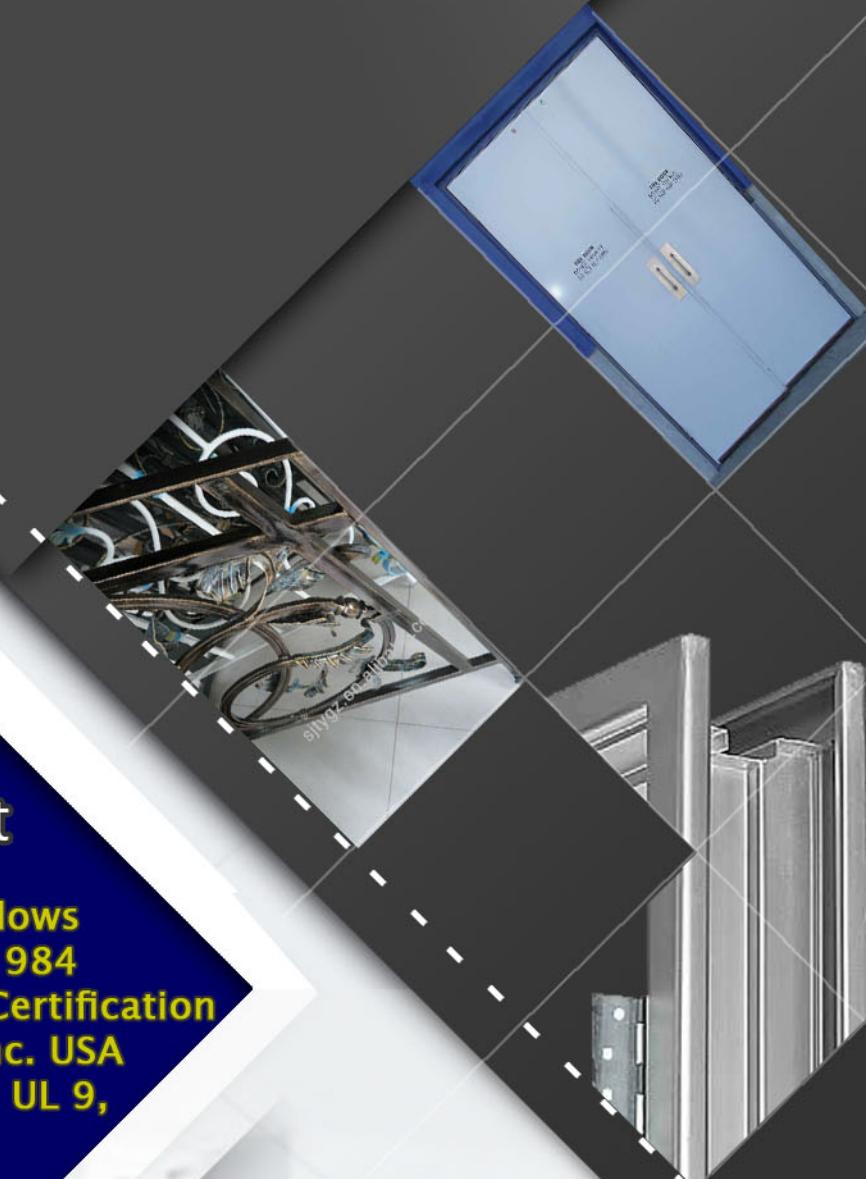


MARRYAT & SCOTT

EGYPT FACTORY

Marryat & Scott

**Fire Rated Steel Doors & Windows
Manufacture, Established in 1984
Marryat & Scott Have A Test Certification
from Intertek Laboratories Inc. USA
Very Similar to UL 10A/10B, UL 9,
UBC 7-2 & UBC 7-4**



Marryat & Scott

Egypt Factory

Marryat & Scott Egypt Factory was established in 1984 on 20,000 m² of land situated at KM 28 of the Cairo – Alexandria desert road. The factory production is specialized in manufacturing of all sheet metal work products including:

- Steel doors and frames
- Fire rated steel doors
- Fire and non-fire rated steel windows
- Fire steel doors and windows assembly mounted in a gypsum partition wall
- Vault and grill doors
- Sliding steel doors
- Stainless steel cladding doors

The factory is equipped with computerized and very modern specialized machines to produce very high technical products with excellent quality.

It is not by chance that we are specialized in fire rated doors, our long experience, the possibilities offered by our integrated studies and design office, enable us to satisfy customer's needs. The custom-made together with the complete range of fire-rated doors we manufacture are all evidence of this.

We have a test certificates from Intertek ETL SEMKO laboratories Inc. U.S.A. These certificates and approvals demonstrate our ongoing continued commitment to provide quality products and service to our customers

UL 10A/10B UBC 7-2 ASTM 2074

1- 120 MINUTE fire resistance test of hinged steel door was tested successfully by Intertek ETL SEMKO U.S.A met the conditions outlined in NFPA 252 standard methods which is identical or very similar to the following standard test methods

UL9 UBC 7-4 ASTM E 163

2- 120 MINUTE and 60 MINUTE fire resistance test of glass steel window assemblies was tested successfully by Intertek laboratories Inc. U.S.A accordance with NFPA 257 standard methods which is identical or similar to the following standard test methods

UL9 UBC 7-4 ASTM E 163

3- 60 MINUTE fire resistance test of a fire door and window assembly mounted in a gypsum partition wall tested successfully by Intertek laboratories Inc. U.S.A accordance with NFPA 252 and NFPA 257.



4- 90 MINUTE fire resistance test of a fire door and frame assembly was tested successfully by Intertek Laboratories Inc. U.S.A. accordance with NFPA 257 standard methods which is identical or similar to the following standard test methods

Certificates

Intertek

Certificate of Compliance

This is a certificate of conformity to satisfy that the below listed product has successfully undergone the following tests and requirements of the relevant standard(s) and/or clause(s) of the listing of products. The listed measurement of Test Facility, Procedure Control and/or equipment to determine the results of the test(s) are as follows:

Product: Kone 2 Hour Rib-Stiffened, Insulated, Steel Fire Door
 Measurement: 1224mm wide x 2400mm high
 Single Swing: 1220mm x 2400mm (3'7" wide x 8'0" high)
 Standard Pace: 2150mm x 2400mm (7'0" wide x 8'0" high)

Test Facility: Intertek Testing Services NA, Ltd.
 Procedure Control: UL10B
 Requirements: UL10B(2008) / UL10C(2015)

Organization: Kone Corporation - Manuf & Scott Egypt S.A.E.
 Abu Rawash Road, Kilo 28 Cairo Alexandria Desert Road
 Giza
 Egypt

Product: Kone 2 Hour Rib-Stiffened, Insulated, Steel Fire Door
 Measurement: 1224mm wide x 2400mm high
 Single Swing: 1220mm x 2400mm (3'7" wide x 8'0" high)
 Standard Pace: 2150mm x 2400mm (7'0" wide x 8'0" high)

Certification body: Intertek Testing Services NA, Ltd.
 Initial registration: April 1st, 2013
 Date of expiry: April 1st, 2018
 Issue status: 2

Dustin Behling
 Certification Coordination Manager

Name

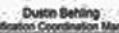
Signature

13th July 2018
 Date

Registered address:

Intertek Testing Services NA, Inc. 8431 Murphy Drive, Middleton, WI 53562 USA

This certificate is issued for the product(s) listed above. It is valid for the duration of the applicable certification or, where applicable, until the date of expiry. Please note that this certificate is not transferable to another organization. The only rights herein, the property of Intertek Testing & Certification Inc. shall not be exercised by any third party without the written consent of Intertek Testing & Certification Inc. This Certificate is the sole property of Intertek Testing & Certification Inc. and shall not be reproduced in whole or in part without the express written consent of Intertek Testing & Certification Inc. and shall be destroyed in the event of cancellation of the applicable test(s). Intertek Testing & Certification Inc. shall not be liable for any damages, losses, expenses, or costs resulting from the use of this certificate. Intertek Testing & Certification Inc. is not liable for any damages, losses, expenses, or costs resulting from the use of this certificate or for the possible use of incorrect information contained in this certificate and shall not be liable for the consequences of any such use.

	
<h1>Certificate of Compliance</h1>	
	
<p>You have been awarded:</p>	
<p>Intertek Warnock Hersey Mark for fire resistant doors and door sets</p>	
<p>ASTM E119-1a(L) 1000 (1991); CSDPM 43.7.LS-1000 (1987); ASTM E2074 (2000); NFPA-282 (2004); UL 813a (1990) (R1988); UL 1050 (Revised 1 (2000); UL 1050 (2004); UL 1050 (UL 814-2007))</p>	
<p>Certificate number: WHI13 - 21930702</p>	
<p>Organization:</p>	
<p>Kone Corporation - Maryati & Scott Egypt S.A.E. 20 Abu Bakr EL SEDOK Mohandessin Dokki, Giza EG 12411 Egypt</p>	
<p>Product: Kone 2 Hour Pressed Steel Fire Door Frames Maximum sizes 120 inches Single Swing: 3'6" wide x 8'0" high Standard Panels: 7'0" wide x 8'0" high</p>	
<p>Certification body: Intertek Testing Services NA, Ltd. Initial registration: April 1st, 2013 Date of expiry: April 1st, 2018 Issue status: 1</p>	
<p style="text-align: center;">  Dustin Behling Certification Coordination Manager Name </p>	
<p style="text-align: right;">  04/01/2013 Date </p>	
<p>Registered address: Intertek Testing Services NA, Inc. 8431 Murphy Drive, Milwaukee, WI 53212 USA www.intertek.com</p>	

Introduction

Steel Doors and Frames

Steel door and frame products have earned an enviable reputation with architects engineers and construction trade professional around the world. It provides a wealth of benefits and competing products. When specifying door and frame systems for your next project, consider the many demonstrated benefits of steel products.

Steel products are rugged, long lasting and offer great endurance through time. They resist environmental stress like heat and humidity that adversely impact other door and frame products. Steel products are easy to maintain and ensure virtually trouble free operation for many years. Steel doors and frame products are also an ideal solution to any degree of security.



To meet the varied needs of the construction industry, Marryat & Scott manufactures a wide range of steel door and frames for interior and exterior use. Marryat & Scott doors are the most reliable doors manufactured, by using only the highest quality materials and manufacturing techniques. Steel doors are produced in many sizes, gauges and designed to meet the needs of architects, owners and contractors.

Application of Doors and Frames

The application of Marryat & Scott door and frame products are appropriate and virtually limitless. From Apartments Buildings, Hotels, Schools, Courthouse, Office Buildings, Dormitories Military Barracks, Detention Centers, Prisons, Department Stores, Warehouses, Hospitals, Industrial Buildings, Airports, Convention Centers, and many more. Steel products have met and exceed expectations for decades.

The construction of Marryat & Scott doors and frames affords architects a remarkable degree of design freedom in nontypical situations, where a standard size or profiles product is inappropriate. With the proprietary steel construction techniques and capabilities of Marryat & Scott engineering, our design professionals have the opportunity to innovate and create virtually any solution and do so within a reasonable budget



Projects

Marryat & Scott factory has provided services to many prestigious projects in Egypt, few of these are:

1- Hotels

First Residence at Giza - Four Seasons Giza –Alexandria Renaissance – El Sheikh Coast Sharm El-Sheikh – Meridien Macadi Bey Hurghada – Four Seasons Nile Plaza – San Stefano Complex Alexandria



2- Cinemas

City Stars – Family Cinemas
Maadi – Alexandria City Center



3- Administrative Buildings

Enppi – Gupco Petroleum Co Maadi – Petroleum Air Line Services – PAS
Khalda–VodaFone 6th October City–Mobinil at Nile City– Smart Village– Pyramids Heights

4- Banks

Central Bank Egypt–Piraeus Smart Village– Audi Bank Pyramids Heights Barclays Kasr El Eini – Several Branches of Barclays – City Bank–United Arab Bank–Credit Agricole–Audi– BNP–CIB– National–Societe

5- Factories

Nestle 6th October City – Copack – Swiss Pharma- Novartis –Roussel Pharma
6th October City – Al Ezz Steel Rebars Co. El Saddat City – Alexandria National
Co. For Iron & Steel – Hot Strip Mill Al Ezz Ain Sukhna – Proctor & Gamble 6th
October City – Al Masrya for Cement Ain Sukhna – Domty 6th October City –
Suez Fertilizer



6- College

American College
at New Cairo



7- Malls

Maadi Grand Mall – Carrefour
Alexandria – Al Rehab Trade
Center



8- Airports

Engineering Base
Project 200B Egypt
Air – Marsa Allam
Airport

9- Power Stations

Cairo West – Al Arish – Ayoun Moussa – Nuclear Station Inshas –
EDF Suez Cairo Regional Control Center – EDF Port Said

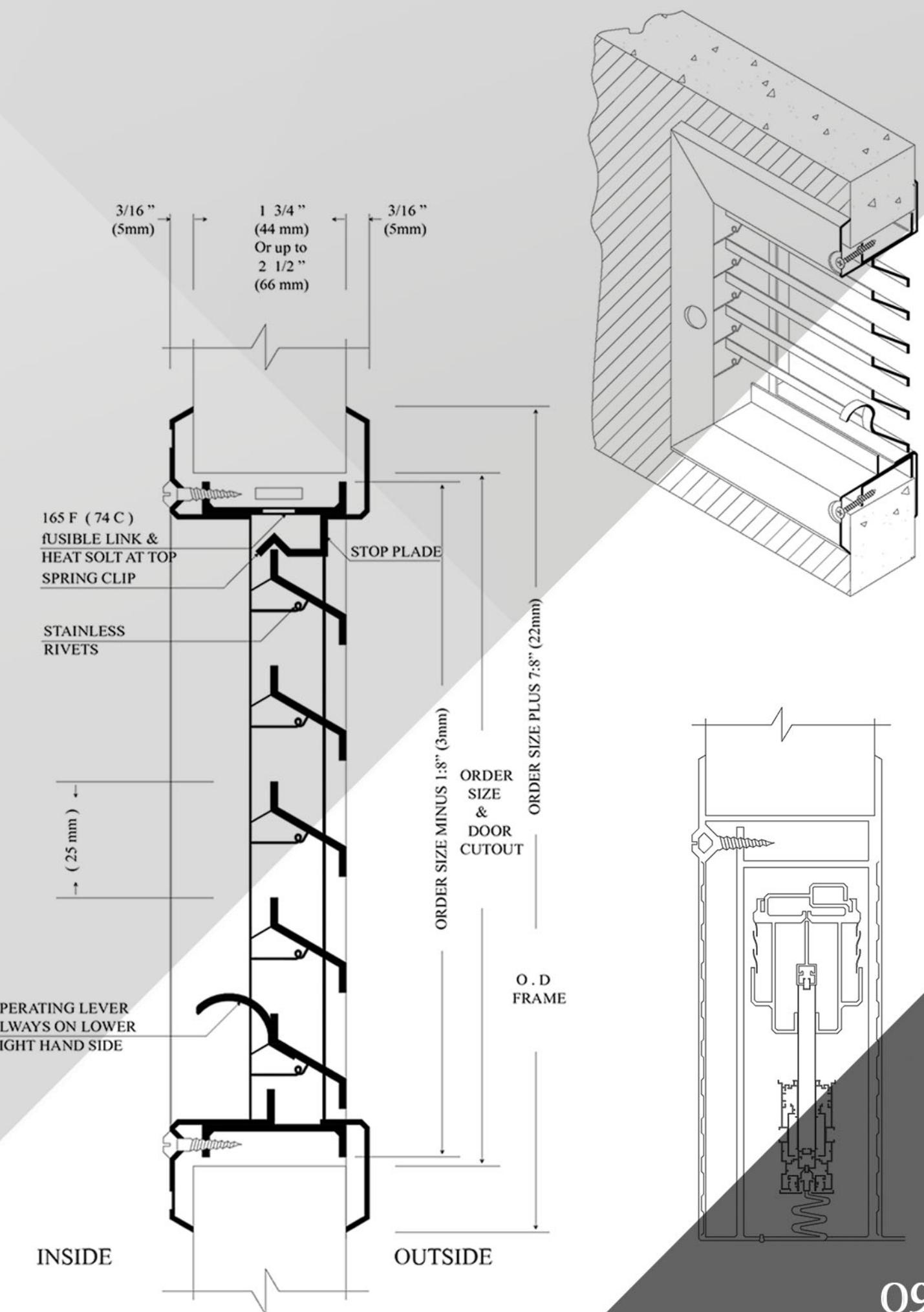
Basic Door Requirements

1. A fire door must have a label attached
2. A fire door must be self-latching
3. A fire door must be self-closing
4. If a fire door is held open, it must be equipped with a listed heat responsive device, fusible link or a smoke detection device.
5. A fire door must be free of any obstructions which could prevent the door from operating properly, i.r., wedge door stops, chains, hook backs and floor holder
6. Only fire door hardware shall be used
7. A fire door must have steel bearing type hinges

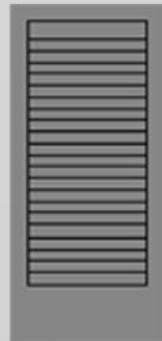


8. Doors swinging in pairs that required astragals shall have at least one overlapping astragals. Pairs of doors within a means of egress shall not be equipped with an astragal that inhibits the free use of either leaf. A coordinator or open back strike should be used to ensure proper closing
9. Fire doors with glass lights (vision panel)
 - A. The glass frame and glazing bead must be metal
 - B. The glass must be labelled wire glass not less than 1/4 in thickness or as permitted by the labelling agency
 - C. Maximum allowable glass area, 100 sq inch per door leaf
10. Fire doors with fusible link louvers
 - A. Only listed louver can be used
 - B. Maximum louver size is 24" x 24"
 - C. Louvers are not permitted to be installed in doors with fire exit hardware or in stairwell

FLDL-UL Fusible Link Louver Detailed Drawings



Door Types



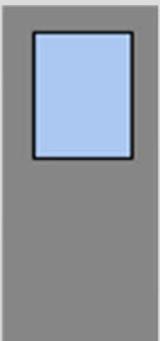
(FULL LOUVER)
FL



(VISION LITE)
V



(GLASS LOUVER)
GL



(HALF GLASS)
HG



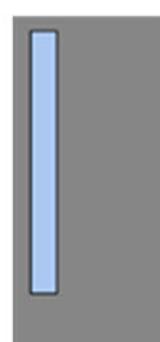
(FLUSH)
F



(NARROW LITE)
N



(DOUBLE LOUVER)
DL



(NARROW LITE 2)
N2



(BOTTOM LOUVER)
BL

Door Handling Legend

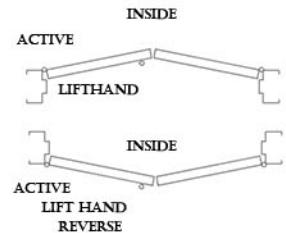
The term "Handing" or "Hand" of a door is applied to door, frames and hardware so as to indicate the direction of the swing of the door. Basically will either be Right Hand (RH) or Left Hand (LH). However, due to the door location and hardware we have to use



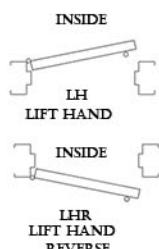
LEFT HAND REVERSE
HINGES ON LEFT, OPENS
OUTWARDS



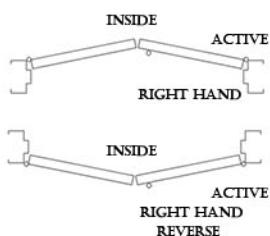
RIGHT HAND REVERSE
HINGES ON LEFT, OPENS
OUTWARDS



LEFT HAND REVERSE
HINGES ON LEFT, OPENS
INWARDS



RIGHT HAND REVERSE
HINGES ON LEFT, OPENS
INWARDS



Door Specifications

1. Door Construction

- Provide doors of 45mm thickness full flush construction fabricated from 1.5mm galvanized steel sheets.
- Face sheets shall be stiffened by vertical steel stiffeners 1.2mm thickness.
- Steel vertical stiffeners are placed no more than 150mm apart and welded no more than 150mm along their length.
 - Rock wool insulates the area between stiffeners.
 - Flush top channel and inverted bottom channel of 2.0mm steel thickness are welded to both faces sheets.
- Full flush doors are interlocked hairline seams on vertical edges and have no visible seams on faces.

2. Hardware Preparation

- Hinges preparation: Provide doors with 4.0mm thick steel hinge reinforcements with tapped holes welded to the door skins standard hinge preparation is to before 4 $\frac{1}{2}$ " x 4" three preparations through 2,286mm height and four preparations over 2,286mm up to 3,048mm height.
- Lock preparation: Provide doors with 3.0mm thick steel formed lock reinforcement with tapped holes welded to the door skin; provide internal hardware reinforcements as required for each lock as specified.
 - Closer and other reinforcements: Provide all doors with minimum 2.0mm steel reinforcement as necessary to support the hardware scheduled with tapped holes welded to the door skins.



Door Specifications

3. Glazing and louvers

- Where required by the plans, doors are prepared for installation of glazing and louvers.

4. Painting

- After fabrication provide doors thoroughly cleaned and coated with electrostatic, lacquer, duco, or epoxy. As per customer requirement



5. Fire protection

- Provide labelled fire rated doors with ratings as specified in the plans.
- Fire doors are to be manufactured by Marryat & Scott Factory in accordance with the approved procedures by Intertek.



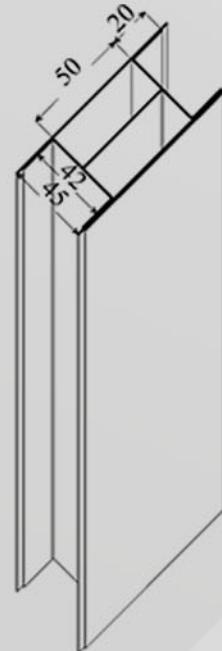
6. Labels

- Fire rated doors shall bear the appropriate labels.

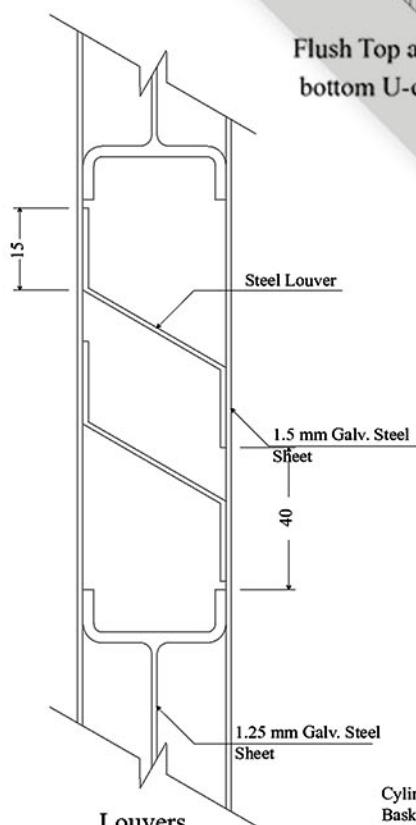
7. Installation

- According to the American standards

Doors Construction Features

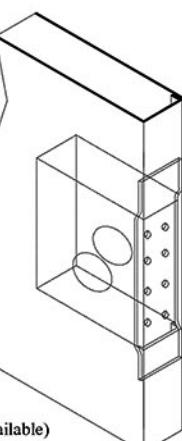


Flush Top and inverted bottom U-channels

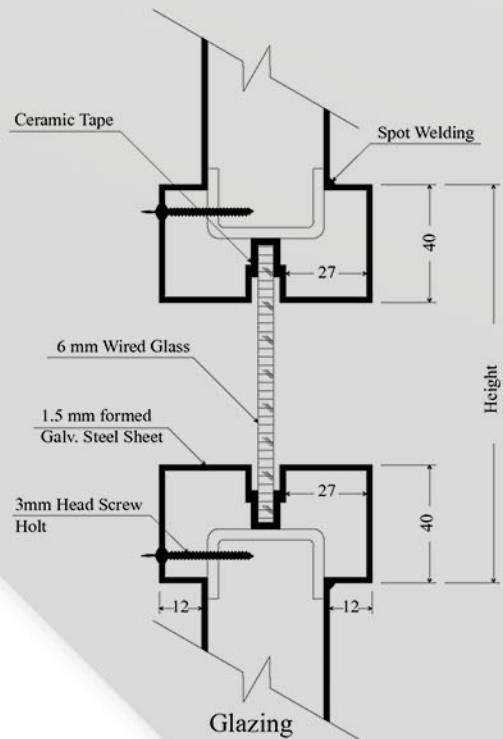


Cylindrical (70mm) Basket

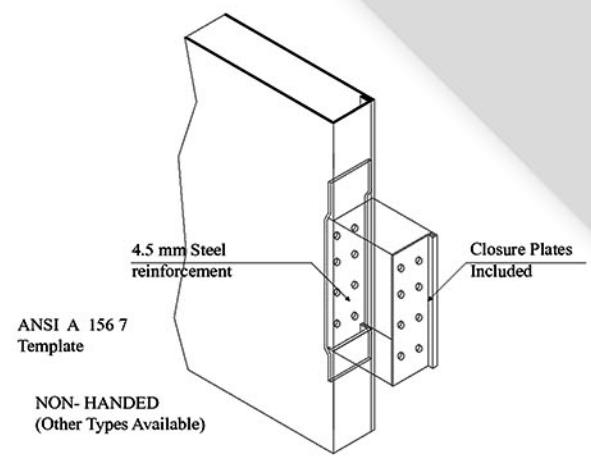
(Other Types Available)



lock strike Preparation

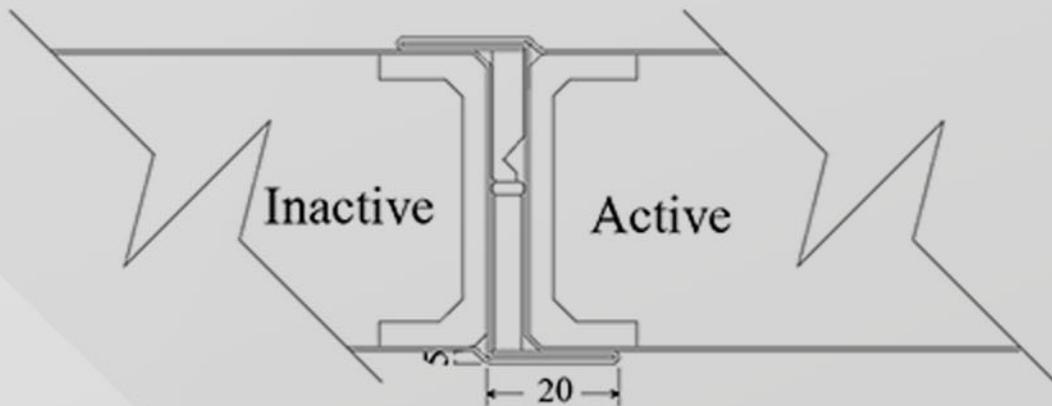


Glazing

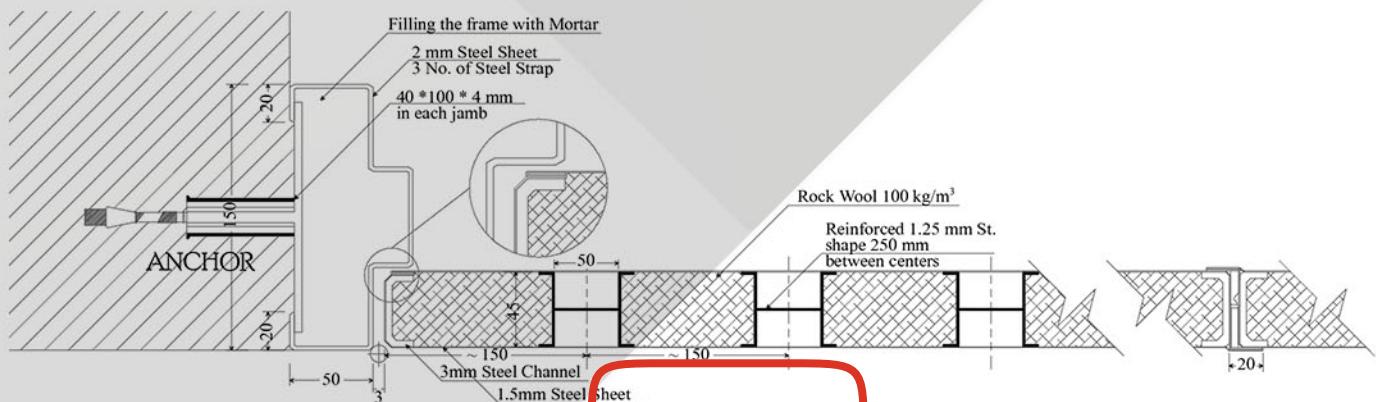


Hinge Preparation

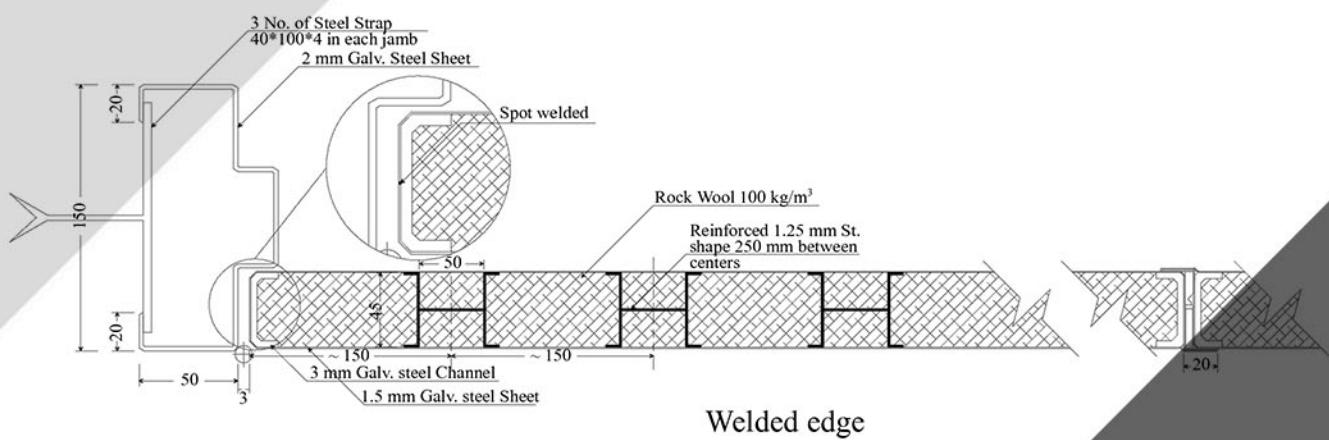
Types of Door Assembly



Overlapping Astragal



Interlock edge

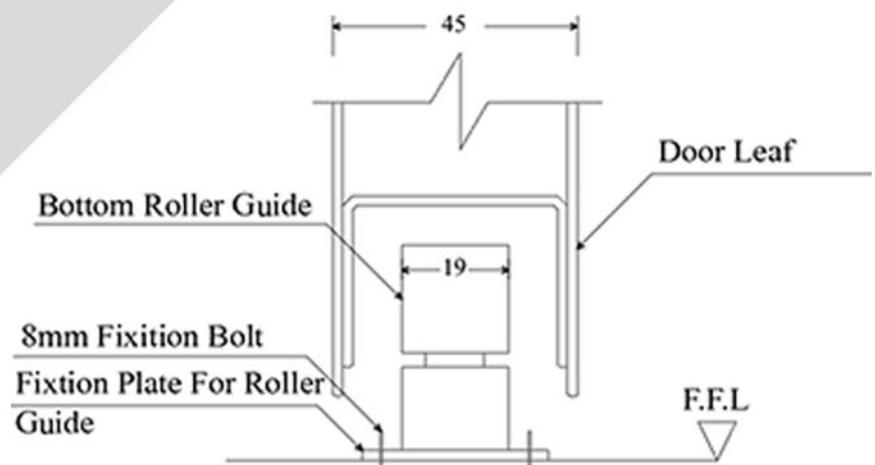
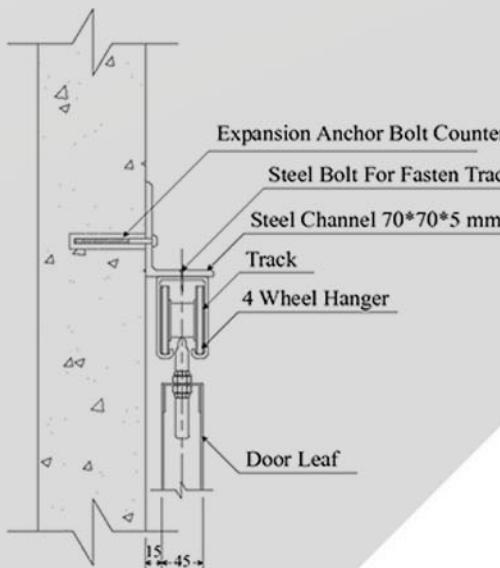
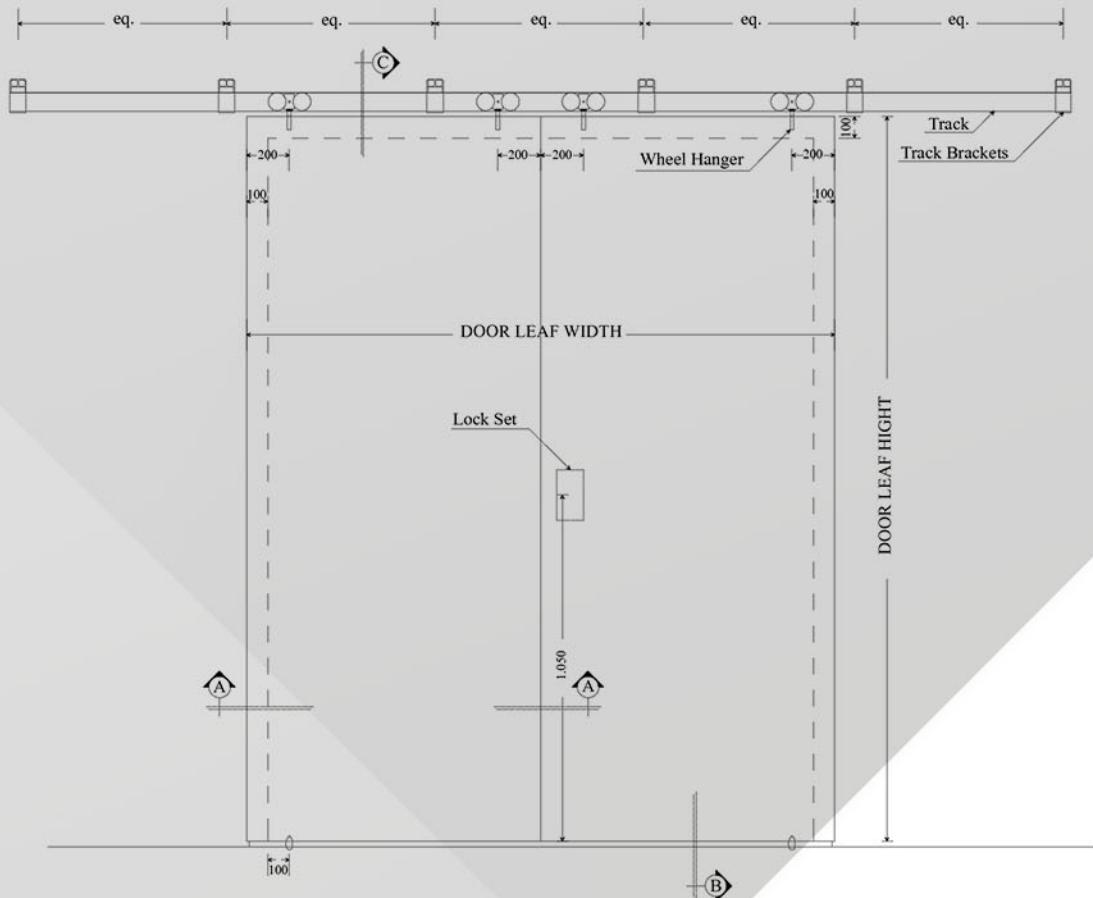


Welded edge

Sliding Door Types

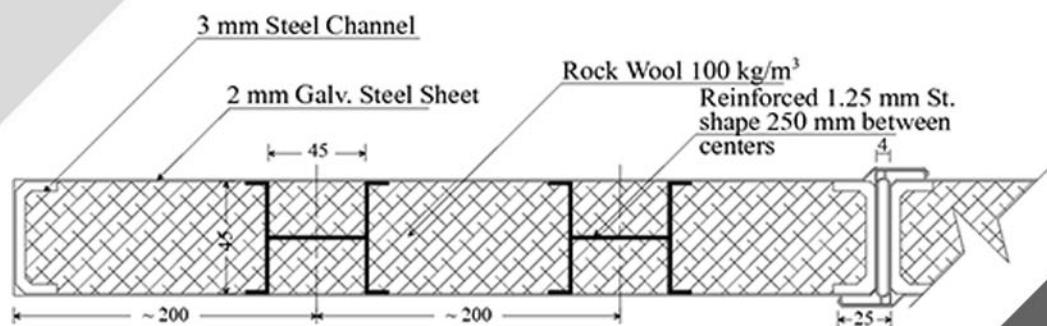
SD1 Manual





SECTION C - C

SECTION B - B



SECTION A- A

Frame Specifications

Door Frame Construction

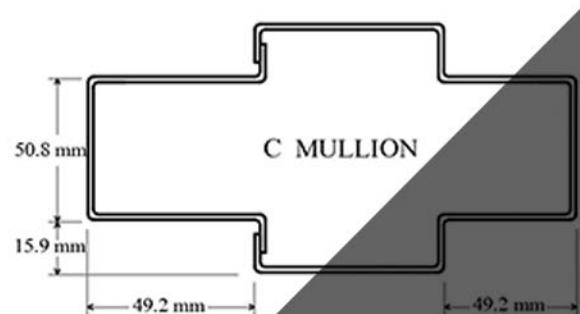
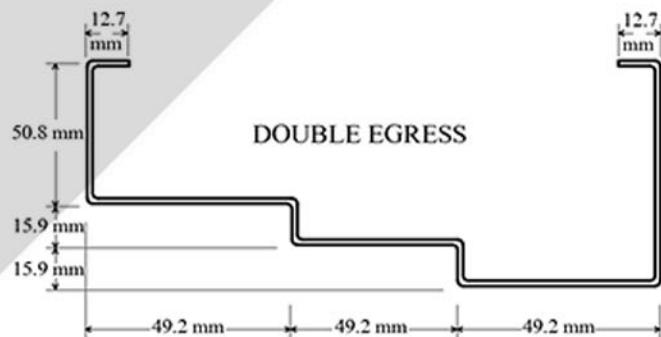
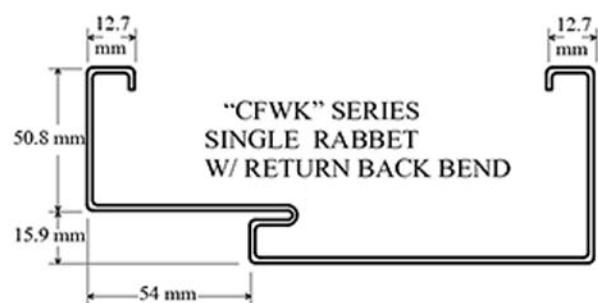
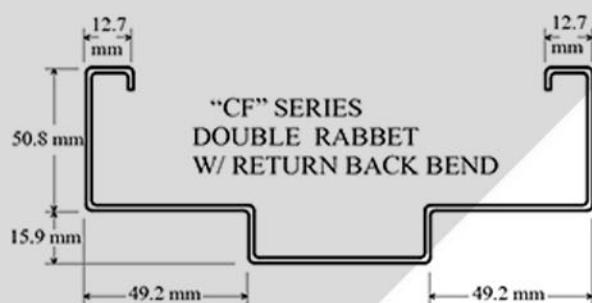
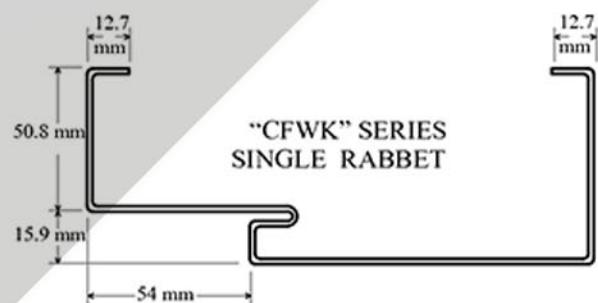
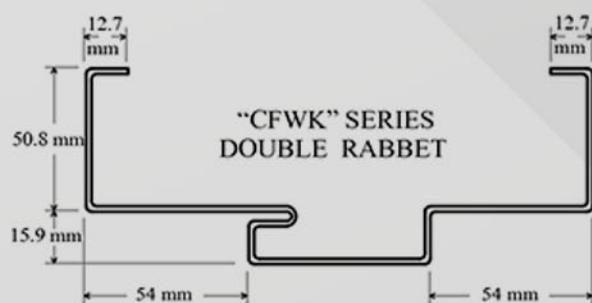
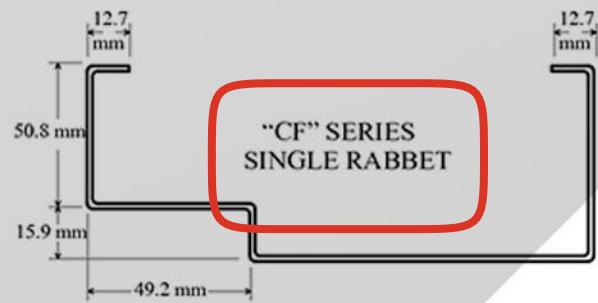
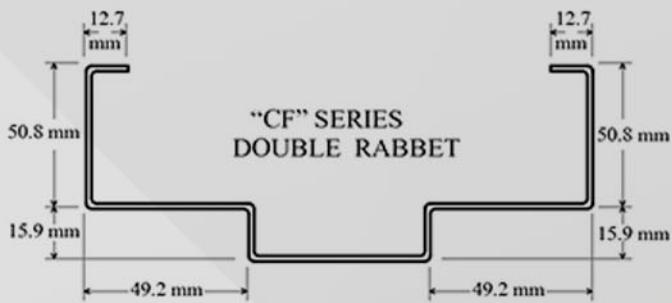
- Provide metal frames of 2.0mm thick galvanized steel sheet
- Fabrication frames with mitered continuously welded corners
- Provide frames with suitable anchors or expansion shields for fixation with masonry, concrete, gypsem board and steel structure.
 - Provide frames with necessary reinforcement for surface applied hardware
 - Provide removable spreader bar across bottom of frames welded to jamb



- After fabrication provide frames cleaned and coated with epoxy primer finish paint to applied at the site after installation
- After fixation fill interior of frames with cement / sand mortar grouting



Frame Profiles



Fire Rated Steel Window

We have test certification from Intertek ELT SEMKO USA120 Minute and 60 Minute fire resistance test of glass steel window assemblies was tested successfully by Omega Point laboratories Inc. USA, accordance with NFPA 257 standard methods which is identical or very similar to the following standard test methods:

UL 9

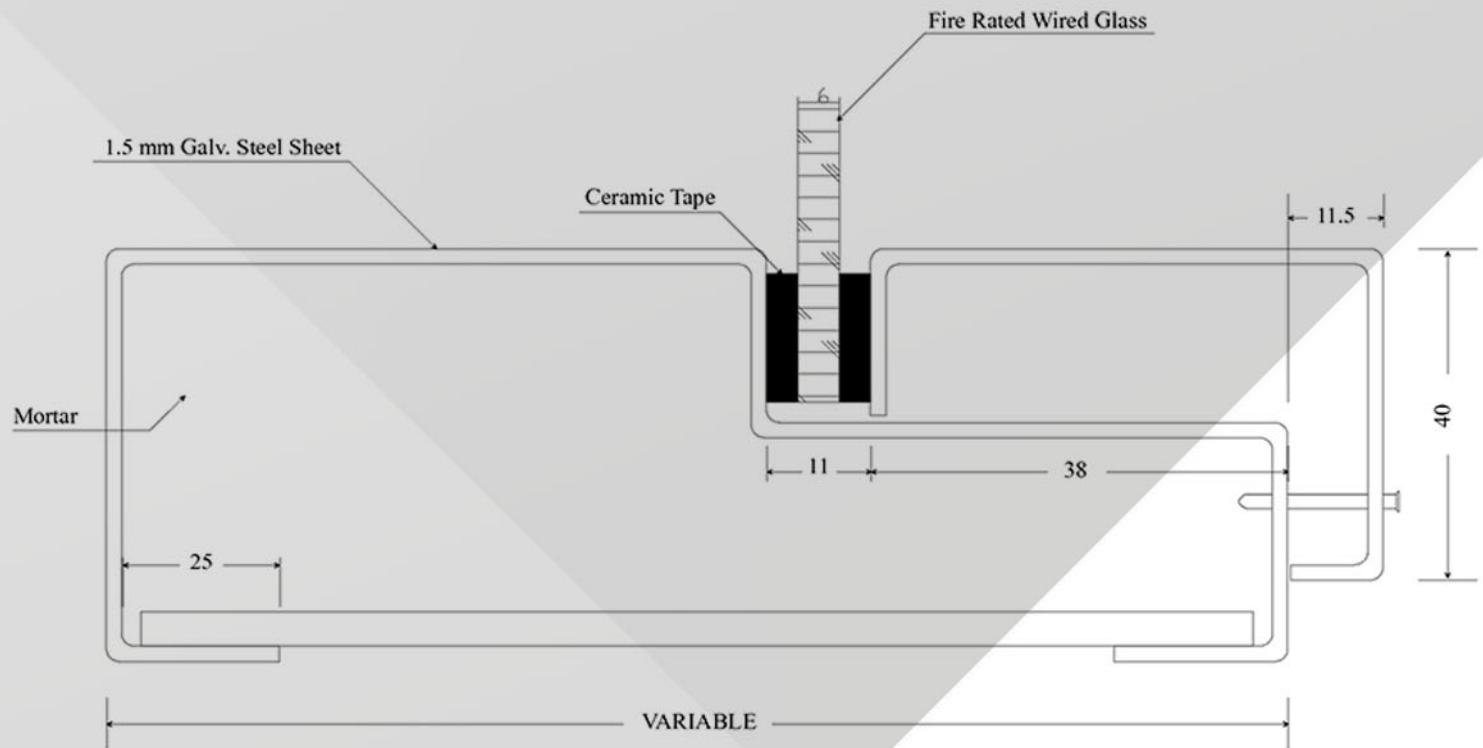
UBC 7-4

ASTME 163

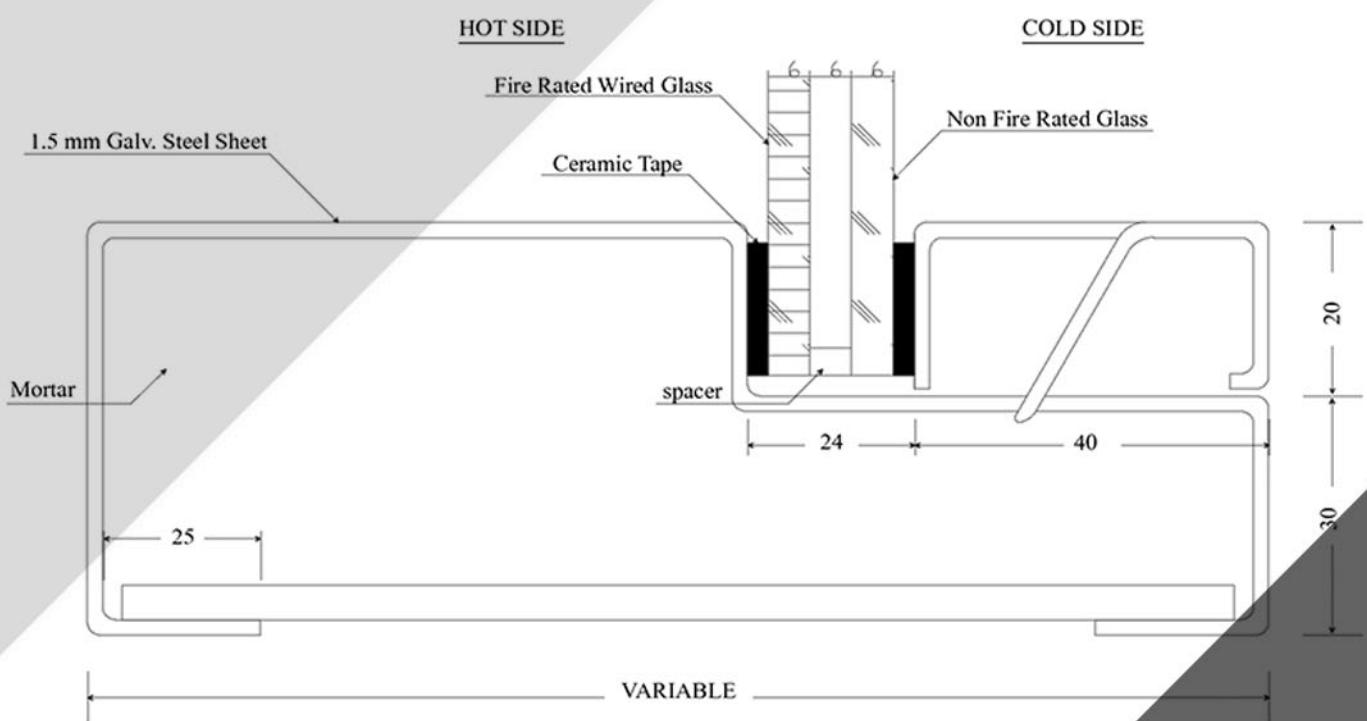


- The window assembly consisted of a single pane of 6mm fire-0 rated glass with (12mm X 12mm) wire mesh grid.
- The window consisted of a double pane with (12mmX12mm) on pane being 6mm fire-rated glass with wire mesh grid exposed to the fire and the other pane being 6mm tempered glass on the unexposed side.
- The double pane window also had an air pocket created by a 6mm spacer.
- The window frame was manufactured from 2mm galvanized steel.
- Window frame was attached to the masonry wall using Flat Head Lock/Bolts.
- A ceramic tape (normal 15mm wide and 3mm thick) was placed between the face of the window frame and the glass on both sides.

Steel Window Frame Section



SINGLE STEEL WINDOW



DOUBLE STEEL WINDOW

Marryat & Scott

Egypt

Nissan Factory

Bavarian Auto
Group

Emarat gas station

Dandy Mall
Alexandria desert road

Marryat & Scott

Headquarters & Factory
Kilo 28 Cairo - Alexandria Desert
Road, Abu Rawash Industrial Zone
Email: hesham.bahgat@marryatscott.com.eg
Phone: 353 90 040
Fax: 353 91 003
Mobile: 01272297551