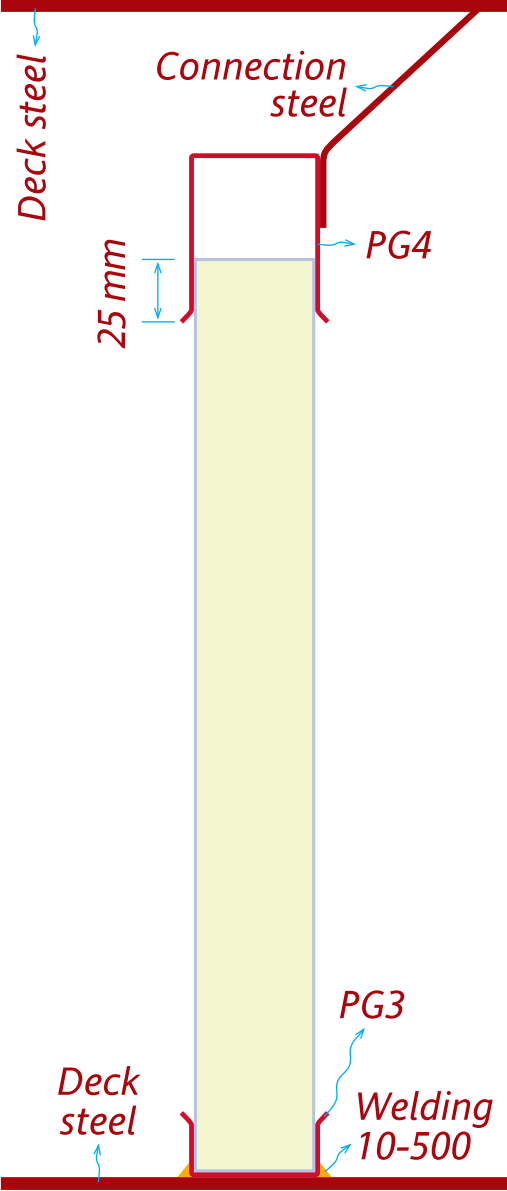
Corner Detail



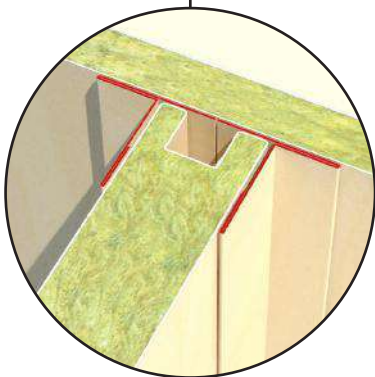
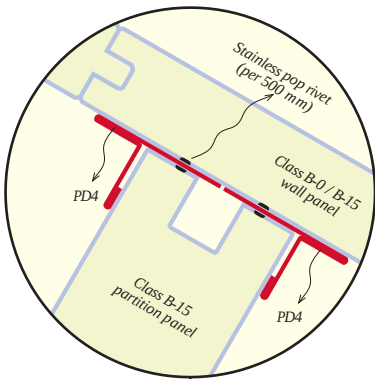
Outer Corner Assembling Detail



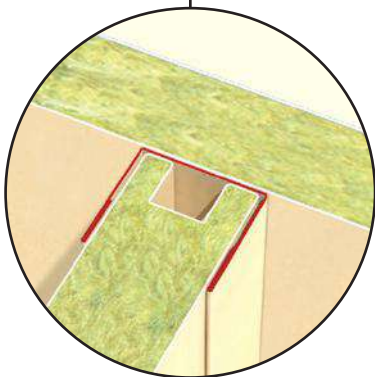
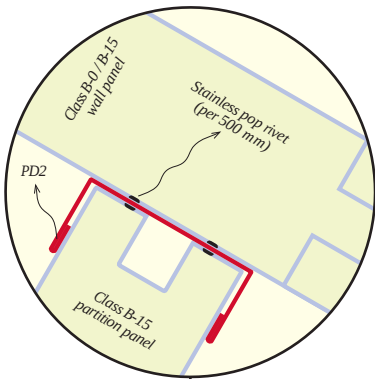
Assembling Vertical Section



Joint Detail - 1



Joint Detail - 2



Advantages of Class B-15 Partition Panels

Fast and easy assembling.



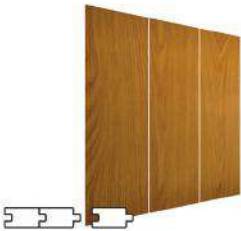
Plenty of color choice.

Surface would be **PVC, stainless or galvanized steel.**



Standart length manufacturing.
Available to produce required size.

Vertical mounting fitted into each others.



PVC surfaces are covered with a **protective film** against dirty and scratching.

Vertical mounting fitted into each others kind, gives important advantages:

Connected areas are only one regularline wall surface is smooth.



Strong and became partially carrier spect.



No noise when vibration.



No corrosion because of not touching to steel to steel.



Much effective sound and fire insulation.



*High Value Sound Reduction
Class B-15 Bulkhead Panel (50mm)*



*Panels are fitted into each others.
Strong and smooth continuous wall form.*



Technical Characteristics of High Value Sound Reduction Class B-15 Bulkhead Panel (50mm)



Fire Class : B-15



Thickness : 50 mm



Width : 500 mm (± 1 mm)



Standart Length : 2200 mm (± 3 mm)



Manufacturable Length : 1000 ~ 2465 mm (± 3 mm)



Steel Thickness : 0,6 mm



Finish Surface : PVC/PVC or SS/SS or GLV/GLV or PAINTED/PAINTED



PVC Film : PVC film has “low flame spread” certificate



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 180 kg/m³



Sound Reduction Ability Rw : Only Panel 40,1 dB



Weight : 20 kg/m²



Application : It is used as bulkhead panel

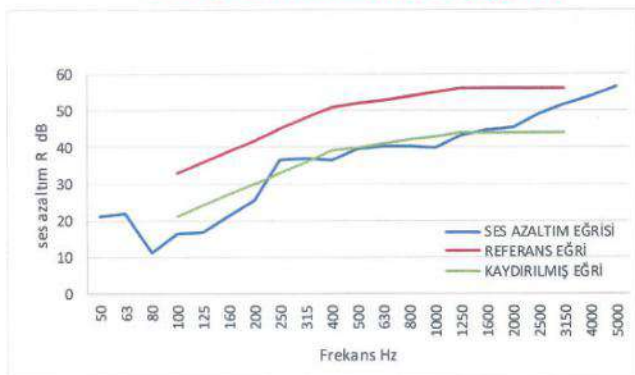


Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram



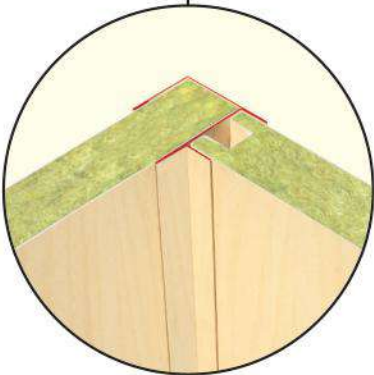
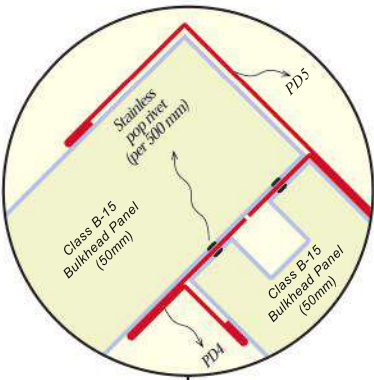
Bureau Veritas



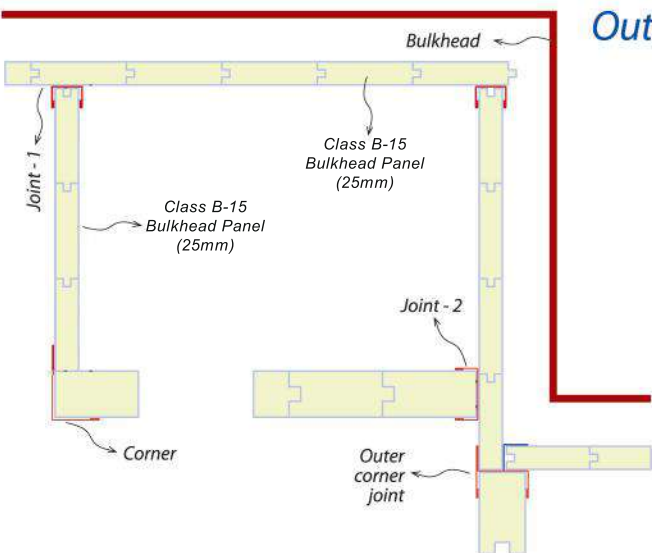
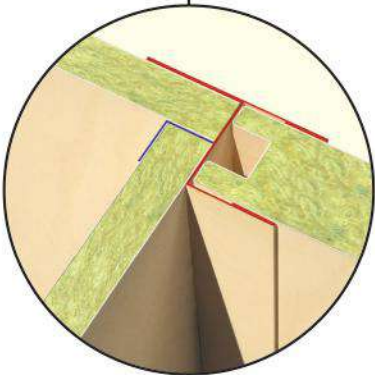
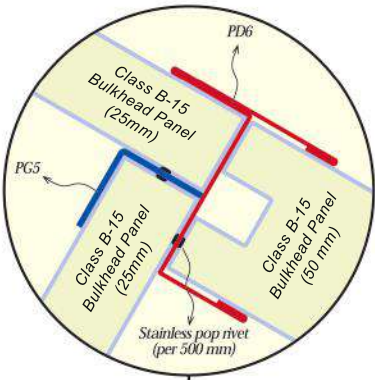
MED Marine Equipment Directive (EC)

Assembling of High Value Sound Reduction Class B-15 Bulkhead Panel (50mm)

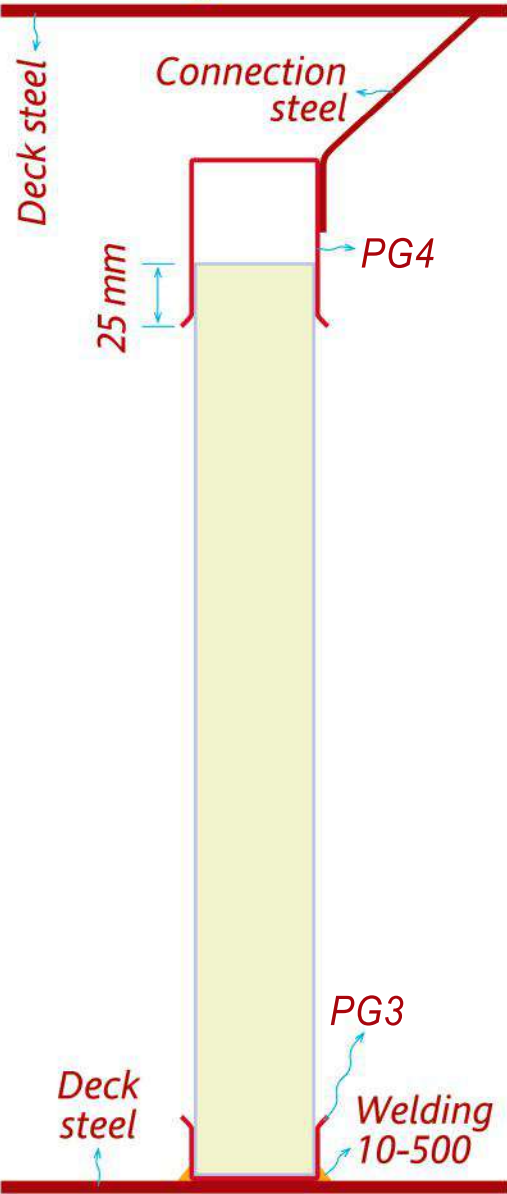
Corner Detail



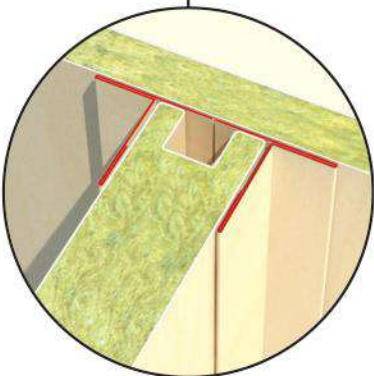
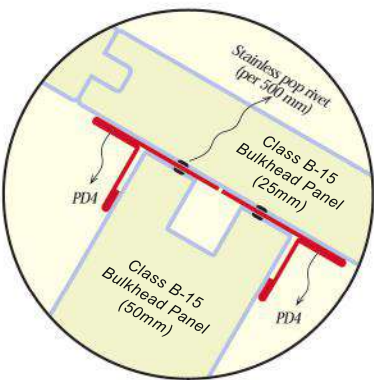
Outer Corner Assembling Detail



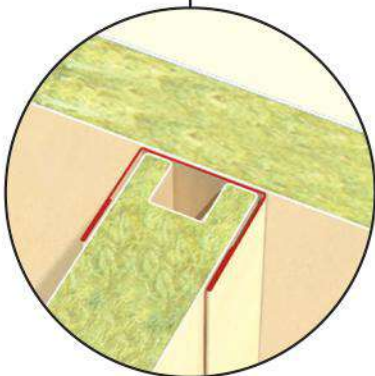
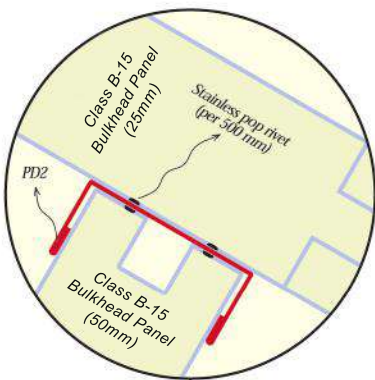
Assembling Vertical Section



Joint Detail - 1



Joint Detail - 2



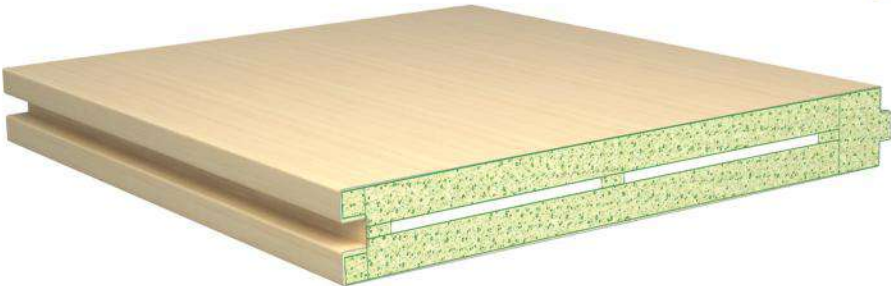
Advantages of High Value Sound Reduction Class B-15 Bulkhead Panel (50mm)

Fast and easy
assembling.



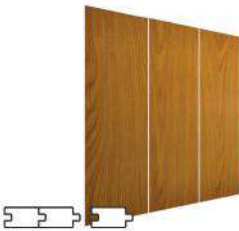
Plenty of
color choice.

Surface would be **PVC,**
stainless or **galvanized** steel.



Standart length
manufacturing.
Available to produce
required size.

Vertical mounting
fitted into each others.



PVC surfaces are
covered with a
protective film against
dirty and scratching.

Vertical mounting fitted into each others kind, gives important advantages:

Connected areas are
only one regularline
wall surface is smooth.



Strong and
became partially
carrier spect.



No noise
when
vibration.



No corrosion because
of not touching to
steel to steel.



Much effective
sound and fire
insulation.





***Class B-15
Thin Bulkhead Panel
(25 mm)***



*Panels are fitted into each others.
Strong and smooth continuous wall form.*

Technical Characteristics of Class B-15 Thin Bulkhead Panel (25 mm)



Fire Class : B-15



Thickness : 25 mm



Width : 500 mm (± 1 mm)



Standart Length : 2200 mm (± 3 mm)



Manufacturable Length : 1000 ~ 2465 mm (± 3 mm)



Steel Thickness : 0,6 mm



Finish Surface : PVC/PVC or PVC/GLV or PSL/GLV or GLV/GLV or PAINTED/PAINTED



PVC Film : PVC film has “low flame spread” certificate



Insulation Materials : Mineral Wool - Rockwool / Denmark



Density of Rockwool : 180 kg/m³



Thermal Conductivity Coefficient.. : T (°C) 10 - λ (W/mK) 0.038



Sound Reduction Ability Rw : Only Panel 28.7 dB



Weight : 14.5 kg/m²

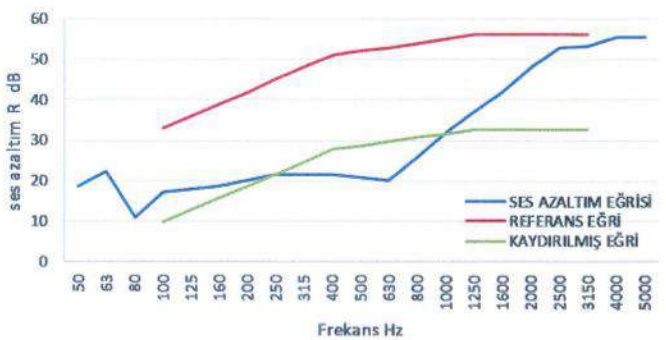


Application : It is used the partition panel or the lining panel in front of bulkhead



Certificate [IMO Resolution A.754(18)] :  Flag Authority (TC Maritime Undersecretary)

Sound Insulation Diagram



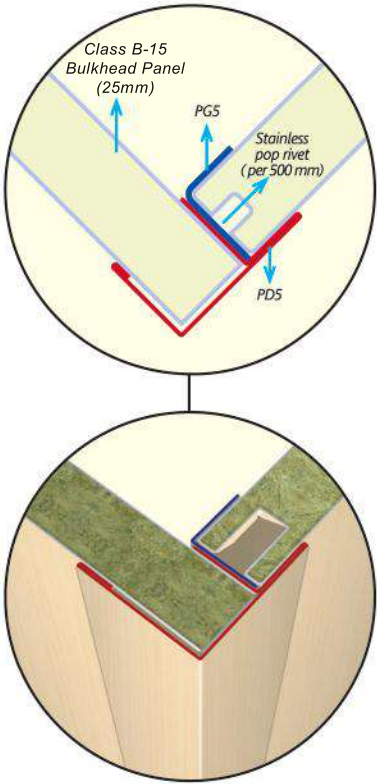
Bureau Veritas



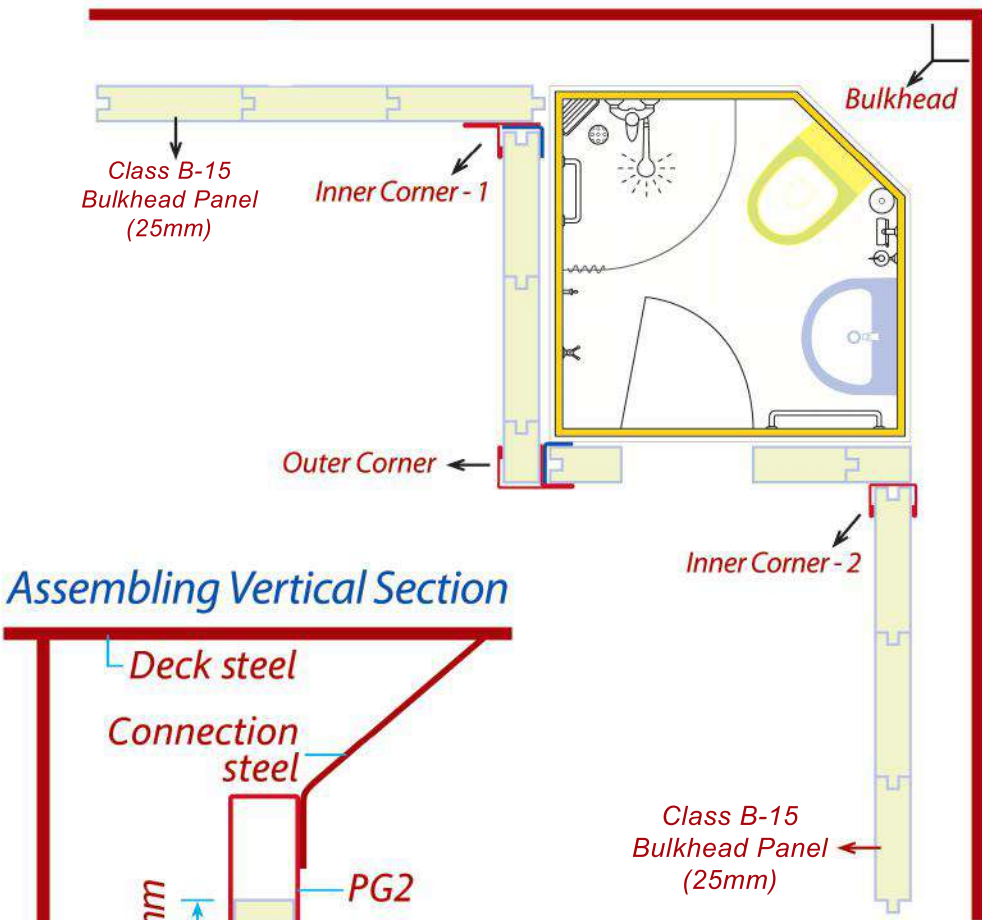
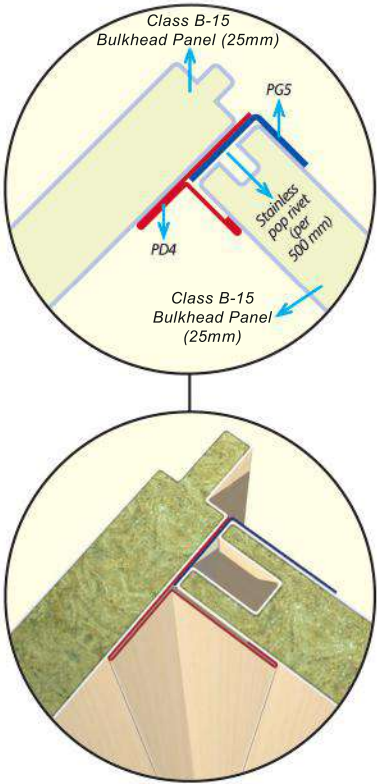
MED Marine Equipment Directive (EC)

Assembling of Class B-15 Thin Bulkhead Panel (25mm)

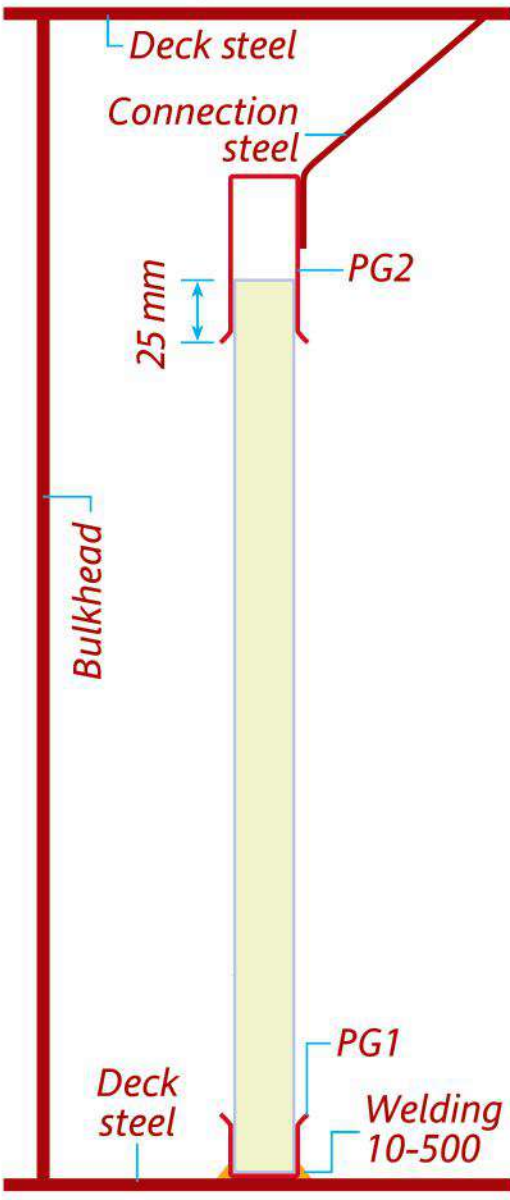
Outer Corner Details



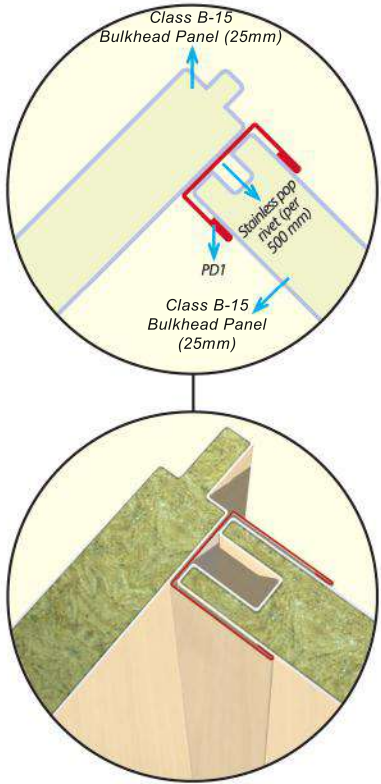
Inner Corner Details - 1



Assembling Vertical Section

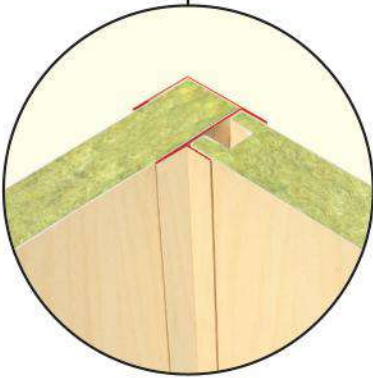
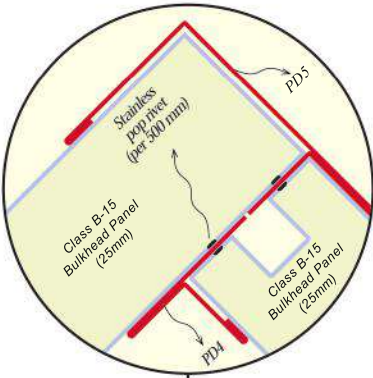


Inner Corner Details - 2

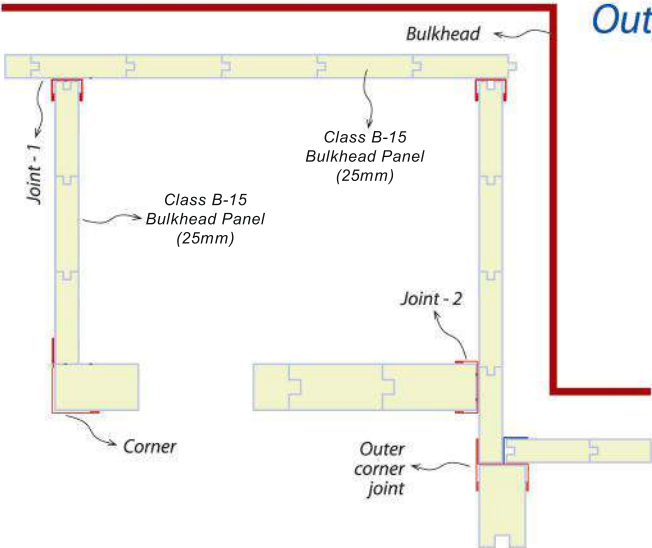
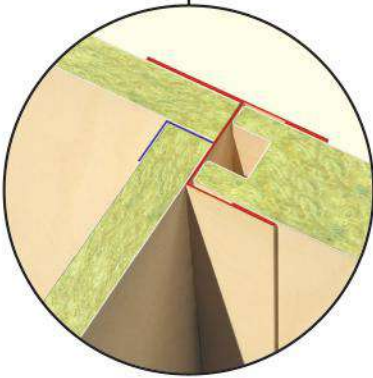
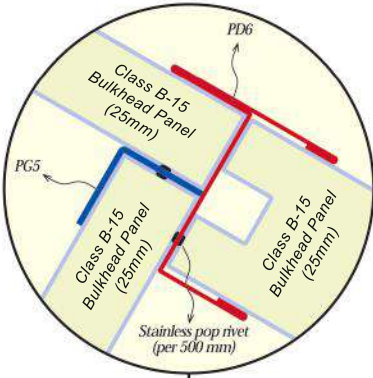


Assembling of Class B-15 Thin Bulkhead Panel (25mm)

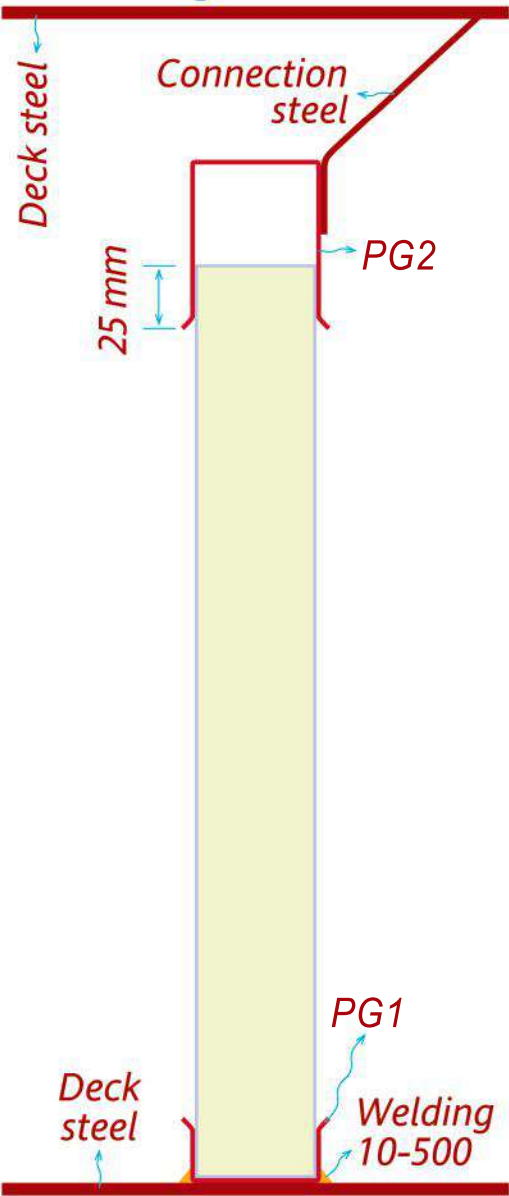
Corner Detail



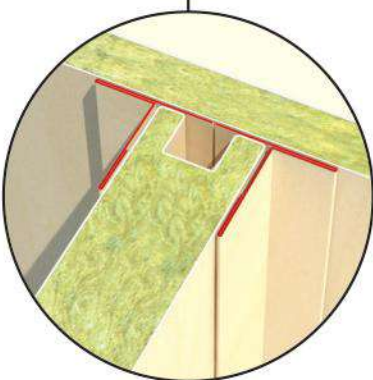
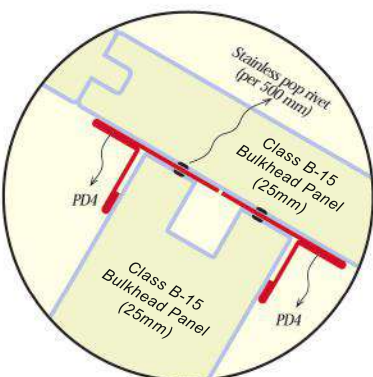
Outer Corner Assembling Detail



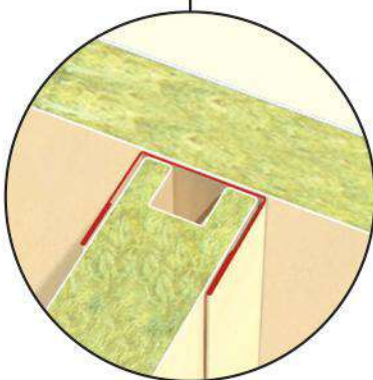
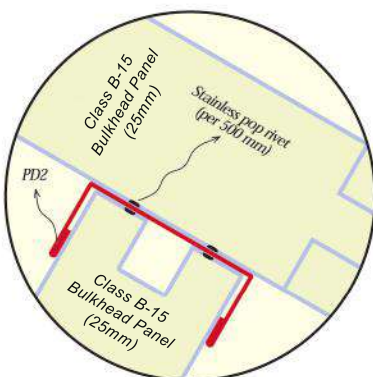
Assembling Vertical Section



Joint Detail - 1



Joint Detail - 2



Advantages of Class B-15 Thin Bulkhead Panels (25mm)

Fast and easy assembling.



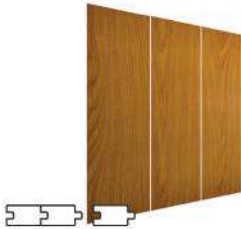
Plenty of color choice.

Surface would be **PVC, stainless or galvanized steel.**



Standart length manufacturing. Available to produce required size.

Vertical mounting fitted into each others.



PVC surfaces are covered with a **protective film** against dirty and scratching.

Vertical mounting fitted into each others kind, gives important advantages:

Connected areas are only one regularline wall surface is smooth.



Strong and became partially carrier spect.



No noise when vibration.



No corrosion because of not touching to steel to steel.



Much effective sound and fire insulation.



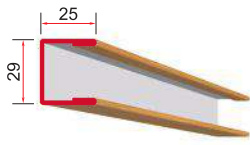


Profiles



These are panel fixing parts.

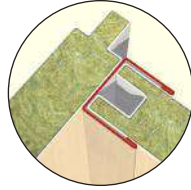
Decorative Profiles (PD)



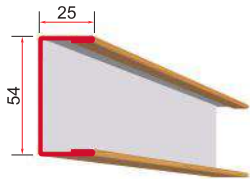
PD1 - End Profile

End cap profile for Class B-0 lining panels connects to the other panel.

Weight: 0,45 kg/m



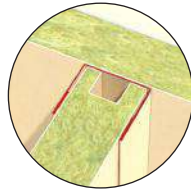
Decorative profiles are made of PVC laminated galvanized steel sheets. They are produced with the same color and length of panel. They are used for fixing parts for panels mounting. Thickness is 0,6 mm.



PD2 - End Profile

End cap profile for Class B-15 partition panels connects to the other panel.

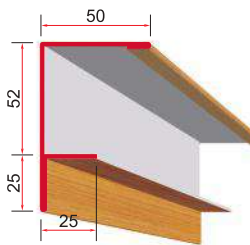
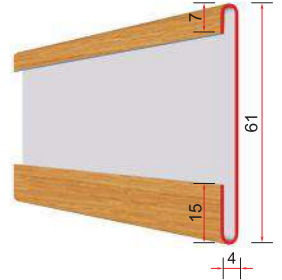
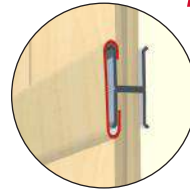
Weight: 0,55 kg/m



PD9- Joint Cover Profile

Covering profile of PG1 profiles where longitudinally added on Class B-0 lining panels.

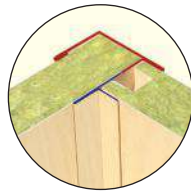
Weight: 0,40 kg/m



PD3 - External Corner Profile

External corner profiles for connection of Class B-15 partition panels.

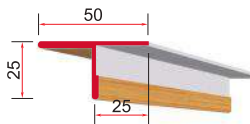
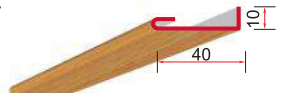
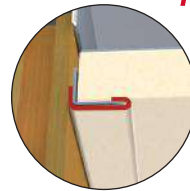
Weight: 0,87 kg/m



PD10 - Covering Profile

Covering profile of PG7 and PG8 which are used for fixing Class B-0 ceiling panels.

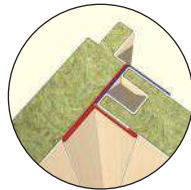
Weight: 0,28 kg/m



PD4 - Internal Corner Profile

Internal corner profile for fixing Class B-0 and/or Class B-15 wall panels.

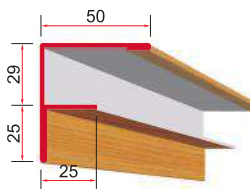
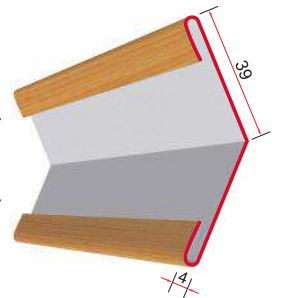
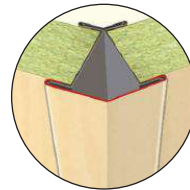
Weight: 0,52 kg/m



PD11 - Angled Outer Corner Profile

External hiding profile of PG1 profiles where angled connections of Class B-0 lining panels.

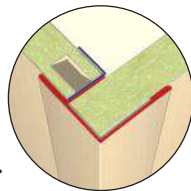
Weight: 0,53 kg/m



PD5 - External Corner Profile

External corner profile for fixing Class B-0 lining panels.

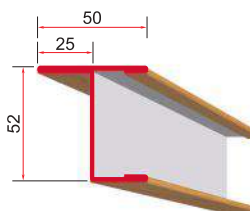
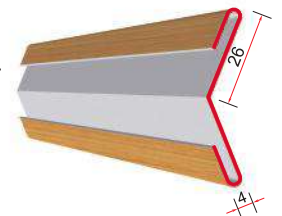
Weight: 0,76 kg/m



PD12 - Angled Inner Corner Profile

Inner hiding profile of PG1 or PG3 profiles where angled connections of Class B-0 or B-15 wall panels.

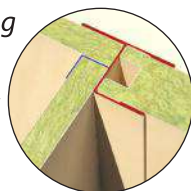
Weight: 0,41 kg/m



PD6- Corner Profile

Corner profile for fixing Class B-15 partition panel where adjacent corner of Class B-0 lining panels.

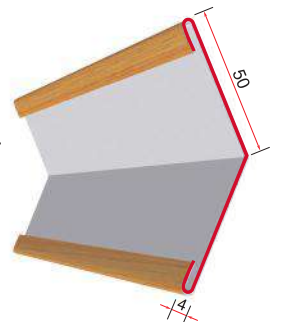
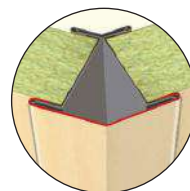
Weight: 0,81 kg/m



PD13 - Angled Outer Corner Profile

External hiding profile of PG3 profile where angled connections of two Class B-15 partition panels.

Weight: 0,67 kg/m



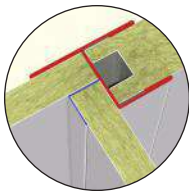
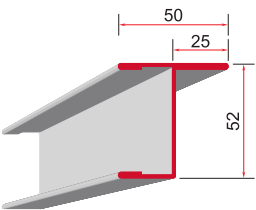
Stainless Steel Profiles (PP)

Stainless steel profiles are made of stainless steel sheets. They are produced with the same length of panels. They are using for fixing of mounting of panels. Thickness is 0,5 mm

PP6-Corner Profile

Corner profile for fixing Class B-15 partition panel where adjacent corner of Class B-0 lining panels.

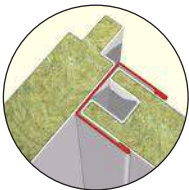
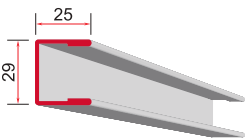
Weight: 0,68 kg/m



PP1 - End Profile

End cap profile for Class B-0 lining panels connects to the other panel.

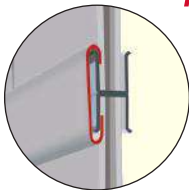
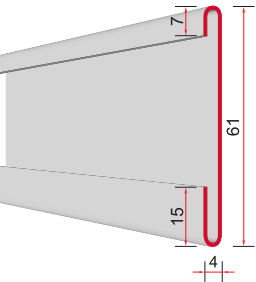
Weight : 0,38 kg/m



PP9- Joint Cover Profile

Covering profile of PG1 profiles where longitudinally added on Class B-0 lining panels.

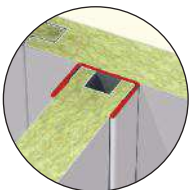
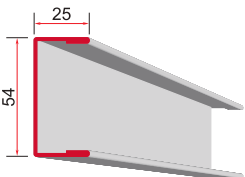
Weight: 0,33 kg/m



PP2 - End Profile

End cap profile for Class B-15 partition panels connects to the other panel.

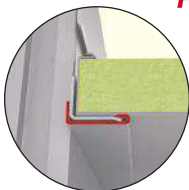
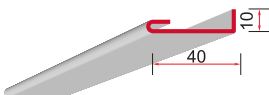
Weight: 0,48 kg/m



PP10 - Covering Profile

Covering profile of PG7 and PG8 which are used for fixing Class B-0 ceiling panels.

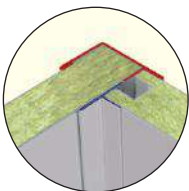
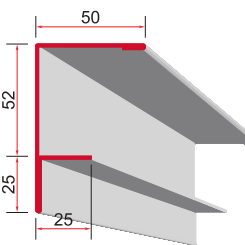
Weight: 0,24 kg/m



PP3 - External Corner Profile

External corner profiles for connection of Class B-15 partition panels.

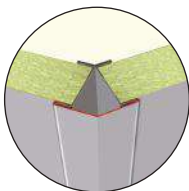
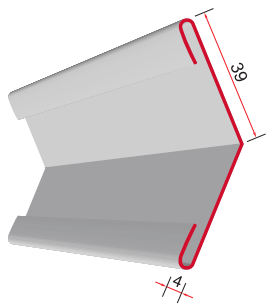
Weight: 0,74 kg/m



PP11 - Angled Outer Corner Profile

External hiding profile of PG1 profiles where angled connections of Class B-0 lining panels.

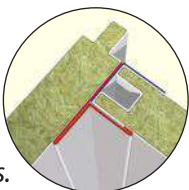
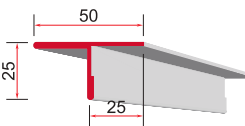
Weight: 0,44 kg/m



PP4 - Internal Corner Profile

Internal corner profile for fixing Class B-0 and/or B-15 wall panels.

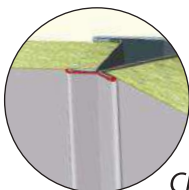
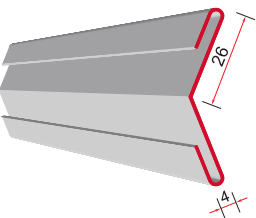
Weight: 0,44 kg/m



PP12 - Angled Inner Corner Profile

Inner hiding profile of PG1 or PG3 profiles where angled connections of Class B-0 or B-15 wall panels.

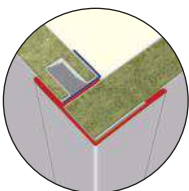
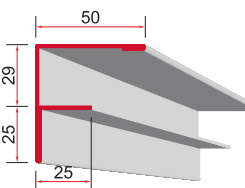
Weight: 0,34 kg/m



PP5 - External Corner Profile

External corner profile for fixing Class B-0 lining panels.

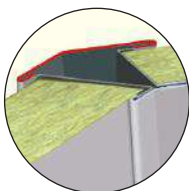
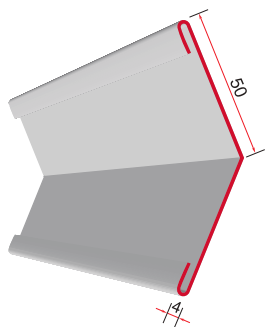
Weight: 0,64 kg/m



PP13 - Angled Outer Corner Profile

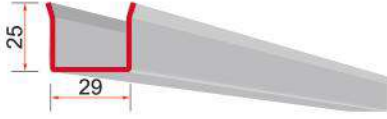
External hiding profile of PG3 profile where angled connections of two Class B-15 partition panels.

Weight: 0,56 kg/m



Galvanized Profiles (PG)

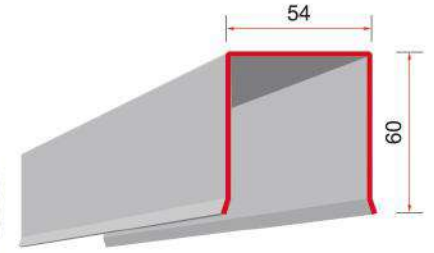
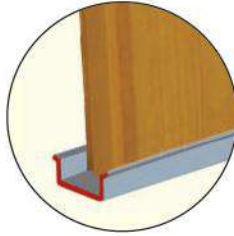
Galvanized profiles are made of galvanized steel sheets. They are used for fixing of panels mounting. Thickness is 1,5 mm. They are produced 2400 mm standart lenght. Galvanized profiles are welded directly to desk steel or by using a connection part.



PG1 - Bottom U Profile

It is used for fixing Class B-0 lining panel to ground steel.

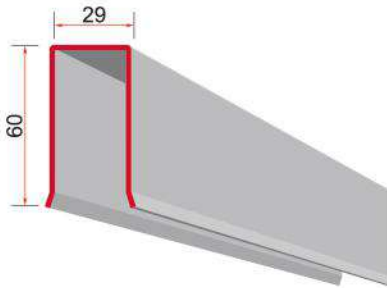
Weight: 0,90 kg/m



PG4 - Top U Profile

It is used for fixing Class B-15 partition panels to deck steel.

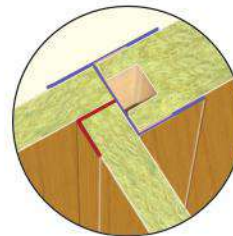
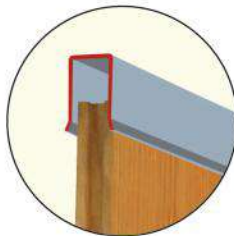
Weight: 2,01 kg/m



PG2 - Top U Profile

It is used for fixing Class B-0 lining panel to deck steel.

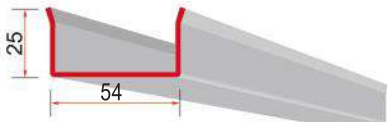
Weight: 1,72 kg/m



PG5 - Angled Profile

Multi purposes and supporting profile.

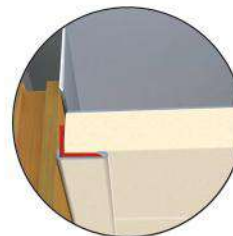
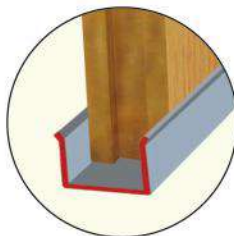
Ağırlık: 0,55 kg/m



PG3 - Bottom U Profile

It is used for fixing Class B-15 partition panel to deck steel.

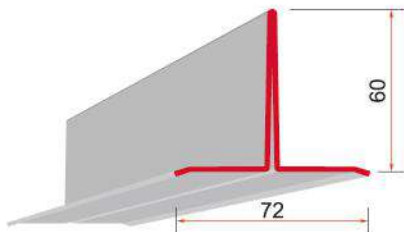
Weight: 1,20 kg/m



PG7 - Edge L Profile

Ceiling-Wall connections profile.

Weight: 0,67 kg/m



PG8 - T Carrier Profile

It is used as a carrier profile of ceiling panels where longitudinally connections places.

Weight: 2,13 kg/m

