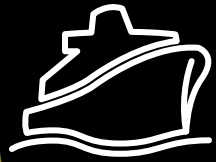# SHIP BOARD

It is a stone wool board used in ship and sea construction, cofferdam walls, fire partitions, fire doors and ship interior installations for sound insulation and fire safety purposes.

Application

Noncombustibility of Stone Wool Ship Boards enables them to be used for thermal, sound and fire insulation of very high temperatures. The boards are fastened to the smooth application surfaces by fastening rods. Then they are either covered with sheet metal cladding or they are laid in the structural frame formed on the surface.

There are 4 different board types available as Marine Firebatts 45 (MF 45), Marine Firebatts 110 (MF 110), Marine Firebatts 140 (MF 140), Marine Slab 150 (MS 150). MF 45 is used in ship interior installations, MF 110 and MF 140 are used in bulkhead applications, MS 150 is used in floating floor applications of ships.

	Thickness (cm)	Width x Length (cm)	Package (m²)
MF 45	3	60 x 120	11,52
	4	60 x 120	7,20
	5	60 x 120	5,76
	6	60 x 120	5,04
MF 110	3	60 x 120	7,20
	4	60 x 120	4,32
	5	60 x 120	3,60
	6	60 x 120	2,88
MF 140	3	60 x 100	4,80
MS 150	3	60 x 120	5,76
	4	60 x 120	4,32
	5	60 x 120	3,60
	6	60 x 120	3,60

Type		MF 45	MF 110	MF 140	MS 150
Density (kg/m³)		45	110	140	150
Declared Thermal Conductivity (W/mk)	Avarage Temperature (°C) 50	0,043	0,037	0,037	0,037
	100	0,055	0,045	0,044	0,044
	150	0,070	0,053	0,051	0,051
	200	0,090	0,062	0,059	0,059
	250	0,113	0,073	0,068	0,068
	300	0,141	0,085	0,077	0,077
	350	-	0,097	0,087	0,087

- High thermal insulation
- Fire safety
- Sound insulation
- Tested according to IMO 754 A18.

TECHNICAL DATA SHEET

İzocam Ship Board

Properties		Symbol	Unit	Description							Tolerance	Standard
Material		-	-	Stone Wool							-	-
Material Type		-	-	MF 45	MF 110		MF 140		MS 150		-	-
Density		ρ	kg/m³	45	110		140		150		+/- 10%	-
Width x Length		W x L	mm	600 x 1200							+/- 1,5%	TS EN 822
Thickness		t	mm	30	40		50		60		-3% or -3 mm +5% or +5 mm	TS EN 823
Facing		-	-	Unfaced - Al-foil							-	-
Reaction to fire		-	-	A1							-	TS EN 13501-1
Declared Thermal Conductivity		T_m	°C	50	100	150	200	250	300	350	-	TS EN 12667 TS EN 12939
	MF 45	λ	m W/m.K	43	55	70	90	113	141	-		
	MF 110			37	45	53	62	73	85	97		
	MF 140			37	44	51	59	68	77	87		
	MS 150			37	44	51	59	68	77	87		
Max. Service Temperature		-	°C	450		650					-	TS EN 14706
Water Vapor Diffusion Resistance Coefficient		μ	-	1							-	DIN 52615
Water Absorption		-	(v/v) %	1,5	2		2,5		3		-	ASTM C 272
Packaging Material		-	-	PE Film							-	-
Other Information		MF 140 is manufactured in 30 mm thickness. Ship board products have "EC Type Non-Combustible Material" certification.										

Safety Reminders for Loading, Unloading, Shipping and Storing
- These operations should be done indoors in case of rainy weather conditions.
- Loading and unloading should be done by (at least) two people.
- Products should be wrapped by a waterproof cover even if the shipping distance is short.
- Products should not be superposed with pallets.
- Products should not be put into upright position during shipping and storing.
- Products should not be stepped on and should not be used as steps.
- Products should not be pulled by their package.
- Products should be in packages (10 each) and maximum 6 packages can be superposed.
- Before binding, hard cardboards (minimum 20 x 50 cm) should be put on the corners of packages to protect against possible damages by ropes.
- Storage area should be protected against any wet threats such as rain, float, etc. Indoor spaces should be preferred.
- The packages should be put on the floor with extra care so the corners of the product especially is not damaged by a hit.

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ZERO GLOBAL WARMING POTENTIAL

ZERO OZONE DEPLETION POTENTIAL

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