

## KARACHI STEEL SERVICES

You Imagine We Inspire

**Product Line** 

Fire Rated Metal Doors (SS/GS)

Heavy duty Steel Hinged Doors (SS/GS)

Clean Room Doors / Windows (SS/GS)

Louvered Doors (GS/MS)

Sliding Doors (SS/GS)

Steel Structure / Platforms

Glazed Panels (SS/GS)

Partition Wall (SS/GS)

Ceiling / Railing (SS/GS)

Ancillary Items / Furniture (MS/SS)



**1**<sup>st</sup> Local Manufacturer of

ULIOC

BS476-Part 22

Standard International Listing Certified Steel

FIRE DOOR

in Pakistan













## Introduction





KSS was founded in 1978 in Karachi, initially starting as a specialist fabricator of iron gates and grills on a small scale for local contractors. During the last 30 years the company has evolved into a leading manufacturer of Heavy duty and light weight MS and SS Doors, Windows, louvers, steel structure / platforms, railing and Expended Metal Lathe in all leading pharmaceutical, textile industry and hospitals in Pakistan.

The Company has always looked beyond the present day and has been concerned to keep in touch with the market and industry needs and requirements. Now KSS is introducing first ever UL10C, Bs476 Part 22 and EN1364-1 Standards Fire Doors for 60, 90, 120 and 180 minute fire resistance as a pioneer manufacturer in Pakistan. KSS Fire Doors are duly tested at MATERIAL LAB DUBAI and have a Q-Plus product certification by CONFORMITY CERTIFICATION SERVICES UK with Fire Door product labeling.

Our success is driven by our passion to cater the local as well as international market, our mission is to become the industry number one provider of innovative solutions in protecting life.





## Manufacturing

KSS manufacture approved products in our facility in consistent with international standards.

DAS certification certifies us for the Quality Management system against ISO 9001:2015. Our environmental ISO14001:2015 System and occupational Health and Safety OHSAS 18001:2007 systems have also been certified by DAS certification.

KSS Steel doors, frames and windows are manufactured in accordance with SDI100 (ANSI A2508-1998) recommended specifications for standard steel doors and frames as issued by Steel door Institute (SDI) of America.

KSS products are manufactured using the finest quality steel sheets, conforming to ASTM A653, the standard specification for steel is Zinc coated (Galvanized) by the hot dip process.

KSS Stainless Steel products are manufactured of the finest quality SS304 Sheets from Taiwan, confirming to ASTM240/A240M.

KSS manufacturing facility possess various high tech machines (CNC, hydraulic shearing and bending machines as well as all types of welding machines MIG, TIG, ARC etc) that enables us to meet the need of any production requirements.













## Fire Doors



KSS metal fire doors are designed to meet the life-safety requirements in various types of buildings and structures. KSS fire doors help compartmentalize the spaces and contain the spread of fire. KSS steel fire doors complement **existing passive fire-fighting system** 

#### **KSS Fire Doors Functions:**

KSS fire doors serve five main functions.

- Customize door frames and door sizes
- Serve as a regular door at all times
- Provide ready egress from a fire area during a fire.
- Inhibit spreading of fire
- Protect life and property by reducing smoke hazards.
- KSS Fire Door also serve as a temperature rise door as its core integrity range is from 23 to 30 minutes



#### KSS fire door selection guide

At KSS, we are equipped to offer fire doors tested and certified to American and British Standards. The significant requirements of each of these standards are listed below.

#### **AMERICAN**

NFPA 80-1999, NFPA 252-1995, UL 10B, UL 10C, UBC 7-2 and IBC 2000.

- A fire door must have a label attached indicating the fire test rating.
- lacktriangle Doors are rated for 3/4 time of the rating of the surrounding wall.
- Every fire door must have a labeled self-latching (Panic bars) device to engage the strike. Dead bolts may not be used in place of latch bolts.
- A fire door must be self-closing.
- If a fire door is held open, it must be equipped with a listed / tested, heat responsive or electromagnetic device, fusible link or a smoke detection device which is to be closed in case of fire.
- Only listed / tested fire door hardwares shall be used.
- A fire door with glass opening must be provided with a listed / tested glass, a steel frame and glazing bead along with gaskit and spacer.
- Every assembly configuration such as transom panel, louver, vision panel, frame material, thickness of metal, lead construction, core type, door set type (single, double or double egress), etc., Must be covered by the test certificate or global assessment report issued by the authentic testing agency.

#### BRITISH

Part 2, BS 476, Parts 20 & 22. Building Regulations 2000-Fire Safety-Part B.

- Labeling is not obligatory but recommended.
- According to BS, a fire door can be tested in unlatched condition with a self-closing device.
- A fire door must be self-closing. Only the active door leaf of an access panel (service ducts) or cupboards, can however be installed without a closer but with a dead lock and a "Fire Door, Keep Shut" sign placed clearly on the door face.
- Unless shown to be satisfactory when tested as part of a fire door assembly, the components of any hinge on which the door is hung should be fire rated.
- If a fire door is held open, it must be equipped with a tested, automatic release mechanism actuated by an automatic fire detection and alarm system, fusible link (not if door is fitted in an opening provided as means of escape), or a door-closed delay device.
- Two fire doors may be fitted in the same opening so that the total fire resistance is the sum of their individual fire resistance.



## Fire Door (90 Mins Test)

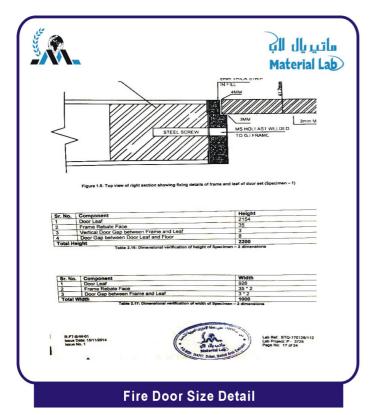
KSS 90 Minutes Fire Door Testing at Material LAB Dubai (Single Door Set) TEST STANDARD: BS476 PART-22 (1987)

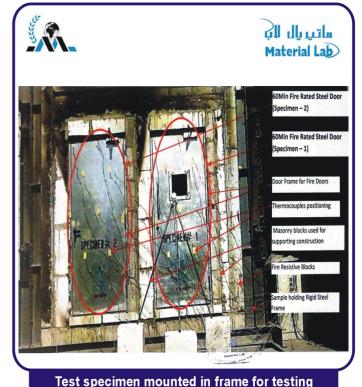
Lab Ref: STQ-170128/112



Items used for design of Fire Rated Steel Doors



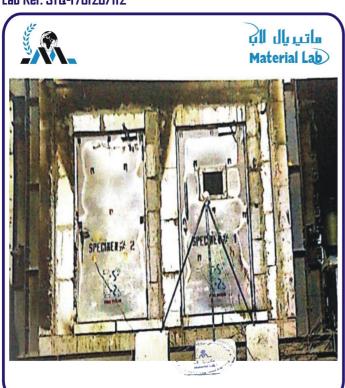




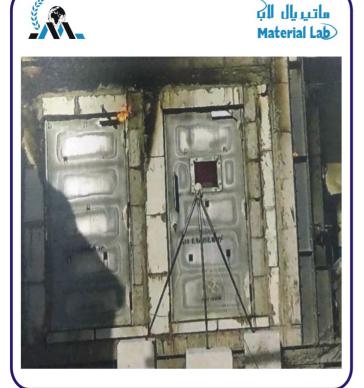
## Fire Door (90 Mins Test)



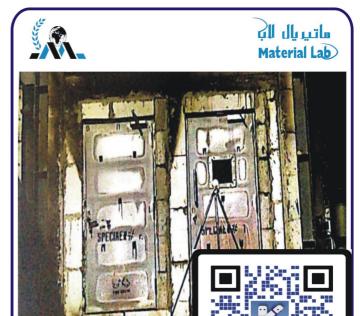
KSS 90 Minutes Fire Door Testing at Material LAB Dubai (Single Door Set)
TEST STANDARD: BS476 PART-22 (1987)
Lab Ref: STQ-170128/112



Result after 45 Minutes



Result after 112 Minutes









90min Test Report

Fire Resistance of Single Leaf Steel Door with Vision Panel (Specimen – 1) after 112 minutes of teating:

Test Parameters	Results	ockwool Infill and Vision Panel Remarks
Insulation: 23 Minutes		
1. Average Temperature	23 minutes	Specimen has failed insulation due failure in maximum temperature rise on unexposed surface.
2. Maximum Temperature	23 minutes	Maximum temperature recorded after 23minutes of testing was 220 °C @ TC-6 which exceeded standard limits.
Integrity: 112 Minutes		
1. Sustained Flaming	112 minutes	No Sustained flaming observed for more than 10 seconds up till 112 minutes of testing
2. 6mm Gap Gauge	112 minutes	No propagation or penetration of 6mm gap gauge throughout 112 minutes of testing
3. 25mm Gap Gauge	112 minutes	No propagation or penetration of 25mm gap gauge throughout 112 minutes of testing

After being exposed for a total duration of 112 minutes, the fire rated single-leaf steel door assembly (Specimen - 2) was evaluated against the integrity and insulation criteria set in clause 6.6 of BS 476: Part 22: 1987: Amd 2014. The door system was found to achieve the following fire resistance properties illustrated in table 5.2.

Fire Resistance of Single Leaf Steel Door without Vision Panel (Specimen – 2) after 112 minutes of testing:

Test Parameters	Results	Remarks
Insulation: 29 Minutes		
1. Average Temperature	29 minutes	Specimen has failed insulation due failure in maximum temperature rise on unexposed surface.
2. Maximum Temperature	29 minutes	Maximum temperature recorded after 29minutes of testing was 220 °C @ TC-9 which exceeded standard limits.
Integrity: 112 Minutes		
1. Sustained Flaming	112 minutes	Sustained flaming observed from door closer for more than 10 seconds after 112 minutes of testing
2. 6mm Gap Gauge	112 minutes	No propagation or penetration of 6mm gap gauge throughout 112 minutes of testing
3. 25mm Gap Gauge	112 minutes	No propagation or penetration of 25mm gap gauge

#### Result after 112 Minutes



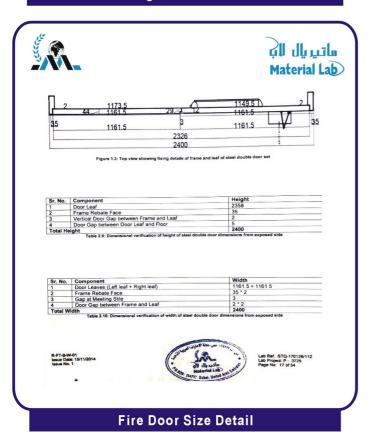
## Fire Door (120 Mins Test)

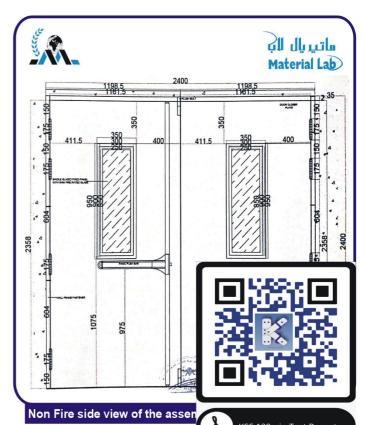
KSS 120 Minutes Fire Door Testing at Material LAB Dubai Double Door Set) TEST STANDARD: BS476 PART-22 (1987)

Lab Ref: STQ-170605/2881



Items used for design of fire rated steel double door







## Fire Door (120 Mins Test)



KSS 120 Minutes Fire Door Testing at Material LAB Dubai Double Door Set) TEST STANDARD: BS476 PART-22 (1987)

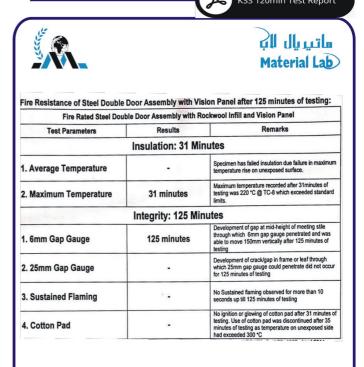
Lab Ref: STQ-170605/2881





Test failure at 125 Minutes





Result after 125 Minutes

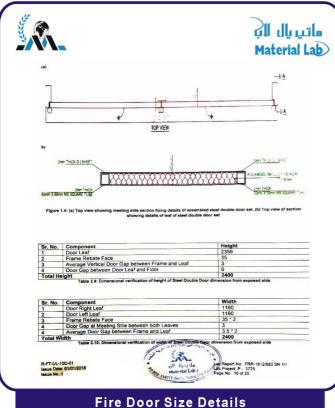


## Fire Door (180 Mins Test)

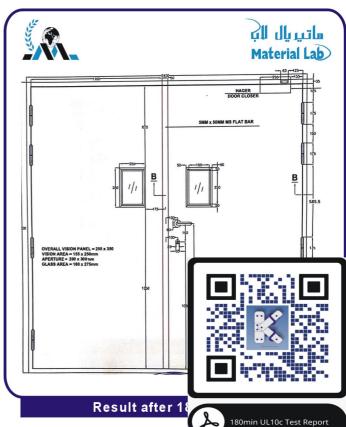
KSS 180 Minutes Fire Door Testing at Material LAB Dubai Double Door Set)
TEST STANDARD: ANSI/UL 10C-2009 (Positive pressure Fire Test of Door Assemblies) With Hose Stream Test
Lab Ref: FRR-1812/883 SN 1/1

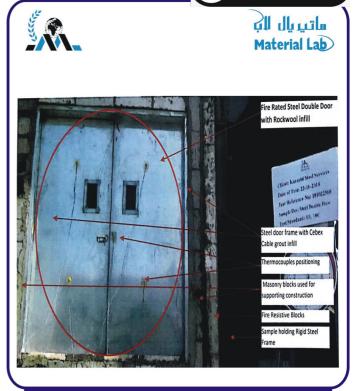


#### Items used for design of Fire Rated Steel Doors



Test Specimens mounted in frame for testing





## Fire Door (180 Mins T<u>est)</u>



KSS 180 Minutes Fire Door Testing at Material LAB Dubai Double Door Set)
TEST STANDARD: ANSI/UL 10C-2009 (Positive pressure Fire Test of Door Assemblies) With Hose Stream Test
Lab Ref: FRR-1812/883 SN 1/1

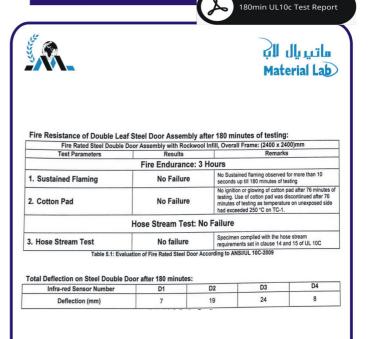


Result after 30 & 60 Minutes





Result after 150 & 180 Minutes



Result after 180 Minutes



## Fire Door (180 Mins Test)

KSS 180 Minutes Fire Door Testing at Material LAB Dubai Double Door Set)
TEST STANDARD: ANSI/UL 10C-2009 (Positive pressure Fire Test of Door Assemblies) With Hose Stream Test
Lab Ref: FRR-1812/883 SN 1/1



ماتيريال الب Material Lab



Exposed & unexposed side of specimen after completion of test



ماتيريال الب Material Lab



Specimen exposed & unexposed sides immediately after being subjected to hose stream test



#### CERTIFICATE OF COMPLIANCE



Certificate Number

R40762

Report Reference

R40762-20220829

Date

2022-September-06

Issued to:

Karachi Steel Services

187, Nishter Road, Near Nishter Road Post Office Garden

West

Karachi Sindh 75400 PK

KSS UL 10C Listing

This is to certify that representative samples of

SWINGING-TYPE FIRE DOORS, POSITIVE-PRESSURE

**TESTED** 

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 10C - Positive Pressure Fire Tests of Door

Assemblies

ANSI/UL 10B - Fire tests Of Door Assemblies

Additional Information: See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LL

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/





## Fire Door <u>Technical Details</u>

### KSS UL 10 C STEEL STIFFENED DOORS DETAILS

#### **STEEL FIRE DOOR**

#### Specifications:

Type : Single and Double

Door thickness : 45mm

Finish : Powder coating/ Epoxy Coating

Astragal : On active leaf of double

#### **FIRE RATINGS**

ANSI/UL10C- Up to 120 minutes



#### **SIZES**

Approval	Standard	Infill	Door	Range	Leaf Height (mm)	x	Leaf width (mm)	Fire Rating (Min)
UL	UL 10C	Rock Wool	Single	Max	2400	×	1200	120
UL	UL 10C	Rock Wool	Double	Max	2400	X	2400	120







## Fire Door **IPS CERTIFICATION**



The IPS certify that the company(ies):

#### **Karachi Steel Services**

187, Nishter Road, Near Nishter Road Post Office Garden West, Karachi-75400, Pakistan

Has successfully complied the requirements of:

**International Listing Product** Conformity Certification Scheme 01, Type 3 for Construction Products, **Classic Single Site Certification** 

Statement of conformity is hereby granted covering the scopes of:

#### **Fire Rated Door Assemblies**

Covering the following test codes:

UL 10c and BS 476:Part 22





#### IPS-KSS111-ILC

Certificate ID:

01

Issue Reference:

August 28, 2022

Initial Certification Date:

August 28, 2022

Current Issue Date:

August 27, 2027

Indicative Expiry Date



Scan OR for Certificate Authenticity

IPS-IL-OP01-F11, Rev. 00 | 25July21 Page 1 | 1









weighip of this certificate to whom it must be returned to including all copies or oyed on request. Contact IPS should there be any clarifications required.



# The International Listing Registration Scope

#### I-Listing Scope ID: IPS-KSS111-ILC-02A, Rev. A

Certified Scope Descriptions	Validated Properties	Test Codes
Latched, Single Acting, Rockwool Infill Single Leaf Steel Door Assembly— With or Without Vision Panel_KSS UL180 Single Series		
Overall Tested Dimensions  Frame = 2400x1236mm (HxW)  Metal Frame Profile = 200x35mm (Depth x T), Single Rebate  Door Stop = 15x152mm (T x Depth) Integral	Integrity = Up to 180	UL 10C
	3 ,	UL 10C
Metal Leaf Dimension = 2356x1160x45mm (HxW1+W2xT) Leaf Infill = Rockwool with density of 100kg/m³		
Vision Panel, Overall Area = $0.09 \text{ m}^2$ , Square or Rectangular, Single pane only Glass Overall Area = $0.05\text{m}^2$ , Square or Rectangular		

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#### **I-Listing Test Evidences**

Test Reference(s) ID	Category
FRQ-1812/408SN 1/1 (181022568)	Primary

#### I-Listing Scope ID: IPS-KSS111-ILC-01A, Rev. A

Certified Scope Descriptions	Validated Properties	Test Codes
Latched, Single Acting, Rockwool Infill Double Leaf Steel Door Assembly— With or Without Vision Panel_KSS UL180 Double Series		
Overall Tested Dimensions  Frame = 2400x2400mm (HxW)  Metal Frame Profile = 200x35mm (Depth x T), Single Rebate  Door Stop = 15x152mm (TxDepth), Integral  Frame Infill = Cementitious Grout or Concrete, Min. wet mix density of 2000kg/m³  Metal Leaf Dimension = 2356x1160+1160x45mm (HxW1+W2xT)  Leaf Infill = Rockwool with density of 100kg/m³  Metal Astragal = 5x50mm (TxW)  Vision Panel, Overall Area = 0.09 m², Square or Rectangular, Single pane per leaf only  Glass Overall Area = 0.05m², Square or Rectangular	Integrity = Up to 180 Minutes	UL 10C

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#### **I-Listing Test Evidences**

Test Reference(s) ID	Category
FRQ-1812/408SN 1/1 (181022568)	Primary

#### **I-Listing Instructions**

a. Reduce door sizes (HxW) is permitted subject to limitations, see notes;

The following are not in any form permitted unless validated and endorsed by IPS:

- b. Door size increase (HxW);
- c. Alternative or added components;
- d. Other configurations/specifications;
- e. Other end-use;
- f. Manufacturer other than stated herein; and
- g. Other information/specifications not stated.

#### **I-Listing Notes**

- Note 1: The scope components, specifications, construction, door size variations and other information are documented at IPS International Field of Application reference: IPS-FOA01- KSS111-ILC-01A, Rev. 00 and test reports only, subject to full compliance:
- Note 2: The certification is endorsed only to door assemblies manufactured by the abovementioned main certification holder at its manufacturing address and satisfactory complying to both I-Listing Instructions and Notes duly labelled with official IPS I-Listing Product Labels only; and
- Note 3: Both IPS International Field of Application and The International Listing Registration Scope documents are subject to periodic reviews and updates.

## The International Listing Registration Scope



#### I-Listing Scope ID: IPS-KSS111-ILC-03A, Rev. A

Certified Scope Descriptions	Validated Properties	Test Codes
Latched, Single Acting, Rockwool Infill Double Leaf Steel Door—With or Without Vision Panel Assembly _KSS BS120 Double Series		
Overall Tested Dimensions  Frame = 2400x2400mm (HxW)  Metal Frame Profile = 200x35mm (Depth x T), Single Rebate  Door Stop = 15x152mm (TxDepth), Integral  Frame Infill = Cementitious Grout or Concrete, Min. wet mix density of 2000kg/m³  Metal Leaf Dimension = 2358x1162+1162x44~45mm (HxW1+W2xT)  Leaf Infill = Rockwool with density of 100kg/m³  *Metal Astragal = 5x50mm (TxW)  Vision Panel, Overall Area = 0.333 m², Square or Rectangular, Single pane per leaf only  Glass Overall Area = 0.270m², Square or Rectangular	Integrity = Up to 120 Minutes  Insulation = Up to 31 Minutes	BS476: Part 22

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#### **I-Listing Test Evidences**

Test Reference(s) ID	Category
STQ-170605/1041 SN1/1 (170524499)	Primary
FRQ-1812/408SN 1/1 (181022568)	Supplementary

#### I-Listing Scope ID: IPS-KSS111-ILC-04A, Rev. A

Certified Scope Descriptions	Validated Properties	Test Codes
Latched, Single Acting, Rockwool Infill Single Leaf Steel Door- With or Without Vision Panel Assembly _KSS BS120 Single Series		
Overall Tested Dimensions  Frame = 2400x1238mm (HxW)  Metal Frame Profile = 200x35mm (Depth x T), Single Rebate  Door Stop = 15x152mm (TxDepth), Integral  Frame Infill = Cementitious Grout or Concrete, Min. wet mix density of 2000kg/m³  Metal Leaf Dimension = 2358x1162x44~45mm (HxW1+W2xT)  Leaf Infill = Rockwool with density of 100kg/m³  Vision Panel, Overall Area = 0.333 m², Square or Rectangular, Single pane per leaf only  Glass Overall Area = 0.270m², Square or Rectangular	Integrity = Up to 120 Minutes	BS476: Part 22

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#### **I-Listing Test Evidences**

Test Reference(s) ID	Category
STQ-170605/1041 SN1/1 (170524499)	Primary
FRQ-1812/408SN 1/1 (181022568)	Supplementary

#### **I-Listing Instructions**

- Reduce door sizes (HxW) is permitted subject to limitations, see notes;
- \* Metal Astragal is optional for ≤door tested size, see notes;

  Door size (HxW) increase is permitted to assembly with Fire integrity requirement only with limitations, see notes;

The following are not in any form permitted unless validated and endorsed by IPS:

- Alternative or added components;
- Other configurations/specifications;
- Other end-use; Manufacturer other than stated herein; and
- Other information/specifications not stated.

#### **I-Listing Notes**

- Note 1: The scope components, specifications, construction, door size variations and other information are documented at IPS International Field of Application reference: IPS-FOAÓ3- KSS111-ILC-03A,4A Rev. 00 and test reports only, subject to full
- Note 2: The certification is endorsed only to door assemblies manufactured by the abovementioned main certification holder at its manufacturing address and satisfactory complying to both I-Listing Instructions and Notes duly labelled with official IPS I-Listing Product Labels only; and

Note 3: Both IPS International Field of Application and The International Listing Registration Scope documents are subject to periodic reviews and updates.



# The International Listing Registration Scope

#### I-Listing Scope ID: IPS-KSS111-ILC-05A, Rev. A

Certified Scope Descriptions	Validated Properties	Test Codes
Latched, Single Acting, Rockwool Infill Single Leaf Steel Door— With or Without Vision Panel Assembly_KSS BS90 Single Series		
Overall Tested Dimensions  Frame = 2200x1000mm (HxW)  Metal Frame Profile = 200x35mm (Depth x T), Single Rebate  Door Stop = 15x152mm (TxDepth), Integral  Frame Infill = Cementitious Grout or Concrete, Min. wet mix density of 2000kg/m³  Metal Leaf Dimension = 2154x926x44~45mm (HxWxT)  Leaf Infill = Rockwool with density of 100kg/m³  Vision Panel, Overall Area = 0.141 m², Square or Rectangular, Single pane per leaf only  Glass Overall Area = 0.096m², Square or Rectangular	Integrity = Up to 90 Minutes  Insulation = Up to 29 Minutes	BS476: Part 22

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#### **I-Listing Test Evidences**

Test Reference(s) ID	Category
STQ-170128/112 SN 1/1 (170128437)	Primary
STQ-170605/1041 SN1/1(170524499)	Supplementary
FRQ-1812/408SN 1/1 (181022568)	Supplementary

#### I-Listing Instructions

- a. Reduce door sizes (HxW) is permitted subject to limitations, see notes;
- b. Door size (HxW) increase is permitted to assembly with Fire integrity requirement only with limitations, see notes;

The following are not in any form permitted unless validated and endorsed by IPS:

- Alternative or added components;
- d. Other configurations/specifications;
- e. Other end-use;
- f. Manufacturer other than stated herein; and
- g. Other information/specifications not stated.

#### **I-Listing Notes**

- Note 1: The scope components, specifications, construction, door size variations and other information are documented at IPS International Field of Application reference: IPS-FOA05- KSS111-ILC-05A, Rev. 00 and test reports only, subject to full compliance;
- Note 2: The certification is endorsed only to door assemblies manufactured by the abovementioned main certification holder at its manufacturing address and satisfactory complying to both I-Listing Instructions and Notes duly labelled with official IPS I-Listing Product Labels only; and
- Note 3: Both IPS International Field of Application and The International Listing Registration Scope documents are subject to periodic\_reviews and updates.

# The International Listing Registration Scope



### **KSS Fire Door Labels**

All KSS Certified Fire Doors have QR Readable International product listing IPS certified fire door labels paste on them.











### **KSS Fire Door Application**

High Rise building (stairways / Elevator Shaft)

Power Plants / Grid Stations

Pharmaceutical Plants

**Garment Processing Units** 

Shopping Malls

School / College / Universities

Multiplexes

Hotels

Oil & Gas Sector

Warehouses

Data Centre etc.,



## **Door Accessories**

## **Testing Standards**











### **Available Brands**















## **Customers**





































## **Heavy Duty Galvanized Steel Hinged Doors**

- Door Frame Sheet = 1.5mm to 2mm
- Internal Framing = Pipe / Steel Stiffened
- Door Infill = Rock Wool / Glass Wool

- Door Shutter Sheet = 1.5mm to 2mm
- Hinges = SS Pivot Type
- Paint Finish = Enamel / Epoxy









## **GS-Hinged Door**



## **Heavy Duty Galvanized Steel Hinged Doors**

- Door Frame Sheet = 1.5mm to 2mm
- Internal Framing = Pipe / Steel Stiffened
- Door Infill = Rock Wool / Glass Wool

- Door Shutter Sheet = 1.5mm to 2mm
- Hinges = SS Pivot Type
- Paint Finish = Enamel / Epoxy











## **GS-Hinged Door**

















## **SS-Hinged Door**



## Stainless Steel Hinged Doors

- Door Frame Sheet = SS 304 1.5mm to 2mm (Taiwan)
- Door Shutter Sheet = SS3041.5mm to 2mm (Taiwan)
- Sheet Finish = Satin / Grind Finish

- Internal Framing = SS/MS Pipe / Steel Stiffened
- Hinges = SS Pivot Type
  - Door Infill = Rock Wool / Glass Wool











## Clean Room SS / GS Door / Windows

### Clean Room SS / GS Doors

- Door Frame Sheet = SS 304 1.5mm to 2mm (Taiwan)
- Door Shutter Sheet = SS3041.5mm to 2mm (Taiwan)
- Sheet Finish = Satin / Grind Finish and Paint Finish
- Glazing = 5mm Double Glazed
- Hinges = SS Pivot Type







## Clean Room SS / GS Door / Windows



### Clean Room SS / GS Windows

- Window Frame Sheet = SS 3041.5mm to 2mm (Taiwan)
- Sheet Finish = Satin / Grind Finish and Paint Finish
- Glazing = 5mm / 6mm Double Glazed
- Glass Reinforcement = 3m Double adhesive















## Louvered Doors (GS/MS)

- Frame Sheet = GS / MS 1.5-2mm
- Louver Thickness = 1.5 2mm

- Louver Style = Z-Shape
- Paint Finish = Enamel / Epoxy







## Sliding Doors (SS / GS)



## Sliding Doors (SS / GS)

- Sliding Door Sheet = MS 1.5mm to 2mm
- Sliding System = Heavy Duty rails with Wheel
- Internal Frame = MS Box Section
- Paint Finish = Enamel / Epoxy

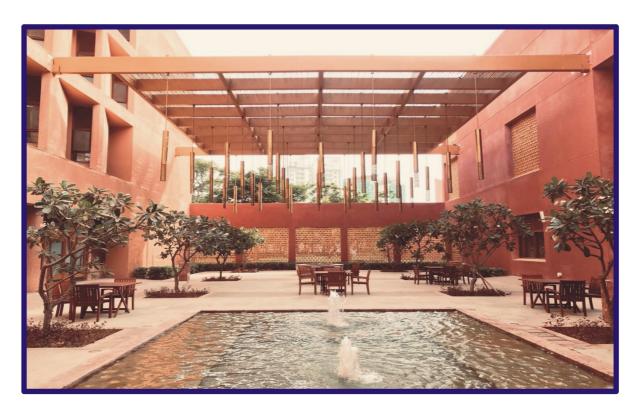












## Steel Structure & Platform











Glazed Panel Frame = 1.5mm to 2mm (SS / GS) Glass Tempered = 8mm to 12mm











## **SS Glass Partition**





## **Dry Cement Board Partition**





### **Expanded Metal Lathe (EML) Ceiling**



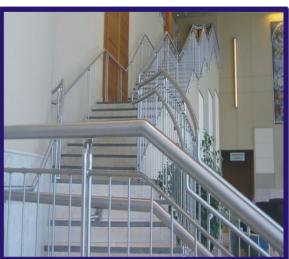


SS / GS Railing









# Ancillary Items / Furniture (SS/MS)















## Certification





#### **Quality Management System**

#### **Certificate of Approval**

This is to certify that the QMS of Karachi Steel Services

187 nishter road, near nishter road post office, garden west, karachi-Pakistan

Has been assessed and found to meet the requirements of

ISO 9001:2015

This certificate is valid for the following scope of operations

Steel Fabrication, Manufacturer of Fire Resistant Doors and Panels



Stan Wright Director

Date of Certificate Issue: 16 August 2021
Certificate Valid Until: 15 August 2022
Uveillance audit before 15 July 2022 Certified since 16 August 2022

SN Registrars (Holdings) Limited Registration House, 22b Church Street, Rushden, Northamptonshire, NN10 9YT, UK Tel: +44 (0) 1933 381859







#### **Environmental Management System**

**Certificate of Approval** 

This is to certify that the EMS of Karachi Steel Services

187 nishter road, near nishter road post office, garden west, karachi-Pakistan

Has been assessed and found to meet the requirements of

ISO 14001:2015

This certificate is valid for the following scope of operations

Steel Fabrication, Manufacturer of Fire Resistant Doors and Panels

Authorised by:



Stan Wright Director

Date of Certificate Issue: 16 August 2021 Certificate Valid Until: 15 August 2022 urveillance audit before 15 July 2022. Certified since 16 August 20:

SN Registrars (Holdings) Limited Registration House, 22b Church Street, Rushden, Northamptonshire, NN10 9YT, UK Tel: +44 (0) 1933 381859





CERTIFICATION



#### **Occupational Health & Safety Management System**

**Certificate of Approval** 

This is to certify that the OHSMS of Karachi Steel Services

187 nishter road, near nishter road post office, garden west, karachi-Pakistan

Has been assessed and found to meet the requirements of

ISO 45001:2018

This certificate is valid for the following scope of operation:

Steel Fabrication, Manufacturer of Fire Resistant Doors and Panels

Authorised by:



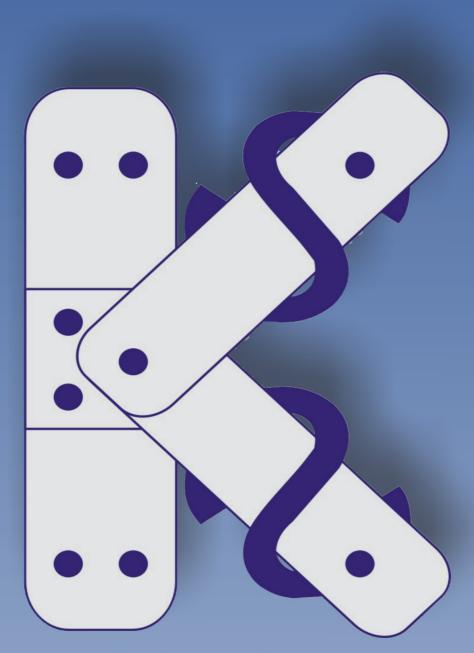
Stan Wright Director

Date of Certificate Issue: 16 August 2021 Certificate Valid Until: 15 August 2022









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## KARACHI STEEL SERVICES

187, Nishter Road, Near Nishter Road, Post office, Garden West, Karachi, Pakistan, Post Code: 74550

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