

AN EXPERT IN

SECURITY & SAFETY DOOR MANUFACTURING

AN INDOOR GUIDE



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ABOUT INDOOR AXE



Safety is Our Priority

is more than just a slogan, it's a way of life for INDOOR AXE METAL.

Keeping you safe and your property secure is our business. With a global network spanning over 5 countries, INDOOR AXE METAL has been recognized as the unparalleled leader in fire safety. In recognition of our outstanding growth and commitment to quality, we have been certified with ISO 9001-2015, IAF, EGAC in areas including manufacturing and exports.



INDOOR AXE METAL has also been recognized by the India Quality Appreciation Program in 2020, further cementing our status as a renowned leader in fire protection solutions.

- By recognizing the importance and convenience of having easy access to multiple safety services, we became specialized by offering complete solutions under one roof for all types of high-quality firefighting equipment, fire protection systems, Safety architectural and interior products.
- With the most talented and dedicated employees from around the India, INDOOR AXE METAL has over 25 team members including 4 passionate engineers. We are currently exporting to over 5 countries worldwide



PRODUCT RANGE

DOORS (AS PER SDI STANDARD)

A. STEEL(HMD)

- | | | |
|-----|----------|---|
| 1. | HMD | Steel Doors Non Fire Rated |
| 2. | HMD (FR) | Steel Doors Fire Rated |
| 3. | HMD AC | Sound Proof (Acoustic) Doors and Frames |
| 4. | HMD BU | Bullet Proof Doors & Frames |
| 5. | HMD XR | X-ray Proof Doors and Frames |
| 6. | HMD GA | Gas Tight Doors and Frames (Air Tight) |
| 7. | HMD TR | Transom and Side lite Frames |
| 8. | HMD DE | Detention (Cell Doors) Doors and Frames |
| 9. | HMD EM | Embossed Steel Doors and Frames |
| 10. | HMD DU | Dutch Doors and Frames |
| 11. | HMD AC | Access Doors and Frames |
| 12. | HMD WI | Window Frames and Security screens |
| 13. | HMD PR | Pre painted Doors and Frames (Low-Cost Doors) |
| 14. | HMD SS | Stainless Steel Doors and Frames |
| 15. | HMD TO | Toilet Partitions |
| 16. | HMD SE | Seamless Doors and Frames |
| 17. | HMD FO | Folding Doors |
| 18. | HMD AD | Automatic Doors |
| 19. | HMD KD | Kitchen Special Doors |



PRODUCT RANGE

DOORS (AS PER SDI STANDARD)

B. WOODEN DOOR

- | | | |
|----|--------|-------------------------------------|
| 1. | WD(FR) | FIRE RATED DOOR (SPECIAL CORE) |
| 2. | WD(AC) | ACOUSTIC WOODEN DOOR (SPECIAL CORE) |
| 3. | WD(FD) | FLUSH DOOR |
| 4. | WD(TP) | FLUSH DOOR (TERMITE PROOF) |
| 5. | WD(PW) | FLUSH DOOR (BOILING WATER PROOF) |
| 6. | WD(SP) | SWELL PROOF |

C. ALUMINIUM

- | | | |
|----|--------|----------------------------------|
| 1. | WD(AD) | ALUMINIUM DOOR |
| 2. | AL(VP) | ALUMINIUM DOOR WITH VISION PANEL |
| 3. | AL(W) | ALUMINIUM WINDOW |

D. GLASS

- | | | |
|----|----|---------------|
| 1. | GL | FULLY GLAZED |
| 2. | ED | ENTRANCE DOOR |

E. FIREHOUSE CABINET

F. ROOF HATCHES

PARTITION

A. GLASS

- | | |
|----|-------------------------|
| 1. | ROOM /TOILET PARTITIONS |
|----|-------------------------|

B. PLY

- | | |
|----|------------|
| 1. | PARTITIONS |
|----|------------|



DISCLAIMER OF WARRANTY

- INDOOR AXE METAL products are designed on "SDI", "NFPA", and technological detail the interest of improving the safety for the public benefit.
- INDOORAXE METAL disclaims any liability for any personal injury, loss of life, property damage, or other damage of any nature what so ever, whether special, indirect, consequential or compensatory, direct or indirectly resulting from any accident, regardless of legal theory. In no event shall INDOORAXE METAL's liability exceed the amount paid by the customer / contractor to that individual product cost OR US\$1000/ whichever is lesser, regardless of legal theory.
- Note: Steel Doors once install, needs to be strictly maintained for every month and operation performance should be recorded by trained engineer or concern department experts, as per the
- Operation and Maintenance manual

BREAKS

FIRE & SMOKE PATH

- **INDOORAXE METAL Steel Doors** are design based on SDI and NFPA technological data in the interest of improving the safety for the public benefits.
- Today as per the BOCA International standards, building safety is a demand able choice by the public, in case of fire accidents. **INDOORAXE METAL** fire rated Steel Doors are produced with the toughest UL and SDI standards to prevent any spread of smoke fire breakup. For more details about **INDOORAXE METAL** UL listed products Contact on Tel: +91 9776442267



SPECIFICATIONS

FIRE RATED STEEL DOOR

PRODUCT

DOOR CONSTRUCTION

- 45mm (1 7/8") thick full flush construction with the details confirming to SDI-111 A-EDGE considered.
- Manufactured from cold rolled steel sheets to ASTM A366 or from galvanized steel to ASTM A526. Available in nominal 1.2mm (18ga.) or 1.5mm (16ga.).
- Vertical edges are interlocked.
- 1.5mm (16ga.) deep end channels at top and bottom of door for lasting integrity.
- Hardware reinforcing in accordance to ANSI, SDI, NFPA standards requirements.
- Tested according to UL10 (B) and labeled up to 3 hours.
- Available with wide range of glass light and louver Preparations.
- Fire rated, Labeled: Available in sizes up to 4'x8' single and 8'x8' double. Larger sizes are also available with oversize certification.

HARDWARE PREPERATION

HINGE PREPERATION

INDOORAXE Metal will provide doors with 4.0mm thick steel hinge reinforcements welded to the doors in compliance with SDI-100. Standard hinge preparation is to be 4 1/2"x4" for regular weight 0.134" thick hinge, three preparations through 2286mm (7'6") height and four preparations over 2286mm (7'6") and up to 3048mm (10') height in compliance with NFPA 80.

LOCK FACE PLATE PREPERATION

INDOORAXE Metal will provide Doors with 3.0mm thick steel lock face plate reinforcement with topped holes welded to the Doors. Standard lock preparation is to be provided in compliance with ANSI A115.2.

CLOSER AND OTHER REINFORCEMENT

INDOORAXE Metal will provide all doors with minimum 2.0mm (14 gauge) reinforcement as necessary to support the scheduled hardware in compliance with ANSI/SDI 100. Drilling and tapping for surface applied hardware to be performed at the building site by others.

PAINTING

After fabrication Door thoroughly cleaned (to assure proper adhesion) and polyester powder coated finish applied. Wooded finish paint will be provided as a optional finish.

GENERAL

SCOPES

This specification applies to standard steel doors as shown on the plan and door schedules and as manufactured by INDOOR AXE METAL DOORS L.L.C

QUALITY ASSURANCE

INDOOR AXE Metal will provide doors in compliance with ANSI/SDI-100 requirements. INDOOR AXE METAL will provide fire rated doors labeled and listed by Under writers Laboratories Inc. (or) warringtonfire mideast.

GLAZING

Doors are to be provided with steel channel glazing beads for installation of glazing. Installation of glazing by others.

EXECUTION

Installation of the frames plumb, square and in true alignment in compliance with SDI-122. Installation and troubleshooting guide for standard steel doors and frames.



FIRE PROTECTION

Labeled fire rated Door tested in accordance with UL (or) Warringtonfire-mideast with rating as specified in The plans and door schedule. Firedoors & frames are to be manufactures by INDOORAXE Metal in accordance with the approved procedures issued by UL (or) Warringtonfire-mideast.

LABELS

Fire rated Door shall bear the appropriate fire labels.

FIRE DOORS TYPE - DF



SINGLE DOOR

- IAM-100 Series - Honeycomb core door
- IAM-200 Series - Polystyrene core door
- IAM-300 Series - Wooden door
- IAM-400 Series - Stiffened Door with Rock wool insulation
- IAM-500 Series - Glass door

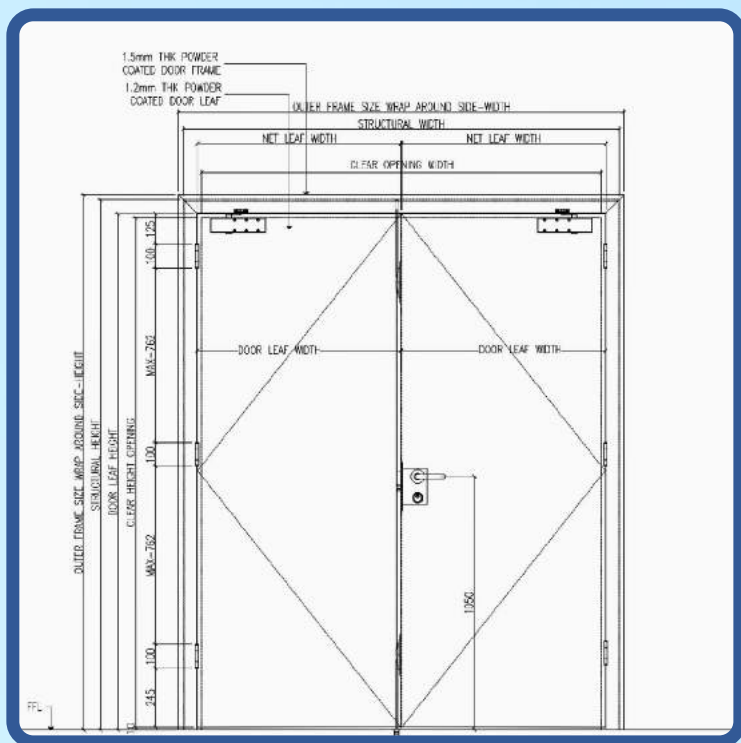
DOUBLE DOOR

- IAMSS-100 Series - Stainless steel hollow metal honeycomb core door
- IAMSS-200 Series Stainless steel hollow metal door with Polystyrene core
- IAMSS-400 Series - Stainless steel hollow metal door with fiberglass insulation

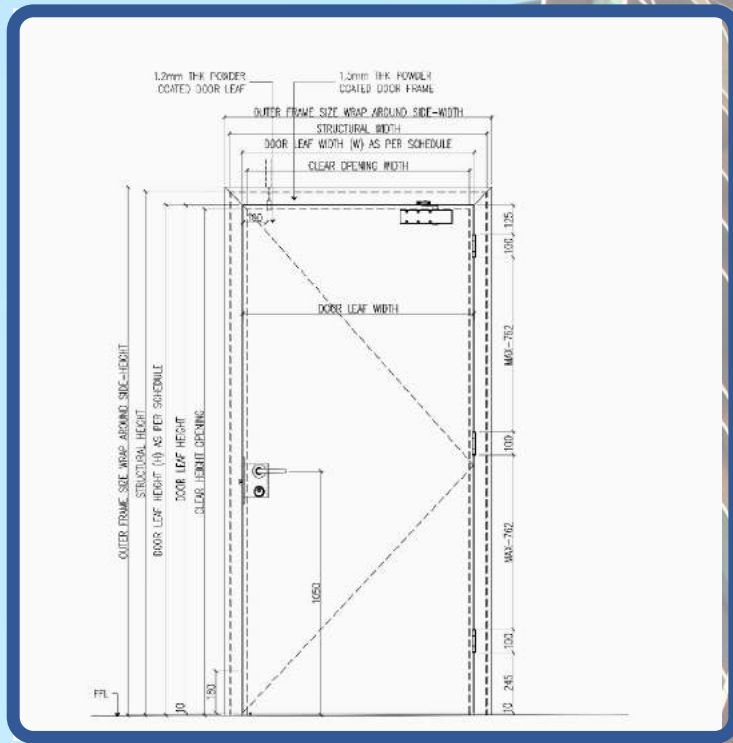


TYPICAL DOOR TYPES

DOUBLE DOOR ELEVATION



SINGLEDOR ELEVATION





**IAM-100 Series -
Honeycomb core
door**



**IAM-200 Series -
Polystyrene core
door**



**IAM-300 Series -
Wooden door**

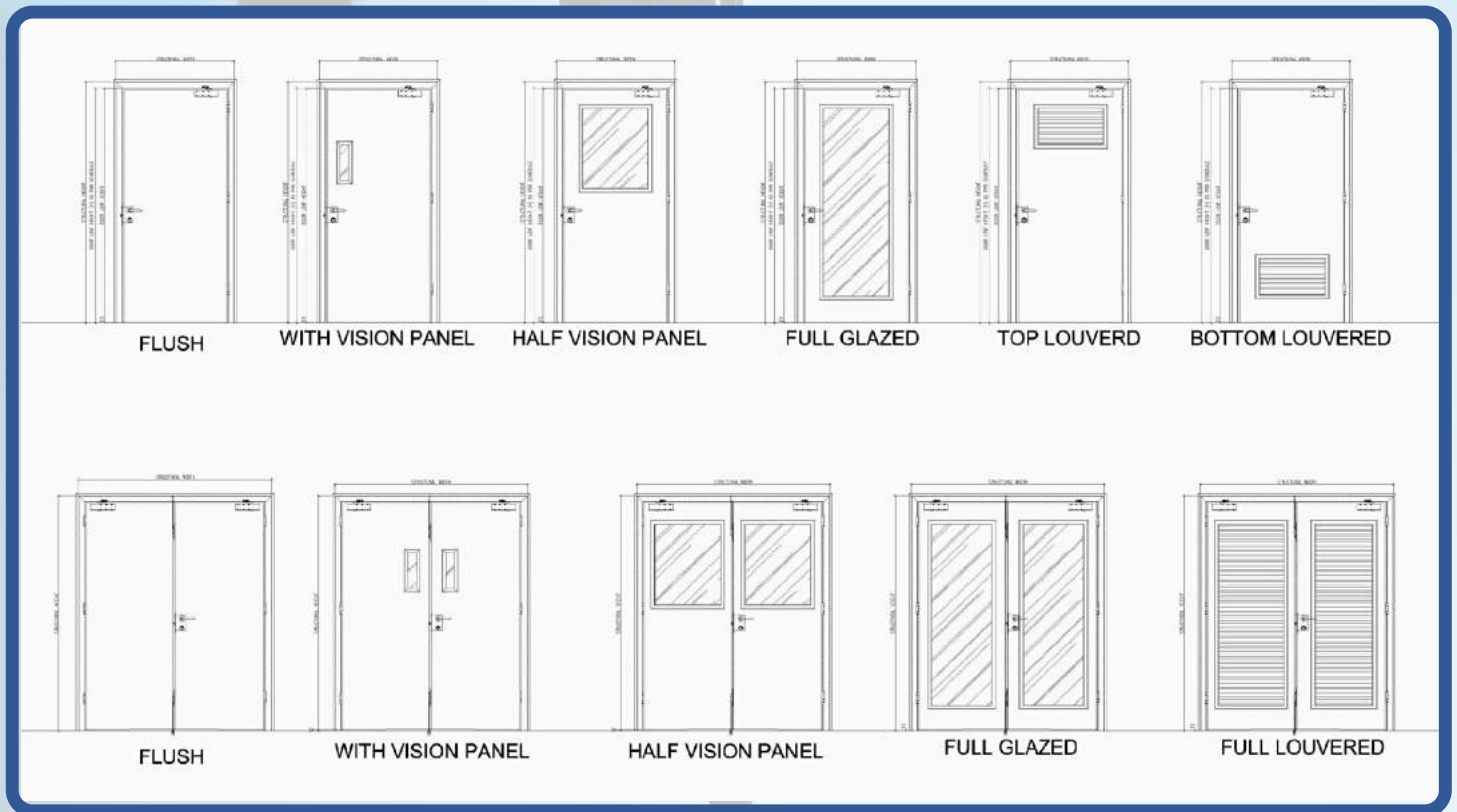


**IAM-400 Series -
Stiffened Door
with Rock wool
insulation**



**IAM-500 Series -
Glass door**

DOOR ELEVATION



1AM-100 Series:

Pre-foamed Honey Comb bonded to both Door skins using a heated power press thus ensuring maximum adhesion and flat warp and distortion free panel.

1AM-200 Series:

Pre-foamed polystyrene slab of 18Kg/ m³. [1.12pcf] density, filling the inside of the door and secured to face skins with adhesive.

1AM-400 Series:

Constructed using 0.8mm (22 gauge) thick vertical steel stiffeners welded to each face of the door at 100mm centers and spaced 190mm centers. Voids are filled with rock wool insulation.



FIRE RATED STEEL FRAME

PRODUCT

FRAME CONSTRUCTION

Frames are constructed of 1.2mm (18 gauge) or 1.5mm (16 gauge) or 2mm (14 gauge) or 2.5mm (12 gauge) commercial quality cold rolled steel ASTM A366 or hot dip galvanized steel sheet ASTM A526, G90 for doors of either 45mm (13/4") or 35mm (13/8") thickness with the details conforming to SDI 111A. All bends shall be formed with a true sharp radii.

WELDED FRAMES

Welded frames will be factory assembled, face welded and ground smooth. All welded frames will include the appropriate anchors to match the wall construction they are intended to be installed.

KNOCKED DOWN FRAMES

All KD frames will include the appropriate anchors to match the wall construction, they are to be installed with appropriate reinforcement.

ARCHITECTURAL ENTRANCES, SIDELIGHTS AND BORROWED LITES

INDOORAXE METAL will provide all architectural entrances, sidelights and borrow elites fabricated from 1.5mm(16gauge) cold rolled or hot dipped galvanized steel sheet. Construction, preparations and profiles to match masonry frames. All mullion sections to be closed. All joints and corners of the assembly shall be face welded and ground smooth. INDOORAXE Metal will provide steel channel glazing beads for all areas with glass. Field joints shall be permitted when the size of the total assembly exceeds shipping limitation.

HARDWARE PREPERATION

HINGE PREPERATION

INDOORAXE METAL will provide frames with 4.0mm thick steel hinge reinforcements welded to the frames in compliance with SDI-100. Standard hinge preparation is to be 41/2"x4" for regular weight 0.134" thick hinge, three preparations through 2286 mm(7'6") height and four preparations over 2286mm (7'6") and up to 3048mm(10) height in compliance with NFPA 80.

STRIKE PREPERATION

INDOORAXE METAL will provide frames with 3.0mm thick steel lock strike reinforcement with tapped holes welded to the Frame. Standard strike preparation is 2 3/4 or 47/2.

CLOSER AND OTHER REINFORCEMENT

INDOORAXE Metal will provide all frames with minimum 2.0mm(14 gauge) reinforcement as necessary to support the scheduled hardware in compliance with ANSI/SDI-100. Drilling and tapping for surface applied hardware to be performed at he building site by others.

PLASTER GUARD

INDOORAXE Metal will provide 1.2mm thick steel plaster guard or mortar boxes at the back of hardware cut-outs in the frames.

GENERAL

SCOPES

This specification applies to standard steel frames as shown on the plan and door schedules and as manufactured by Green HOLLOW METAL DOORS LLC

QUALITY ASSURANCE

INDOORAXE METAL will provide frames in compliance with ANSI/SDI-100 requirements. INDOORAXE Metal will provide fire rated frames labeled and listed by UL (or) Warringtonfire-mideast.

GLAZING

Frames are to be provided with steel channel glazing beads for installation of glazing. Installation of glazing shall be by others.

PAINTING

After fabrication frames thoroughly cleaned (to assure proper adhesion) and polyester powder coated finish applied. Wooden finish paint will be provided as a optional finish.

FIRE PREPERATION

Labeled fire rated door frames tested in accordance with UL(or) Warringtonfire-mideast with rating as specified in the plans and door schedule. Fire doors & frames are to be manufactured by INDOORAXE Metal in accordance with the approved procedures issued by UL (or) Warringtonfire-mideast.

LABEL

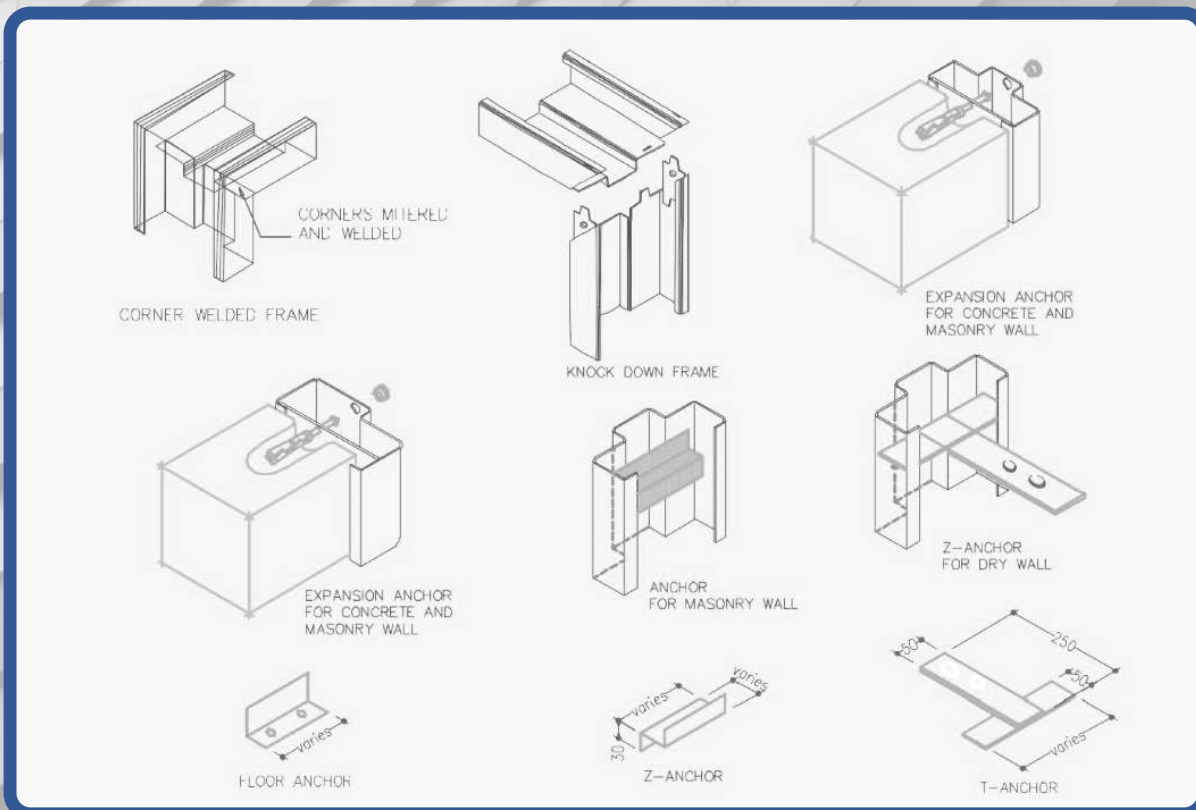
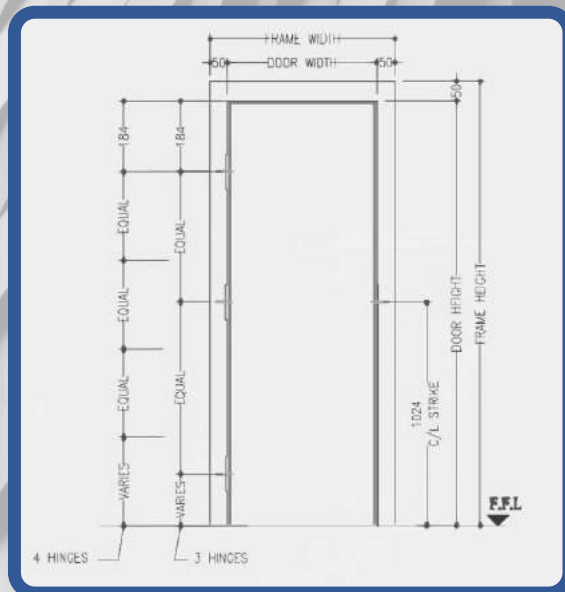
Fire rated frames shall bear the appropriate fire labels.

EXECUTION

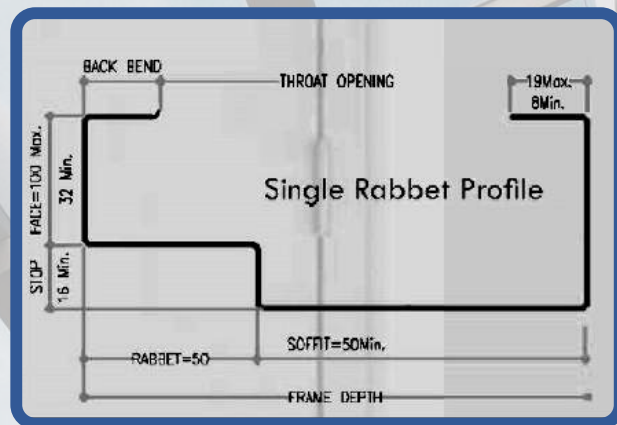
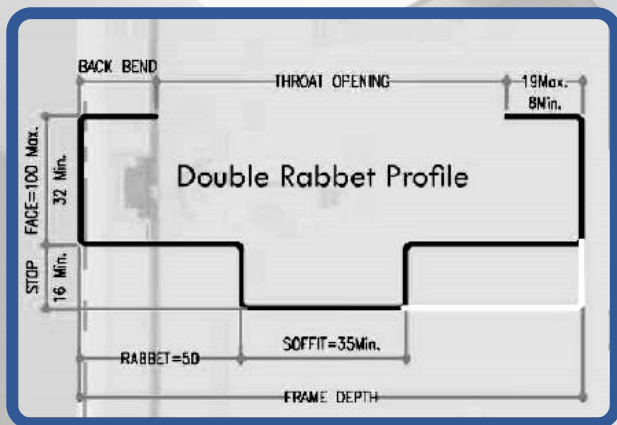
Installation of the frames plumb, square and in true alignment in compliance with SDI-122 installation and troubleshooting guide for standard steel doors & frames.



STEEL DOOR ELEVATION

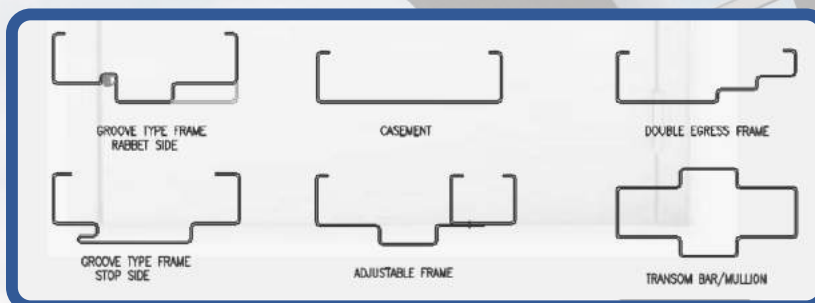


TYPICAL PROFILE DETAILS



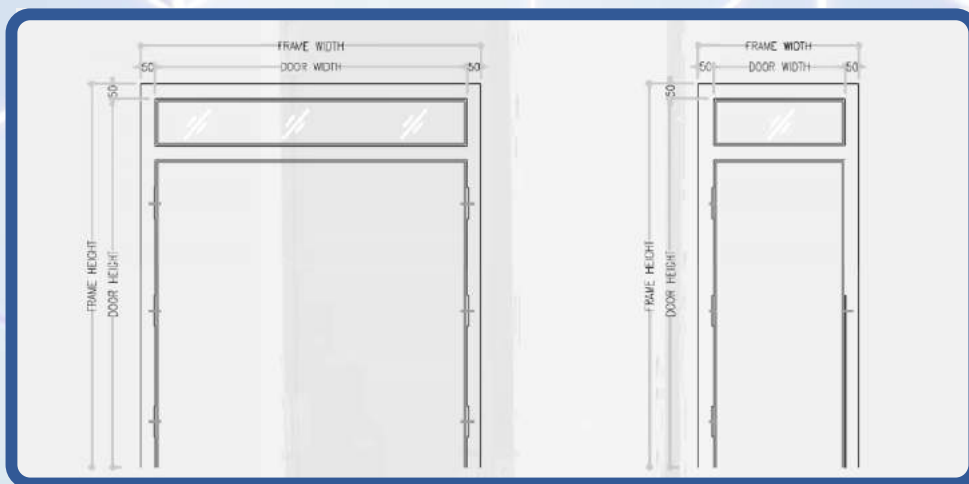
FRAME PROFILE

Labeled frames shell manufactured from cold rolled or galvanized steel sheet. Bends shall be brake formed to assure true, sharp radius and to minimize camber. Labeled Masonry and Dry wall frames can be shipped either knockdown or welded. Transom framed shall be shipped welded only. Standard hardware preparations for labeled fire door Frames for 45mm (13/4") thick doors Max. 3Hrs. Fire Label Provided



TYPICAL DETAILS

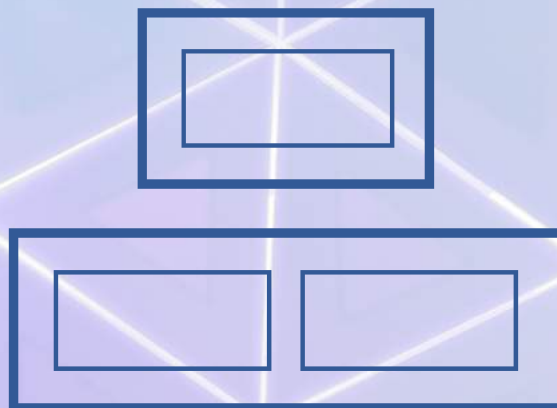
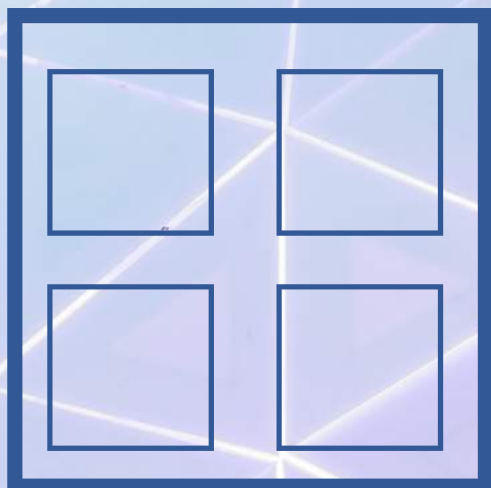
TRANSOM FRAMES



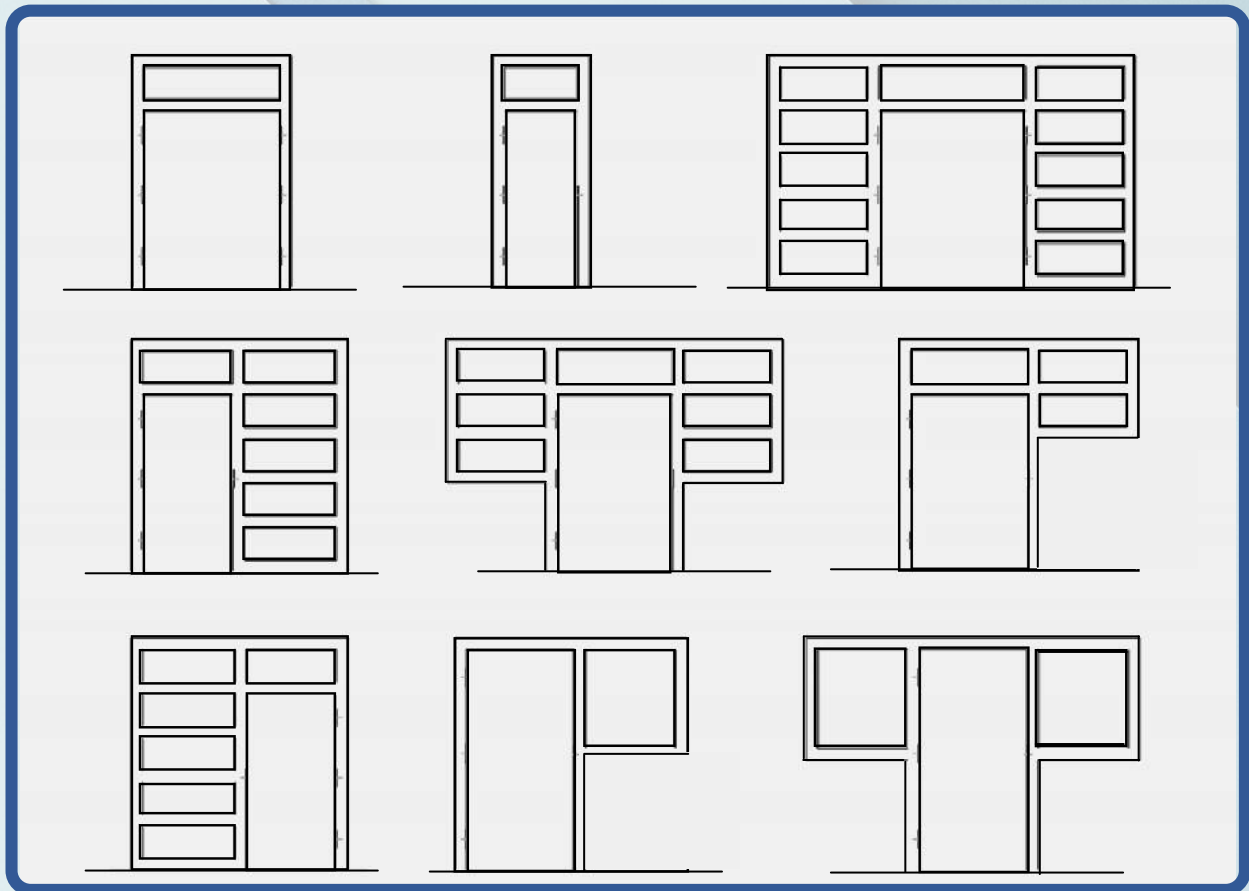
Maximum Overall Size Frame:
 1320 x 3100 mm, for Single
 2540 x 3100mm for Pair

Transom Frames must be shipped from factory as set-up welded units with panels installed.

FIRE WINDOW FRAMES



TYPICAL ELEVATIONS



Transom side light frames may be of 1.5mm (16ga.) or 2.0mm. (14ga.) Steel Sheet

Maximum Frame Size:

3650 x3048mm or 3048x3650mm. (For Masonry)

Wall installations end:

3650 x3048mm. for dry wall installations.

Maximum Door Opening Size:

1220x2438mm. for single

2438x2438mm. for pair

Jamb Depth:

120mm.min thru 323mm.max.

(4(3/4)" thru 12(3/4)")

Maximum Throat Opening:

114mm for masonry Wall; 92mm. for dry wall



Pictures of a sample doors being tested in a private lab for pre-assessment & pre-qualification procedures.

The Unexposed face of the doorsets to the fire after 120 minutes of testing



The exposed face of the doorsets to the fire immediately after testing



PAST PROJECTS

Members at Indoor Axe have been working in Interior designing field and successfully completed dozens of reputed projects in India & Abroad as well.

With the most talented and dedicated employees from around the India, INDOOR AXE METAL has over 25 team members including 4 passionate engineers. We are currently exporting to over 10 countries worldwide.



UAE PAVILION



WILD WADI WATER PARK

PAST PROJECTS



ABUDHABI AIRPORT



BPGIC-FUJAIRAH



CITY-CENTRE-DEIRA



ONE ZABEEL

PAST PROJECTS



OMAN-MUSCAT-
AIRPORT



MINISTRY OF LABOUR
AND SOCIAL AFFAIRS



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OMAN



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