

SIDE SCUTTLE



Standard	ISO, BSMA & JIS
Material	Al-Alloy, Brass, Steel & Stainless Steel
Method of fitting	Welded and Bolted
Type	Non-Opening & Opening, Etc.
Glass	Toughened , Heated , Double Glazing, Laminated, Etc.
Accessories	Insect Screen, Sun Screen, Roller Blind, Hanger, Etc.
Nominal size	200, 250, 300, 350, 400 & 450 DIA

RECTANGULAR WINDOW



Standard	ISO, BSMA & JIS
Material	Al-Alloy, Brass, Steel & Stainless Steel
Method of fitting	Welded and Bolted
Type	Non-Opening & Opening, Etc
Glass	Toughened , Heated , Double Glazing, Laminated, Etc.
Accessories	Insect Screen, Sun Screen, Roller Blind, Hanger, Etc.

FIRE RESISTANT WINDOW & SIDE SCUTTLE



Fire Resistant Window

Standard	IMO Resolution A.754(18), NORSOK, IGC CODE
Fire Integrity	H120, A60, A30, A0, B30, B15
Accessories	Window Box, Internal Blind
Fire Glass	Contraflam, Pyroswiss



Fire Resistant Side Scuttle

Standard	IMO Resolution A.754(18), NORSOK
Fire Integrity	A60
Accessories	Window Box, Internal Blind
Fire Glass	Contraflam

Type Approval Certificate : ABS, BV, DNV, LR, GL, KR, NK, RINA, CCS, USCG, MED, etc.

SOUND INSULATION WINDOW



Fire Integrity	Sound Insulation
H120 Class	54 dB
A60 Class	48~55 dB
A0 Class	40~53 dB
Non Class	31~54 dB

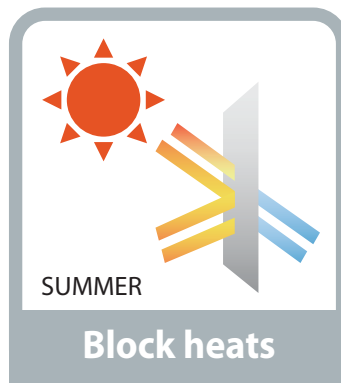
- Development of $R_w=55$ dB Window
- Obtained sound insulation data from 40 types of window

WINDOW FOR PASSENGER VESSEL



Standard	ISO, BSMA & JIS
Material	Steel & Stainless with extruded frame
Method of fitting	Welded
Type	Non-Opening
Glass	Toughened, Heated, Double glazed, Laminated, etc.

THERMAL INSULATION WINDOW



Glass	Clear Glass		Low-Emissivity Glass		Tinted Glass	
	Single	Double	Single	Double	Single	Double
Solar Factor (%)	0.8	0.69	-	0.47	0.48	0.61
U-Value (W/m²°C)	5.6	2.8	-	1.0	5.6	2.8
Light Transmittance (%)	88	78	-	69	63	64

- U-Value: Heat transmittance coefficient
- Solar Factor : Total Energy transmission