Certificate Number: BK-374169-X

Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 08/AUG/2003 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

Jung Gong Ind. Co., Ltd.
Model Name(s): JG-A0-255

Presented to:
Jung Gong Ind. Co., Ltd.
546, Shinpyong-Dong
Saha-Ku
Busan
Korea, Republic of

Intended Service:	For use on Ships and Offshore Installations
Description:	JG-A0-255: A-0 Class Fixed Square Window(Size: 1700mmW X 1500mmH)
Ratings:	"A" Class Division
Service Restrictions:	Unit Certification is not required for this product.
Comments:	Our approval is based on that the above material has been tested and certified by Fire Insurers Laboratories of Korea(FILK)
Notes / Documentation:	
Term of Validity:	Certificate 01-BK213223/1-PDA, dated 28/Jul/2006 is valid for 5 years from date of issue or until the applicable Rules or standards are revised (whichever occurs first). Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted.
ABS Rules:	2006 Steel Vessel Rules 1-1-4/7.7
National Standards:	
International Standards:	IMO Resolution A. 754(18) in conjuction with SOLAS 1974, as amended
Government Authority:	
EUMED:	
Others:	

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Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

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MARINE DIVISION
17 Bis Place des Reflets - La D-fense 2
92400 Courbevoie - France
Tel. 33 1 42 91 52 91
Fax 33 1 42 91 28 94

Published on http://www.veristar.com

Certificate N°:
09539/B0 EC
File Number : ACI 6000/024/003
MED item number : **A.1/3.25**
This Certificate is not valid where presented without the full attached Schedule,composed of 10 sections.

EUROPEAN COUNCIL DIRECTIVE 96/98 EC on MARINE EQUIPMENT (M.E.D.)

EC TYPE EXAMINATION CERTIFICATE

(CERTIFICATE OF TYPE APPROVAL)

This is to certify that Bureau Veritas, acting within the scope of its notification , did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the International Instruments and testing standards under the requirements of Council Directive 96/98/EC, as amended.

WINDOWS AND SIDE SCUTTLES
A-0 Class Fire Resisting Fixed Window - Type "JG-A0-255"

MANUFACTURED BY:

JUNG GONG IND. CO., LTD.
BUSAN - KOREA (REPUBLIC OF)

REGULATIONS & STANDARDS in accordance with Council Directive 96/98/EC, as amended by Commission Directive 2002/75/EC :
SOLAS 74 Convention, as amended, Regulation II-2/9.4.1.3 - IMO MSC/Circ 847 - IMO Resolution A.754(18) - IMO Resolution MSC. 61(67) Annex 1, Part 3 - ISO 614 (1989) - ISO 1095 (1989) - ISO 1751 (1993) - ISO 3254 (1989) - ISO 3903 (1993) - ISO 3904 (1994) - IMO MSC/Circ 1004.

Expiry date: 11/05/2010

Local Office : BUREAU VERITAS PUSAN

K.H. Lee
BVN Lead Surveyor

At Paris la D-fense, on : 11/05/2005

J.BENOIT
Marine Equipment Certification Manager
For BUREAU VERITAS, EC Notified Body N°0062

BUREAU VERITAS - DISTRICT OF KOREA - PARIS 1828 - INTERNATIONAL REGISTER

The Manufacturer is allowed to affix the MED Conformity Mark to approved equipment and issue a Declaration of Conformity, only when the production/product assessment module referred to in the Directive 96/98/EC, is fully complied with.
This Certificate remains valid until its date of expiry, unless cancelled or revoked, providing the conditions in the attached Schedule are complied with and the equipment remains satisfactory in service.This Certificate does not apply to equipment which has been modified from the specimen tested. Should the specified standards be amended during the validity of this Certificate, the product(s) is/are to be re-approved prior to it/they be placed on board vessels to which the amended standards apply.
This Certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.
Issued under the authority of the French Maritime Administration.

BUREAU VERITAS
MARINE DIVISION

File Number : ACI 6000/024/003

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

A-0 Class Fire Resisting Fixed Window - Type "JG-A0-255"

Max. clear size: 1700 mm x 1500 mm (width x height)
The window construction consists of a fire glass "CONTRAFLAM N2 LITE" (thickness: 16 mm, glass + gel + glass) and a pressure glass (thickness: 10 mm) separated by an air gap (thickness: 12 mm).

NB: Pressure glass on unexposed side to fire.

2. DESIGN DRAWINGS and/or SPECIFICATIONS

2.1 - As per the Manufacturer's drawings N° JG-A0-255 dated Nov 11, 1999.

2.2 - Manual(s) for installation, use and maintenance is/are to be stamped by the Society's Surveyor and supplied in the language prescribed by the Maritime National Administration to whom the ship is registered.

2.3 - Manufacturing documentation to be stamped by the Society's Surveyor.

3. TYPE TEST REPORTS / LABORATORY RECOGNITION STATUS

Test report N° 991496 dated 31.12.1999 as per IMO A754 (18) Resolution from F.I.L.K., Korea.

4. MATERIALS or COMPONENTS REQUIRED TO BE TYPE APPROVED or TYPE TESTED

4.1 - Glass type "CONTRAFLAM N2 LITE" manufactured by Vetrotech Saint-Gobain Exprover.

4.2 - Pressure glass manufactured by Hankuk Glass Ind. Co., Ltd.

Non-combustibility of glass in accordance with Annex 2 Paragraph 1 FTP Code (without testing).
EC Certificates: to be issued.

5. OTHER MATERIALS and/or COMPONENTS

5.1 - Glass frame & Main frame: Mild steel.

5.2 - Gasket: silicone rubber.

6. APPLICATION / LIMITATION OF USE

6.1 - Pressure glass side on unexposed side to fire.

6.2 - Approval also valid for ships having to comply with Regulations stated on the front page of the certificate, and for units having to comply with IMO Resolution A.649 (The "MODU Code").

7. PRODUCTION SURVEY REQUIREMENTS

7.1 - Arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visit of the Manufacturer's premises and product audits.

7.2 - The production conformity assessment module shall either be "D, Production Quality Assurance" or "E, Product Quality Assurance" or "F, Product Verification".

BUREAU VERITAS - DISTRICT OF KOREA - PARIS 1828 - INTERNATIONAL REGISTER

7.3 - Each manufactured equipment is to bear the ⎈ conformity mark and number of the Notified Body undertaking surveillance module, subject to the authorization of this Notified Body.

7.4 - Each equipment or batch of equipment is to be supplied with its manual (or instructions) for installation, use & maintenance in the language required by the Ship's Flag Administration.

8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

8.1 - The Manufacturer's instruction manual should be kept on board.

8.2 - The fitting aboard to be the same as used for the test.

9. MARKING FOR IDENTIFICATION

- ⎈ conformity mark and number of the Notified Body undertaking surveillance module (where BV, 0062).
- Last two digits of year mark affixed.

10. OTHERS

10.1 - This approval is given on the understanding that the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

10.2 - This certificate supersedes EC Type Examination Certificate n° 09539/A0 EC issued on 04/02/2000 by the Society.

*** ***Last page (End of Document)*** ***

BUREAU VERITAS PUSAN

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-17564
This Certificate consists of 2 pages

This is to certify that the

Window and Glass Partition

with type designation(s)

A-0 CLASS WINDOW (JG-A0-255)

Manufactured by

Jung Gong Ind. Co., Ltd.
Pusan 604-030, Korea, Republic of

is found to comply with
Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended
Det Norske Veritas' Rules for Classification of Ships
Det Norske Veritas' Offshore Standards

Application
The window is approved for use as an integrated part of fire retarding bulkheads of class A-0. Fire against the fire proof Contraflam N2 Lite glass. Max. size of each exposed fire technical glazing unit:1700mm x 1500mm (width x height).

Place and date
Høvik, 2004-06-10
for DET NORSKE VERITAS AS

K. Urdahl
Kristin Urdahl
Head of Section

Local Office
DNV Kobe

This Certificate is valid until
2008-06-30

Liv T Haugen
Liv Tesli Haugen
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million.In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

Cert. No.: F-17564
File No.: 471.75

Product description

"A-0 CLASS WINDOW (JG-A0-255)"
constructed of a 10-mm toughened pressure glass and 16-mm fire proof Contraflam N2 Lite glass, spaced 12 mm apart by an aluminium spacer, the air gap containing dehydrated air. The window pane is fitted in a 12-mm mild steel frame with silicone rubber gasket and fixed by a 5 x 38-mm SUS 304 glass retaining frame, screwed to the steel frame by 15-mm M6 bolts spaced 75-mm apart. Total window thickness 38-mm.

Application/Limitation

The window has only been evaluated with respect to fire technical properties (e.g. strength requirements have not been considered). Arrangement and location of any window is subject to approval from relevant authorities in each case.

Hose stream test and thermal radiation test were not carried out.
Each product is to be supplied with its manual for installation, use and maintenance.

Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.

Test report no. 991496 dated 31 December 1999 from FILK, Fire Insurers Laboratories of Korea.
Certificate Retention Survey Report dated 7 June 2004 from DNV Pusan.

Tested according to IMO FTPC Part 3 (IMO Res. A. 754(18)).

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating.

Certificate retention survey

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys at any time during the validity period of this certificate. The arrangement is to be in accordance with procedure described in item 4.3, Certification Note No. 1.2.

END OF CERTIFICATE

Approval Certificate

Germanischer Lloyd

This is to certify, that the product identified below has been tested in accordance with the relevant procedures as contained in the Fire Test Procedure Code (IMO-Res. MSC.61(67)) and was found in compliance with the applicable performance criteria contained in the specified standard.

Certificate No.	**15 561 - 00 HH**
Company	**Jung Gong Industri Co.,Ltd** **546 Shinpyong-Dong, Saha-ku** **Pusan, Korea**
Product Description	**A0 class fire resistant window JG-A0-255, maximum nominal size (width x height) 1700 x 1500, installation according to manufacturer's instruction**
Product Type	**Class A-0 window**
Approval Standard	**-IMO Res. A. 754(18)** **-IMO Res. MSC.61(67), Annex 1, Part 3**
Documents	**Test report No. : 991496 dated 1999-12-31 issued by Fire Insurers Laboratories of Korea**
Application	**The above product may be applied on ships classed with Germanischer Lloyd and on ships for which the Society is responsible for the issue of the relevant certificate required by the "International Convention for the Safety of Life at Sea, 1974" including amendments as authorized by contracting governments.**
Remarks	**None**
Valid until	**2010-05-29**
	The company must inform Germanischer Lloyd of any modification or changes to approved product in order to obtain a valid certificate.

Hamburg, 2005-05-30

Germanischer Lloyd

J. Schreiter A. Ullrich

The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable.
German law applies.

Germanischer Lloyd

Germanischer Lloyd AG • P.O. Box 11 16 06 • 20416 Hamburg/Germany

Jung Gong Ind. Co.Ltd.
Mr. J.H.Park
546 Shinpyong-Dong, Saha-Ku

Busan
Korea

Head Office Hamburg
Vorsetzen 35
20459 Hamburg/Germany

Phone +49 40 36149-0
Fax +49 40 36149-200
headoffice@gl-group.com
www.gl-group.com

Your reference	*Your letter of*	*Our reference*	*Extension*	*Date*
FS-02137	2005-03-03	05-031760/Ull	+49 40 36149-454	2005-05-30

Application for certificate renewal
Fax from our Pusan office ref. 05-1226/BJP dated 2005-03-14

Dear Sir,

Enclosed please find the newly issued approval certificate for your A-0 class window JG-A0-255.

Our invoice of fees will be submitted with separate mail.

Kind regards,

Germanischer Lloyd

Schreiter Ullrich

Chairman of the Supervisory Board: *Alfred Gossner* · **Executive Board:** *Hermann J. Klein* · *Rainer Schoendube*
Germanischer Lloyd Aktiengesellschaft, Registered Office Hamburg, HR B 31393
Place of performance and jurisdiction is Hamburg. The latest edition of the General Terms and Conditions of Germanischer Lloyd is applicable. German law applies.

TYPE APPROVAL CERTIFICATE

형 식 승 인 증 서

Certificate No. : GCH02198-FP005 **Date of Approval :** 3rd April, 2000.

Product : Fire Protection Window

Manufacturer : Jung Gong Industrial Co., Ltd.
546, Shinpyong-dong, Saha-ku, Busan, Korea

Product Description :
Type : JG-AO-255 (Fixed Square Window)
Grade : A-0 Class
Nominal Size : 1700 mm x 1500 mm (W x H)
Fire Glass : Contraflam N2 LITE, Thickness 16 mm
(Manufactured by Vetrotech Saint-Gobain Exprover, Belgium)
Pressure Glass : Toughened, Thickness 10 mm
(Manufactured by Hankuk Glass Ind. Co., Ltd.)
Drawing No. : JG-AO-255, JG-AO-187B

Approval Condition :
1. This approval is granted on the basis of the fire resistance test report No. 991496 issued by Fire Insurers Laboratories of Korea on Dec. 31, 1999.
2. No product certificate required.

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt. 8, Ch. 1, Sec. 1 of the Rules for Classification of Steel Ships, Ch. 3, Sec. 19 of the Guidance for Approval of Manufacturing Process and Type Approval, etc., FTPC Part 3 and IMO Res. A.754(18).

This Certificate is valid until 2nd day of April, 2010.

Issued at Daejeon, Korea on 18th April, 2005.

한 국 선 급
KOREAN REGISTER OF SHIPPING

(*Mann-Eung Kim*)
General Manager of
Materials and Equipment Team

Note : *1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or is not under attendance for completion of the renewal survey.*
2 : Any significant changes of products and/or manufacturing process render this certificate invalid.

CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Jung Gong Ind. Co. Ltd
Address	#546 Shinpyong-Dong Saha-Ku Pusan, 604-030 Republic of Korea
Type	**WINDOW (A-0) (STANDARD FIRE TEST)**
Description	Fire Resisting Window – Type: "JG-A0-255
Specified Standard	IMO Fire Test Procedures Code, Annex 1, Part 3

The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue	16 March 2005	Expiry date	15 March 2010
Certificate No.	SAS F050075	Signed	Signature DBP Korea Plan Approval Services, Pusan Lloyd's Register Asia
Sheet No	1 of 2	Name	M. Farrier Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."

Lloyd's Register EMEA
71 Fenchurch Street, London, EC3M 4BS
Telephone 020 7423 2940 Fax 020 7397 4246
Email dcg-stat@lr.org

Document number SAS F050075

Issue number 1

DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications
16 March 2005	LPA/SSS/FSS/FITA/JH

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F050075

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Fire Insurers Laboratories of Korea (FILK), Kyunggi-Do, Korea, Fire Test Report No. 991496, dated 31 December 1999.

CONDITIONS OF CERTIFICATION

1. Maximum clear opening size: 1700mm width x 1500mm height.
2. 38mm thick glass panel consisting of 16mm of fire proof glass (6mm tempered glass, 4mm alkalisilicate layer and 6mm tempered glass), 12mm void space and 10mm of toughened glass.
3. Glass fitted in windows and side scuttles for external use should, in addition to the required fire resisting ability, as appropriate, be of toughened quality and suitable to satisfy operational requirements of the location in which the glass is fitted. For example, consideration should be given to the 1966 Load Line Convention Regulation 20 – Side Scuttles.
4. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

PLACE OF PRODUCTION

Jung Gong Ind. Co. Ltd
#546 Shinpyong-Dong
Saha-Ku
Pusan, 604-030
Republic of Korea

Signature DBP
Korea Plan Approval
Services, Pusan
Lloyd's Register Asia

Lloyd's Register

Martin Farrier
Senior Surveyor
Fire & Safety Section
Statutory & Structures Services
London Plan Approval
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).

NIPPON KAIJI KYOKAI

Certificate

OF

APPROVAL

Certificate No.
05EQ36FPA(R)

Item	:	A-0 class window
Type	:	JG-A0-255
Specification	:	See Annex.
Manufacturer	:	Jung Gong Ind. Co., Ltd. #546, Shinpyong-dong, Saha-ku, Pusan, Korea
Maximum size	:	1700mm×1500mm (width×height)
Limitation	:	1. Products of the type should not be used for the spaces specified in Part C/23.5.2-1 and -2 of the Society's Rules for Survey and Construction of Steel Ships, unless they are certified to be complied with the requirements given in the same provisions. 2. The top of frame of the window is to be located at a height of 2050 mm or less above floor level.
Testing standard	:	IMO FTP Code Annex1 / Part 3
Test report		
Test laboratory	:	Fire Insurers Laboratories of Korea
Report number	:	991496

THIS IS TO CERTIFY that the above type of products has been approved by Nippon Kaiji Kyokai with type approval No. 00FPA2DA and that products of the type will be accepted for use onboard ships classed with the Society for compliance with the relevant requirements of the Society's *Rules for the Survey and Construction of Steel Ships* and those of the *International Convention for the Safety of Life at Sea, 1974, as amended,* subject to approval of the flag Administration and conditional upon that the manufacturers have a quality control system audited by a competent authority to ensure continuous compliance with the type approval conditions..

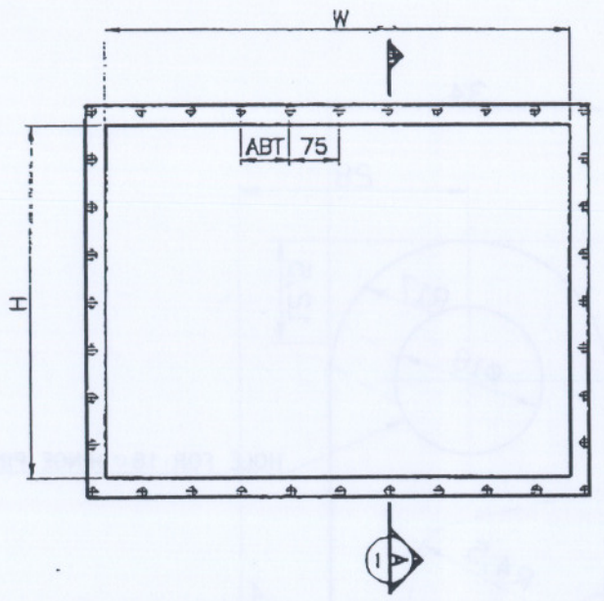
This certificate is valid from 26th January 2005 until 25th January 2010.
Issued at Tokyo on 8th February 2005.

NIPPON KAIJI KYOKAI

H. Kitada
General Manager
Material and Equipment Department

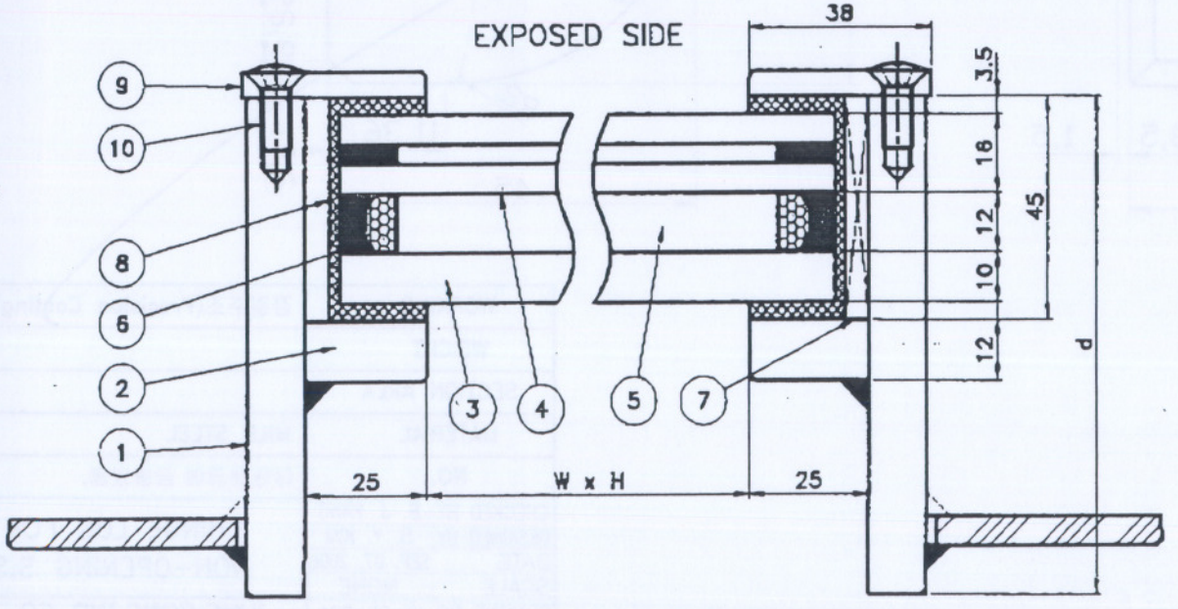
Initial approval date : 26th January 2000

DIMENSION TABLE			UNIT:mm	PAGE: /
TYPE OF NO.	NOMINAL SIZE W x H	PRECUT HOLE W1 x H1	d	Q'TY
JG-A0-255	1700 x 1500	1778 x 1578	100	



SECTION (A)

EXPOSED SIDE



NO	DESCRIPTION	MATERIAL	Q'TY	REMARK
10	SCREW	SUS 304		M6x15
9	GLASS RETAINING FRAME	SUS 304	1	5Tx38
8	GASKET	SILICONE RUBBER	1	
7	SETTING BLOCK	HARDBOARD		
6	SPACER	AL. ALLOY	1	
5	SPACE	DEHYDRATED AIR		
4	A-0 GLASS	CONTRAFLAM N2 LITE	1	16T
3	PRESSURE GLASS	TOUGHENED	1	10T
2	GLASS STOPPER	MILD STEEL	1	12TX25
1	MAIN FRAME	MILD STEEL	1	12T

CHECKED BY	
DESIGNED BY	Y. L. K
DATE	MAY 11, 1999
SCALE	NONE
DRAWING NO	JG-A0-255

A-0 CLASS FIRE RESISTANT WINDOW (W/DOUBLE GLAZED UNIT)

JUNG GONG IND.CO.,LTD.

Certificate No. 05 EQ 3 FP A(R)