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- Sliding Window
- Glass Sliding Roof
- Windscreen, Railings, Balustrades
- Skylights
- Glass Assortment
- Loggia-Cabin Window System
- Interior
- SOLARmare - PV Glazing
- PYRAMare - Fire-Resistant Glazing
- DUROmare - Safe & Light



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marine glazing Brombach + Gess GmbH & Co. KG

DUROmare - Safe & Light

Laminated safety glass -
especially developed for maritime needs

marine glazing
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DUROmare

Brombach + Gess, in collaboration with the glass finisher Hero-Glas, has developed and licensed DUROmare laminated safety glass especially for maritime requirements. Laminated safety glass made from DUROmare can withstand higher pressure loads than a monolithic single pane.

As a result, glass thicknesses can be significantly reduced, particularly where high load requirements result in glass thicknesses which are not available as single panes and therefore have to be manufactured as laminated glass.

Inter layer out of polyvinyl butyral (PVP) cannot assign loads lossless from one glass layer to another. Therefore conventional laminated safety glasses have to be stronger dimensioned as the equivalent mono panes. DUROmare Glass arises through high-grade, thermally toughened single glasses which is consolidated with an Inoplat inter layer to a laminated safety glass. This new laminate can hold the load as a comparable single pane.

Characteristics

This results in beneficial properties for shipyards and shipping companies:

WEIGHT-saving

The thickness of the glass and thus the total weight of a glazing unit can be significantly reduced with DUROmare.

MULTI functional

Solar-filtering and heat protection requirements as well as sophisticated insulation can be factored into the DUROmare glass. In the following example, we compare standard insulating glass with solar-filtering and heat protection properties with type 86 DUROmare.

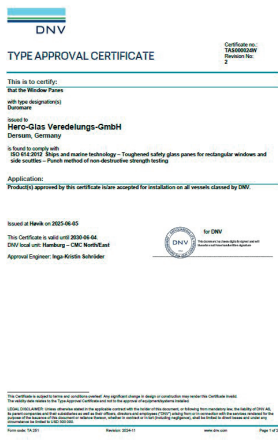
CHARACTERISTICS in comparison

DUROmare (proofed by DNV GL)				
Type		Size (mm)	Weight (kg/m ²)	Proof loading (KN)
64		11,52	26,44	15,5
	Reduction	-4,0%	-11,9%	
66		13,52	31,44	24
	Reduction	-9,9%	-16,2%	
86		15,52	36,44	33,4
	Reduction	-18,3%	-23,3%	
126		19,52	46,44	53
	Reduction	-21,9%	-25,7%	



compared

Tempered safety glass (single pane)		
Size (mm)	Weight (kg/m ²)	Proof loading (KN)
12	30	15,5
15	37,5	24
19	47,5	33,4
25	62,5	53



Also approved for:

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