



## 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.



3 Million USD Export Commemoration Award



10 Million USD Export Commemoration Award



Bronze Industrial medal Award



## 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 3 Million USD Export Commemoration Award
- 2003 Obtained ISO9001/ISO14001/OHSAS18001 system(DNV)
- 2007 Conferred with 10 Million 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
- 2022 Awarded Excellent Company Certificate from the Government

## Integrated management system



ISO 9001 Quality Management



ISO 14001 Environmental Management



ISO 45001 Health & Safety Management



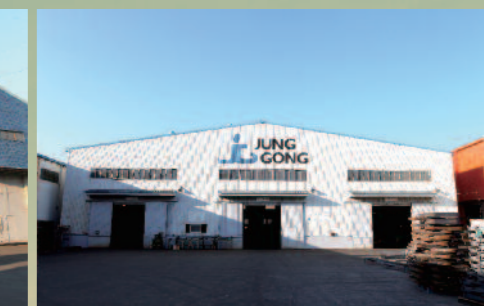
### HEAD QUARTER AND 1ST FACTORY

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



### 2ND FACTORY

- SITE 4,704㎡, BUILDING 2,765㎡
- SHINPYUNG-DONG, SAHA-GU, BUSAN, KOREA
- PRODUCTION OF NONFERROUS FRAME : AL,ALLOY, BRONZE
- DOUBLE GLAZING, FINAL WINDOW ASSEMBLY



### 3RD FACTORY

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

## SIDE SCUTTLE



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

## RECTANGULAR WINDOW



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

## FIRE RESISTANT WINDOW & SIDE SCUTTLE



### Fire Resistant Window

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



### Fire Resistant Side Scuttle

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

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

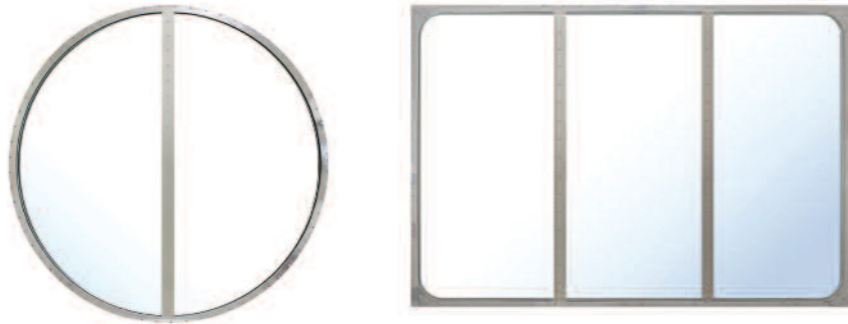
## SOUND INSULATION WINDOW



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

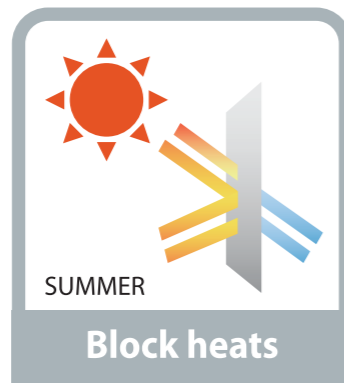
· Development of  $R_w=55$ dB Window  
· Obtained sound insulation data from 40 types of window

## WINDOW FOR PASSENGER VESSEL



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

## THERMAL INSULATION WINDOW



Glass	Clear Glass		Low-Emissivity Glass		Tinted Glass	
	Single	Double	Single	Double	Single	Double
<b>Solar Factor (%)</b>	0.8	0.69	-	0.47	0.48	0.61
<b>U-Value (W/m<sup>2</sup>°C)</b>	5.6	2.8	-	1.0	5.6	2.8
<b>Light Transmittance (%)</b>	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 function 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

BEIGE	BEIGE2	PINK	GREEN	IVORY	GRAY	L/GRAY	WHITE
Nature Sound	Fuzzy Dream	Sea True	Jazac-Jazac				

## STRAIGHT LINE WIPER

Internal Motor Drive



External Motor Drive



Standard Parking System



Curtain Parking System



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

## PANTOGRAPH WIPER



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

## CLEAR VIEW SCREEN



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

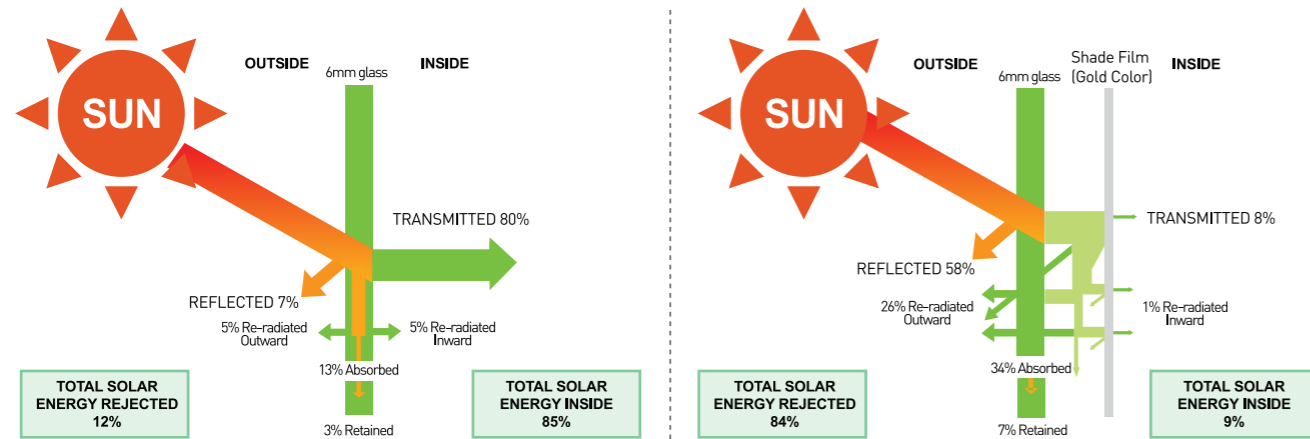
### Longer Blades, Arms & Stroke

- 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.

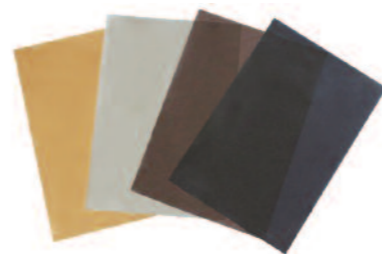
Shade films are manufactured in a variety of transparent constructions, each incorporating polyester films impregnated with ultraviolet absorbers that reject up to 99% of damaging UV radiation.

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

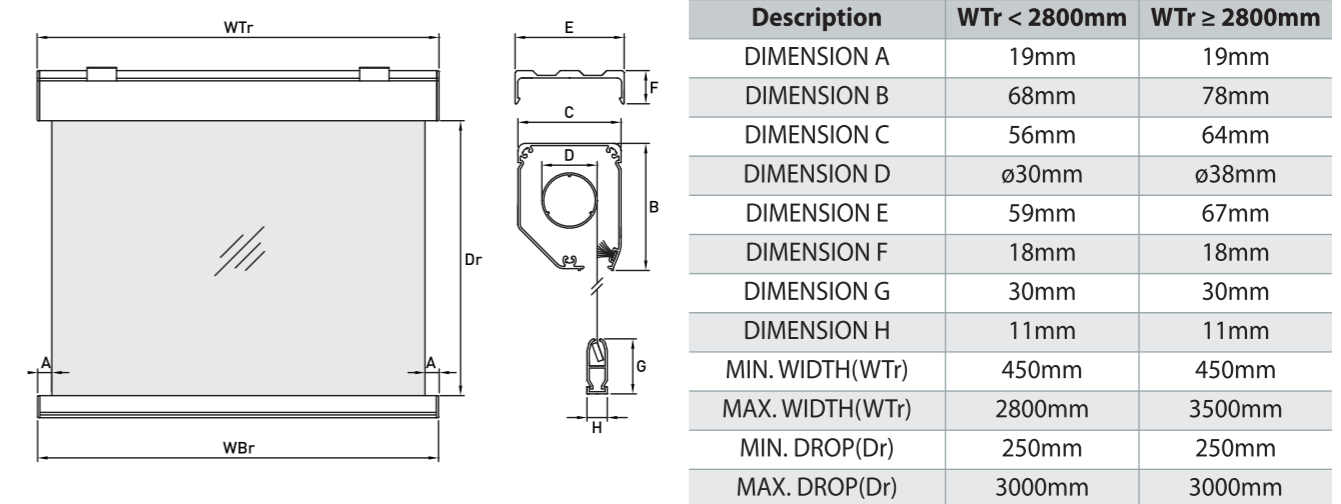
**Total solar Energy Rejected(TSER)** Percentage of the solar energy in the total solar spectrum that is reflected or absorbed by the window and associated window treatments.

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

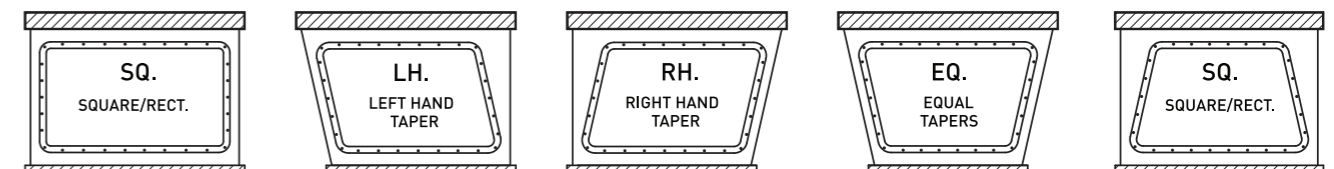
**Glare Reduction(GR)** Percentage of visible solar energy that is not allowed (rejected) to pass through a window and associated window treatments. The near opposite of Visible Light Transmittance.

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

## DIMENSIONS OF ANTI GLARE SUN SCREEN



## 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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