



TOTAL VISIBILITY SOLUTION

- VISIONAV™** Marine Windows
- CLEANAV™** Window Wiper & CVS
- SOLANAV™** Anti glare Sunscreen
- BLINNAV™** Blackout Blind



COMPANY INTRODUCTION

Since the establishment in 1986 Jung Gong has been specialized in manufacturing diversified range of marine window, window wiper, CVS, anti glare sunscreen and blackout blind.

The list of our customers covers all the shipyards in Korea, major shipyards in Japan, China, Taiwan, Singapore, Vietnam, India, Malaysia, USA, U.A.E, Saudi-Arabia, Egypt, Brazil, Rumania, Indonesia, etc(more than 20 nations).

As what we are mainly interested in is 'how to satisfy the customers in all respects', we will continue to make every endeavor not only to meet immediate requirement but also to cope with any demand in future.

Jung Gong Ind. Co., Ltd.



3Million USD Export
Commemoration Award



10Million USD Export
Commemoration Award



Bronze Industrial medal
Award



HEAD QUARTER AND 1ST FACTORY

- SITE 4,982m², BUILDING 3,088m²
- SHINPYUNG-DONG, SAHA-GU, BUSAN, KOREA
- DOUBLE GLAZING, FINAL WINDOW ASSEMBLY

HISTORY

- 1986** Established Jung Gong Ind. co., Ltd.
- 1991** Registered for Trading Business
- 1999** Obtained ISO 9002 System (DNV)
- 1999** Obtained CE Mark
- 2000** Designated as High Potential Export Company (Busan and Ulsan Small and Mid Enterprise Export Support Center)
- 2002** Conferred with 3Million USD Export Commemoration Award
- 2003** Obtained ISO9001/ISO14001/OHSAS18001 system(DNV)
- 2007** Conferred with 10Million USD Export Commemoration Award
- 2011** Awarded Bronze Industrial Medal from the Government
- 2013** Awarded Leading Company Certificate from the Government
- 2014** Awarded Merit Medal from the Government

Integrated management system



ISO 9001 Quality Management



ISO 14001 Environmental Management



OHSAS 18001 Health & Safety Management



2ND FACTORY

- SITE 4,704㎡, BUILDING 2,765㎡
- SHINPYUNG-DONG, SAHA-GU, BUSAN, KOREA
- PRODUCTION OF NONFERROUS FRAME : AL.ALLOY, BRONZE



3RD FACTORY

- SITE 4,948㎡, BUILDING 2,112㎡
- SONGJEONG-DONG, GANGSEO-GU, BUSAN, KOREA
- PRODUCTION OF METAL FRAME



4TH FACTORY

- SITE 2,314㎡, BUILDING 1,197㎡
- SHINPYUNG-DONG, SAHA-GU, BUSAN, KOREA
- PRODUCTION OF WIPER & CVS
- PRODUCTION OF ANTI GLARE SUNSCREEN

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

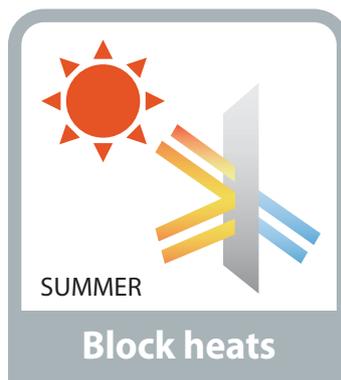
- Development of $R_w=55$ dB Window
- Obtained sound insulation data from 40 types of window

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

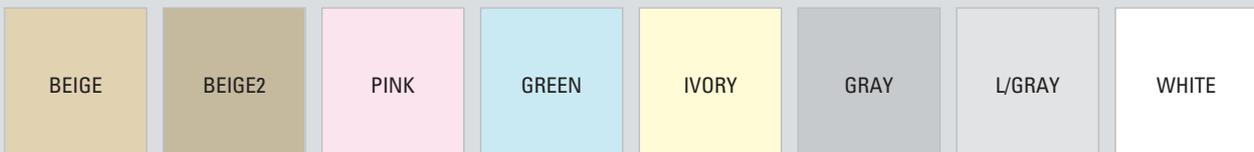
WINDOW BLIND SYSTEM

ADVANTAGE

- Improvement on design and space occupancy by combination of window box and blind.
- Combining the fuction of blackout and curtain.
- No screw to be exposed for elegant exterior.
- Design and color matched smoothly.
- Improving elements can make more valuable ships.
- Fabric not to be disjoined during opening and curtain.
- Easy installation and maintenance.
- Flame retardant tested according to FTP Code.
- MED certificated, ABS type approved.



FABRIC PATTERN & COLOR



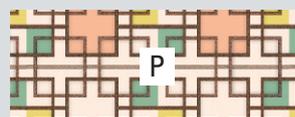
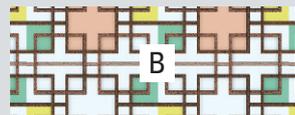
Nature Sound



Fuzzy Dream



Sea True



Jazac-Jazac



STRAIGHT LINE WIPER

Internal Motor Drive



External Motor Drive



Standard Parking System

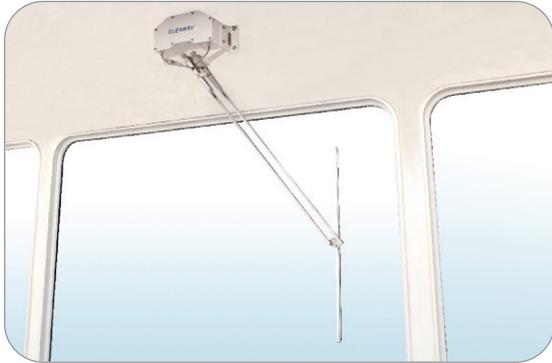


Curtain Parking System



Standard	ISO 17899	Arm Length / Blade Length	Max 1000mm
Location of Motor	Internal Motor Drive, External Motor Drive	Wipe Speed	Variable Speed, Fast/Slow/Intermittent Speed
Blade	Single Blade, Twin Blade	Voltage	AC110/220 Volts, 1Ph/3Ph
Parking System	Standard Parking System, Curtain Parking System	Control System	Group/Individual/Master Control System
Stroke Length	Max 3500mm	De-icing	De-icing Heater

PANTOGRAPH WIPER



Wipe arc	Max.90°
Arm length	Max.1000mm
Blade length	Max.1000mm
Wipe speed	Variable, Fast/Slow/Intermittent Speed
Voltage	AC110/220Volts, 1Ph or DC24V
Parking & De-icing	Automatic self parking & De-icing heater

CLEAR VIEW SCREEN



Standard	ISO 3904
Clear size	300, 350mm Diameter
Voltage	AC110, 220Volt-1Ph
Operating speed	1800±200rpm
De-icing	De-icing heater



<WIPER CONTROLLER>



<WIPER CONTROLLER>



<CVS CONTROLLER>

ADVANTAGE

AC Induction Motor

- Less noise during operation
- High efficiency & power
- Outstanding durability

User Interface Control System

- Optimum control system for maximum convenience

Global Service Network

- Anytime
- Anywhere
- Anything

Fast Wiping Speed

- Fast speed : 76m/min
- Slow speed : 38m/min
- In comply with rule (68m/min)

Installation Method

- Easy installation of Wiper
- Easy installation of Arm

Total Visibility Solution

- Window, Wiper, CVS, Sunscreen, Window box Package system

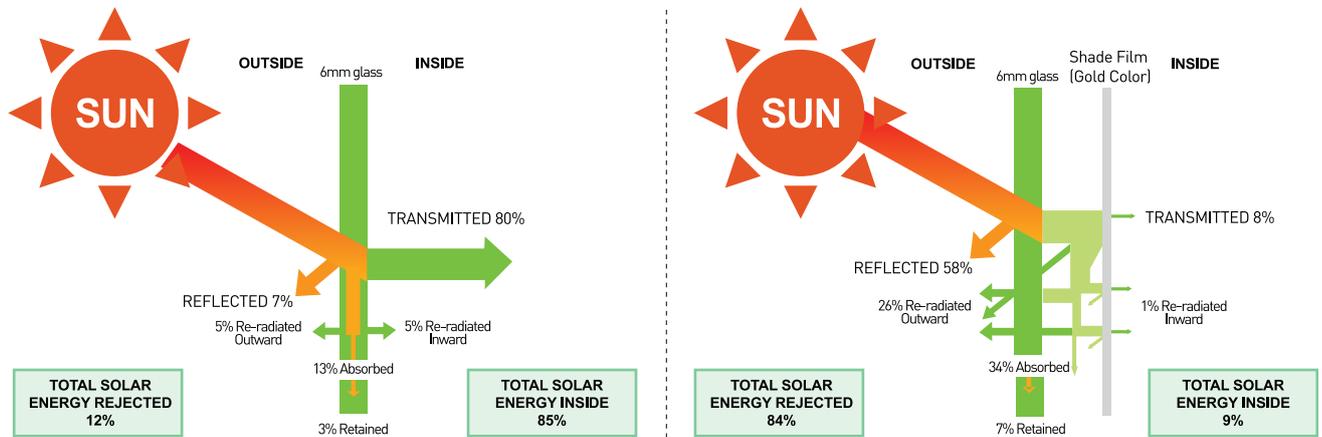
Longer Blades, Arms & Stroke

- Max blade length : 1000mm
- Max arm length : 1000mm
- Max stroke length : 3500mm

Design of Wiping system

- Optimum design considering W/H structure and outdoor environment

PERFORMANCE OF SOLANAV™ SHADE FILM



SHADE FILM... For Your Place In The Sun.

For solar and fade protection, you can have it made in the shade with shade films. Used in Anti Glare Sun Screen, these light filtering film rise to the occasion when it comes to versatility and performance.

Shade films are manufactured in a variety of transparent constructions, each incorporating polyester films impregnated with ultraviolet absorbers that reject up to 99% of damaging UV radiation.

So they block out the sun's damage without blocking out the view. These films are available in reflective, semi-reflective and non-reflective constructions. On SOLANAV™ Anti Glare Sun Screen, reflective shade films are available.

Reflective shade films provide the greatest solar energy control and daytime privacy. To maximize solar energy rejection, these laminates contain an aluminum metallized layer which is either visible or hidden between layers of dyed film.

PERFORMANCE DATA OF SHADE FILM

FILM COLOUR	Gold	SILVER	GREY	BRONZE
% Total Solar Energy Rejected	84	84	64	61
% Glare Reduction	94	92	92	85
% Visible Light Transmittance	5	7	7	13
% Ultraviolet Light Rejected	99.9	99.3	99.9	99.9



DEFINITIONS OF SHADE PERFORMANCE TERMS

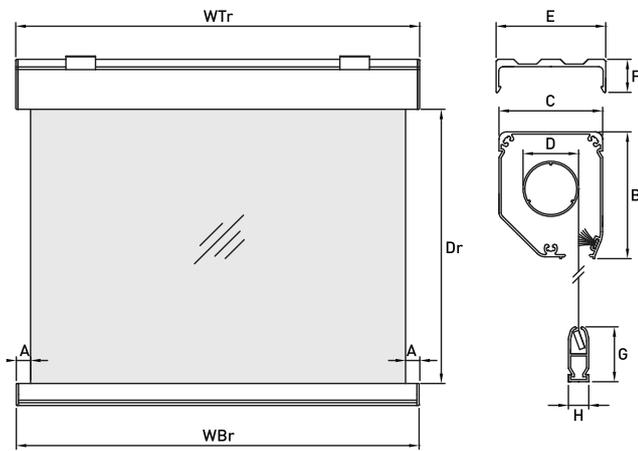
Total solar Energy Rejected(TSER) Percentage of the solar energy in the total solar spectrum that is reflected or absorbed by the window and associated window treatments.

Visible Light Transmittance(VLT) Percentage of visible solar energy that is allowed to pass through a window and associated window treatments.

Glare Reduction(GR) Percentage of visible solar energy that is not allowed (rejected) to pass through a window and associated window treatments. The near opposite of Visible Light Transmittance.

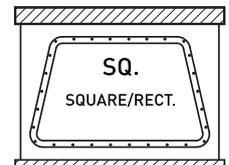
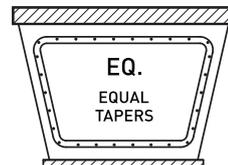
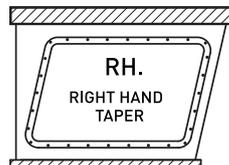
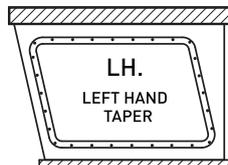
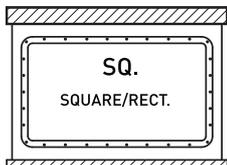
Ultraviolet Light Rejected(UVLR) Percentage of ultraviolet solar energy that is rejected.

DIMENSIONS OF ANTI GLARE SUN SCREEN



Description	WTr < 2800mm	WTr ≥ 2800mm
DIMENSION A	19mm	19mm
DIMENSION B	68mm	78mm
DIMENSION C	56mm	64mm
DIMENSION D	ø30mm	ø38mm
DIMENSION E	59mm	67mm
DIMENSION F	18mm	18mm
DIMENSION G	30mm	30mm
DIMENSION H	11mm	11mm
MIN. WIDTH(WTr)	450mm	450mm
MAX. WIDTH(WTr)	2800mm	3500mm
MIN. DROP(Dr)	250mm	250mm
MAX. DROP(Dr)	3000mm	3000mm

SCREEN SHAPES AVAILABLE



ROLLER OPERATING MECHANISMS



Tension Spring Operation(Rope Type)



Side Chain Operation(Chain Type)

Hints on Tension Spring Operation

- Do not allow the blind to retract quickly by itself. Always control the speed of ascent by holding onto the pull cord.



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