

NAVAIR
INTERNATIONAL PVT. LTD.



**Underwriters
Laboratories**

IFC certification



**Warrington
Tested**

www.navairindia.com



NAVAIR PRODUCTION FACILITY



AWARDS & RECOGNITION



FROM THE CEO'S DESK

Dear Patrons,

NAVAIR International Limited. It took us a few decades to establish ourselves in the space of Fire Protection Products. Partnering with numerous institutions and providing them with tailored solutions. Our commitments and precision standards of quality are the cornerstone of our reputation.

Starting our journey in 1982 to serve the nation with what matters most to mankind, Security & Peace of mind, we began and soon pioneered the art in the field of passive fire protection solutions. We take pride to announce that we are responsible for the concept of Passive Fire Protection in India.

We swear by our quality standards. Our quality checks consists of repetitive testing every 3 years for almost all our products. Exceeding industry standards in terms of internal and external quality checks, we are the only company in the industry who has the entire product range for Passive fire protection i.e. Steel and Wooden Doors, Fire Retardant paints for Wood surfaces, Intumescent Fire Resistant frames for Cables and Load bearing Steel Structures, Fire rated Foams and Fire Stops, all under one umbrella NAVAIR.

NAVAIR, a brand that offers a comprehensive solution to its partners, at par with international product standards. We are proud winners of National Award of Import Substitution by the Honorable Govt. of India for our manufactured product.

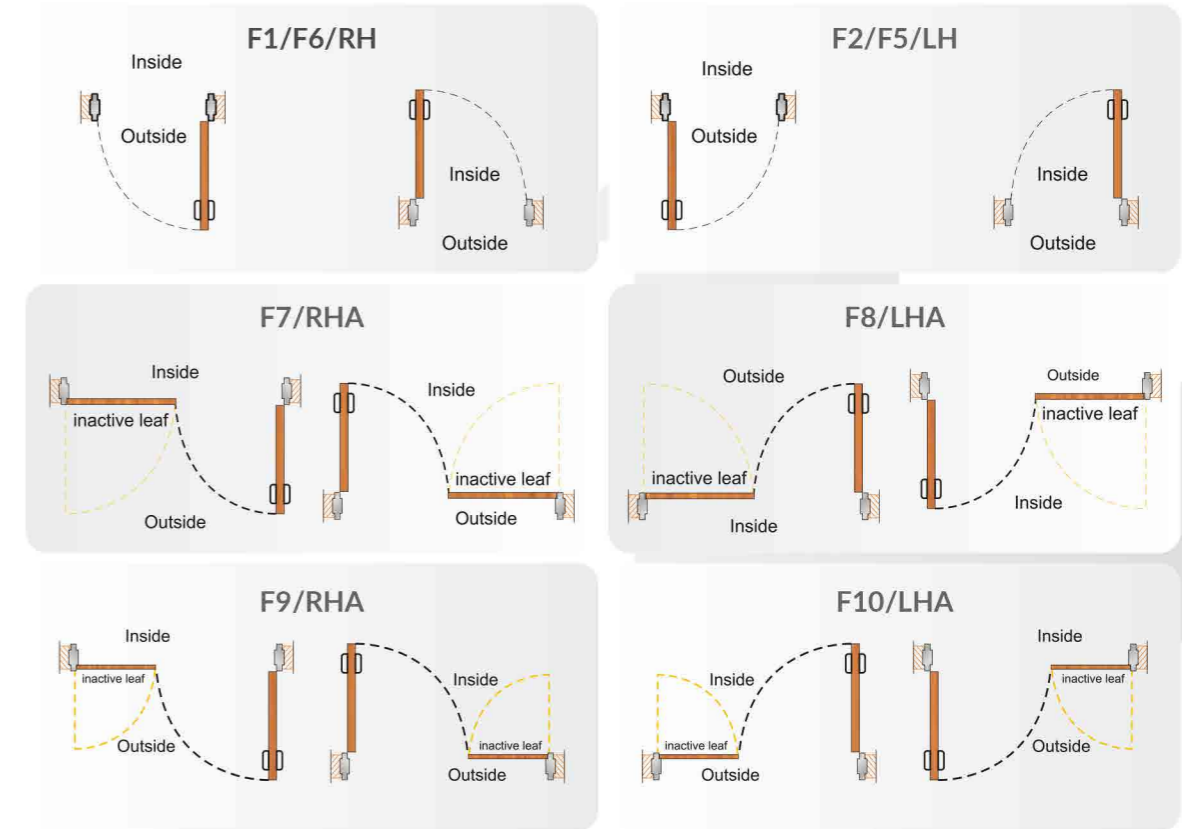
In the endeavor to expand our product portfolio, we have tied up with several global leaders. We are OEMs with M/s Vetrotech Saint Gobain India for Fire Rated Glazing Products, Importers and Dealers of Fire Rated Hardware, with leading global hardware brands, importers and turnkey solution providers for Intumescent Pain for Loading Bearing Steel Sections with M/s Nullifier U.K.

We Pledge - To be the pride of this country and to humbly service our esteem partners in business with the best solutions.

We look forward to your continued and endless support, so we could support you endlessly.

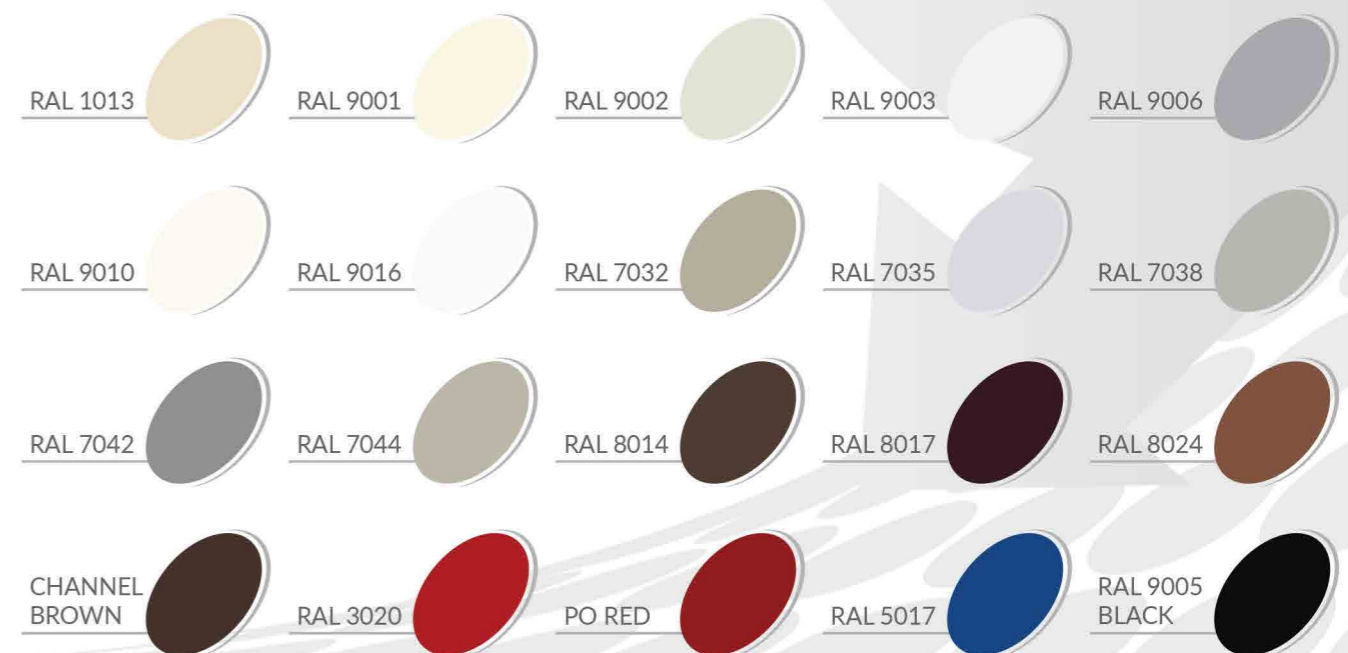
Asheet Taneja
CEO, Navair International Limited

DOOR HANDING

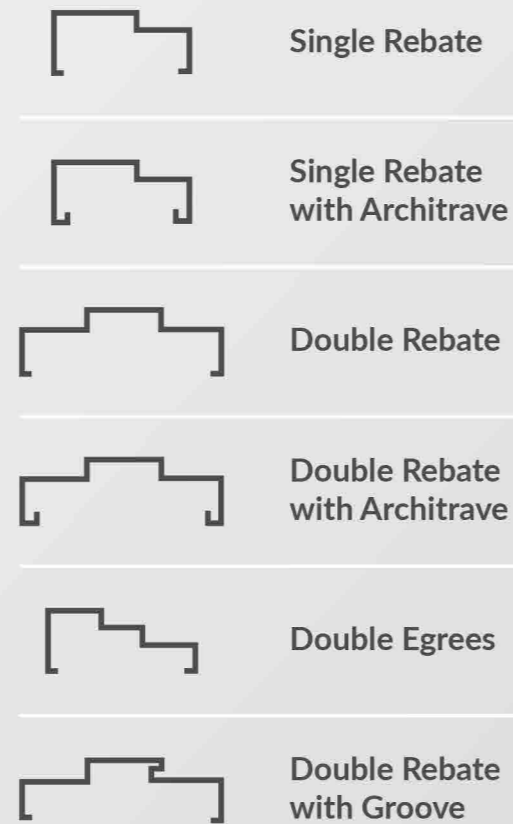


* The Above sketches are only indicative, actual products may vary.

COLOR PALETTE



TYPES OF FRAME





UL STEEL FIRE RATED DOOR



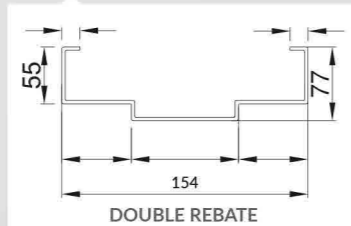
DOUBLE LEAF

INNER FILLING



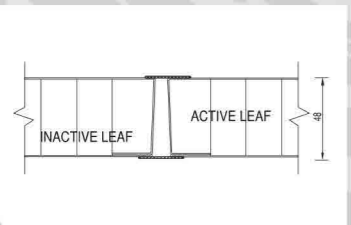
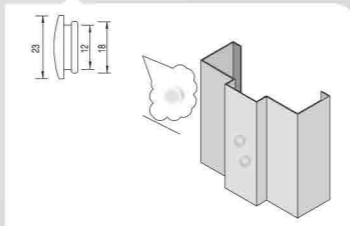
WOOL INSULATION

FRAME SECTION

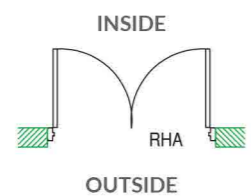


DOUBLE REBATE

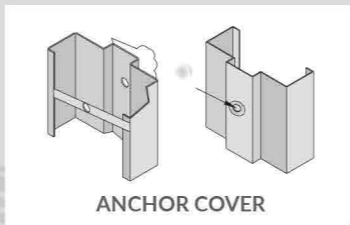
ANCHOR COVER



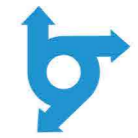
ASTRAGEL DETAIL



DOOR HANDING



ANCHOR TYPE



NAVAIR INTERNATIONAL PVT. LTD.

CONSTRUCTION DETAILS

BRAND - NAVAIR

| | |
|--------------------|---|
| Door Type: | UL Steel Fire Rated Door |
| Criteria: | Stability & Integrity with Insulation material |
| Rating: | 120 mins |
| Shutter Thickness: | 49 mm |
| Frame Section: | 154 mm x 77 mm |
| Infill Density: | 150 Kg / M ³ |
| Testing Standards: | BS 476 Part 20 - UL 10B, UL 10C (Positive Pressure) |
| Test Laboratory: | Underwriters Lab |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.2mm Thick Sheet GI-GPSP Sheet
3. Max Glass Vision Panel Size - 280 x 720 x 5mm
4. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
5. Machinery interlocked face sheets with interlocked edges
6. Top Channel Flush as standard
7. Bottom channel inverted as optional
8. Steel Hinge reinforcement for full mortise type hinge
9. Max Door size SD - 1050 x 2400mm & DD - 2000 x 2400mm (Civil)

RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available



* The Above sketches are only indicative, actual products may vary.



UL STEEL FIRE RATED DOOR



NAVAIR
INTERNATIONAL PVT. LTD.

CONSTRUCTION DETAILS

BRAND - NAVAIR

| | |
|--------------------|---|
| Door Type: | UL Steel Fire Rated Door |
| Criteria: | Stability & Integrity with Insulation material |
| Rating: | 120 mins |
| Shutter Thickness: | 45 mm |
| Frame Section: | 150 x 67(Double Rebate) |
| Infill Density: | 48 Kg / M ³ |
| Testing Standards: | BS 476 Part 20 - UL 10B, UL 10C (Positive Pressure) |
| Test Laboratory: | Underwriters Lab |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.2mm Thick Sheet GI-GPSP Sheet
3. Max Vision Panel Size - 280 x 720 x 5mm
4. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
5. Machinery interlocked face sheets with interlocked edges
6. Top Channel Flush as standard
7. Bottom channel inverted as optional
8. Steel Hinge reinforcement for full mortise type hinge
9. Max SD size 1300 x 2400mm (Civil)

RECOMMENDED FINISHES

FRAME & DOOR LEAF

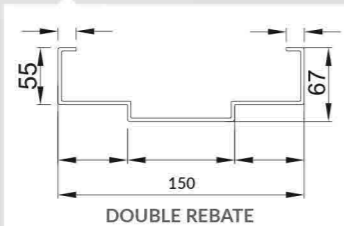
1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available

INNER FILLING



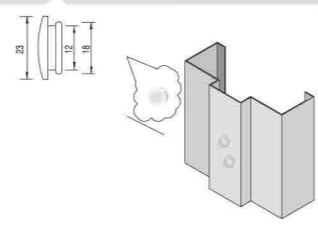
WOOL
INSULATION

FRAME SECTION

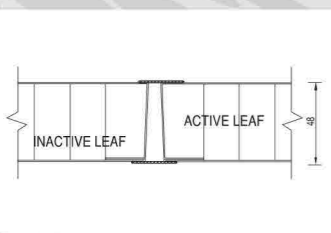


DOUBLE REBATE

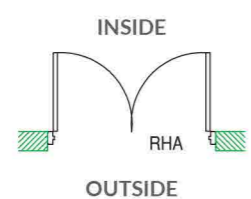
ANCHOR COVER



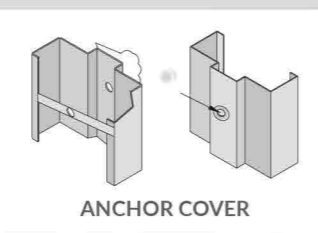
ANCHOR COVER



ASTRAGEL DETAIL



DOOR HANDING



ANCHOR TYPE





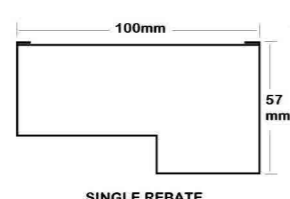
DOUBLE LEAF

INNER FILLING



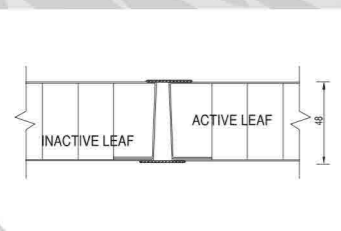
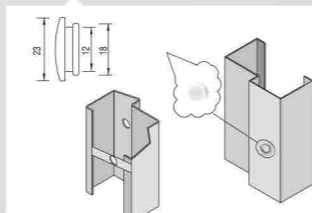
WOOL INSULATION

FRAME SECTION

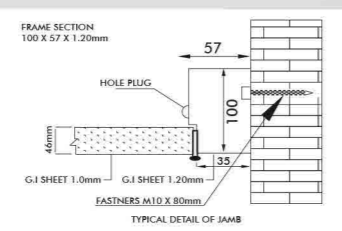


SINGLE REBATE

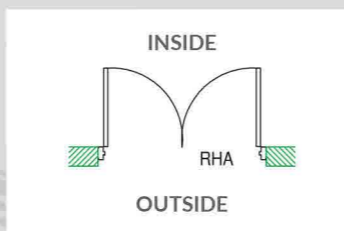
ANCHOR COVER



ASTRAGEL DETAIL



FRAME & SHUTTER SECTION



DOOR HANDING

CONSTRUCTION DETAILS

BRAND - FUERTE Series -2

| | |
|--------------------|--|
| Door Type: | BS Steel Fire Rated Door |
| Criteria: | Stability & Integrity with Insulation material |
| Rating: | 120 mins |
| Shutter Thickness: | 45 mm |
| Frame Section: | 100 x 57mm (Single Rabate) |
| Testing Standards: | BS 476 Part 20 - 22 |
| Test Laboratory: | Thomas Bell Wright / IFCC |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.2mm Thick Sheet GI-GPSP Sheet
3. Max Vision Panel Size - 520 x 620 x 5mm
4. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
5. Machinery interlocked face sheets with interlocked edges
6. Top Channel Flush as standard
7. Bottom channel inverted as optional
8. Steel Hinge reinforcement for full mortise type hinge
9. Max SD size 1200 x 3000mm & DD size 2770 x 3000mm (Civil)
10. Acoustic rating of 41dB (ASTM E90-09 & ASTM E413-16) can be achieved with use of appropriate Acoustic Seals (As per AFE Test Report # DLR1621 - Rev.0)
11. Acoustic rating of 52dB (ASTM E90-09 & ASTM E413-16) can be achieved with use of appropriate Acoustic Seals (As per AFE Test Report # DLR1622 - Rev.0)

RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available





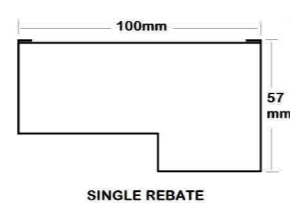
DOUBLE LEAF

INNER FILLING



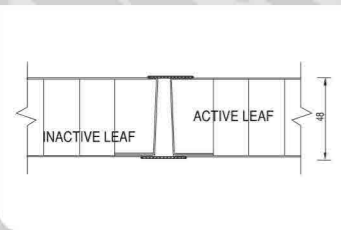
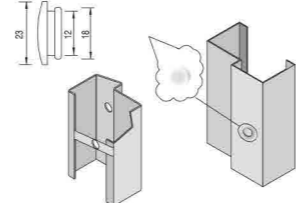
WOOL INSULATION

FRAME SECTION

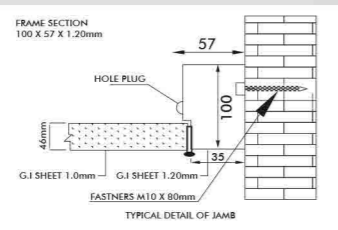


SINGLE REBATE

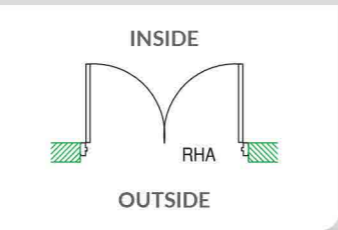
ANCHOR COVER



ASTRAGEL DETAIL



FRAME & SHUTTER SECTION



DOOR HANDING

CONSTRUCTION DETAILS

BRAND - FUERTE Series -3

| | |
|--------------------|--|
| Door Type: | BS Steel Fire Rated Door |
| Criteria: | Stability & Integrity with Insulation material |
| Rating: | 180 mins |
| Shutter Thickness: | 45 mm |
| Frame Section: | 100 x 57mm (Single Rabate) |
| Testing Standards: | BS 476 Part 20 - 22 |
| Test Laboratory: | Thomas Bell Wright / IFCC |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.2mm Thick Sheet GI-GPSP Sheet
3. Max Vision Panel Size - 520 x 620 x 5mm
4. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
5. Machinery interlocked face sheets with interlocked edges
6. Top Channel Flush as standard
7. Bottom channel inverted as optional
8. Steel Hinge reinforcement for full mortise type hinge
9. Max SD size 1200 x 2900mm & DD size 2440 x 2900mm (Civil)
10. Acoustic rating of 41dB (ASTM E90-09 & ASTM E413-16) can be achieved with use of appropriate Acoustic Seals (As per AFE Test Report # DLR1621 - Rev.0)
11. Acoustic rating of 52dB (ASTM E90-09 & ASTM E413-16) can be achieved with use of appropriate Acoustic Seals (As per AFE Test Report # DLR1622 - Rev.0)

RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available



CONSTRUCTION DETAILS

BRAND - VASO Series - 6

| | |
|-----------------------|---|
| Door Type: | BS Steel Fire Rated Door |
| Criteria: | Stability & Integrity with Infill Insulation material |
| Rating: | 60 mins |
| Fire Glass Thickness: | 6 mm (Monolithic Toughened FR Glass) |
| Shutter Thickness: | 50 mm |
| Frame Section: | 143 x 57mm (Double Rabate) |
| Testing Standards: | BS 476 Part 20 - 22, IS 3614 Part 2 |
| Test Laboratory: | Thomas Bell Wright / IFCC |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.6mm Thick Sheet GI-GPSP Sheet
3. Max Vision Panel Size - 520 x 620 x 5mm
4. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
5. Machinery interlocked face sheets with interlocked edges
6. Top Channel Flush as standard
7. Bottom channel inverted as optional
8. Steel Hinge reinforcement for full mortise type hinge
9. Max SD size 1200 x 2400mm & DD size 2400 x 2400mm (Civil)

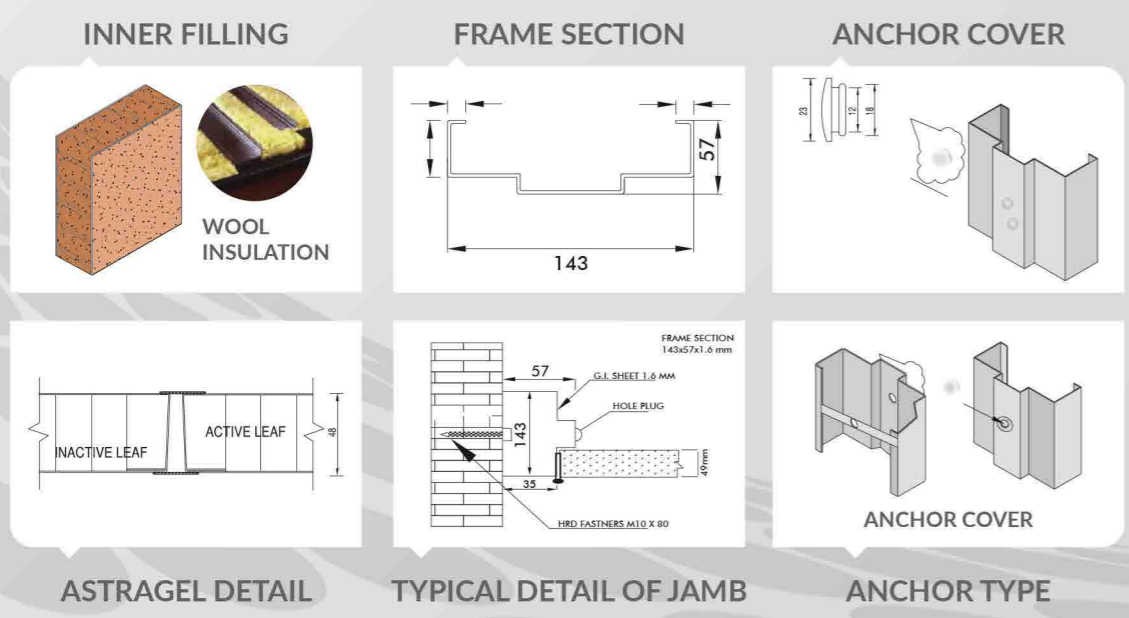
RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available



DOUBLE LEAF



* The Above sketches are only indicative, actual products may vary.



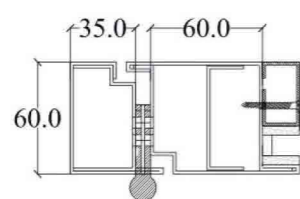
DOUBLE LEAF

INNER FILLING

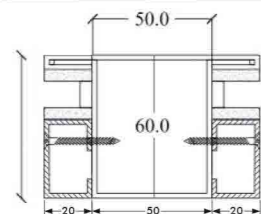
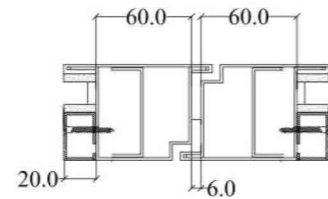


WOOL INSULATION

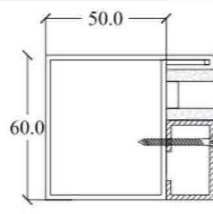
FRAME SECTION



DOOR MEETING STILL



SECTIONAL DETAILS OF MULLION MEMBER FOR FIXED PARTITION



SECTIONAL DETAILS OF FIXED PARTITION

* The Above sketches are only indicative, actual products may vary.

CONSTRUCTION DETAILS

BRAND - VASO Series - 11

| | |
|-----------------------|--|
| Door Type: | BS Steel Fire Rated Door |
| Criteria: | Stability & Integrity with partial Insulation as per NBC guideline |
| Rating: | 120 mins |
| Fire Glass Thickness: | 11 mm (Interlayered FR Glass with Radiation Control as per NBC 2016) |
| Shutter Thickness: | 60 mm |
| Frame Section: | 60 x 50mm |
| Testing Standards: | BS 476 Part 20 - 22 |
| Test Laboratory: | Certifire, Exova Warrington / IFCC |

DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.6mm Thick Sheet GI-GPSP Sheet
3. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
4. Machinery interlocked face sheets with interlocked edges
5. Tested with Fully Glazed Panel for 120 minutes rating with Saint Gobain 11mm thick Saint Gobain Contraflam Lite Fire Rated Toughened Glass
6. Tested with Top & Side Light Panels for 120 minutes rating with Saint Gobain 14mm thick Saint Gobain Contraflam Lite Fire Rated Toughened Glass
7. Max size 2900(W) x 3700 (H)mm including Fixed panels

RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available



CONSTRUCTION DETAILS

BRAND - VASO Series -14

| | |
|-----------------------|--|
| Door Type: | BS Steel Fire Rated Door |
| Criteria: | Stability & Integrity with partial Insulation as per NBC guideline |
| Rating: | 120 mins |
| Fire Glass Thickness: | 14 mm (Interlayered FR Glass with Radiation Control as per NBC 2016) |
| Shutter Thickness: | 60 mm |
| Frame Section: | 60 x 50mm |
| Testing Standards: | BS 476 Part 20 - 22 |
| Test Laboratory: | Certifire, Exova Warrington / IFCC |

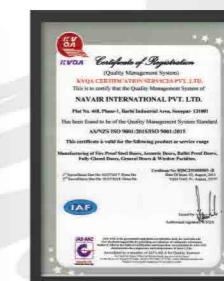
DETAIL DESCRIPTION

1. Frame - 1.6mm Thick Sheet GI-GPSP Sheet
2. Door leaf - 1.6mm Thick Sheet GI-GPSP Sheet
3. Door Leaf Infill Insulation - Wool Insulation Infill treated with VIPER FRS 881 LH
4. Machinery interlocked face sheets with interlocked edges
5. Tested with Fully Glazed Panel for 120 minutes rating with Saint Gobain 14mm thick Saint Gobain Contraflam Lite Fire Rated Toughened Glass
6. Tested with Top & Side Light Panels for 120 minutes rating with Saint Gobain 14mm thick Saint Gobain Contraflam Lite Fire Rated Toughened Glass
7. Max size 2900(W) x 3700 (H)mm including Fixed panels

RECOMMENDED FINISHES

FRAME & DOOR LEAF

1. Power Coating in desired RAL Shade Code
2. Polyurethane Coating in desired RAL Shade Code
3. Selective Wood Grain Finishes available



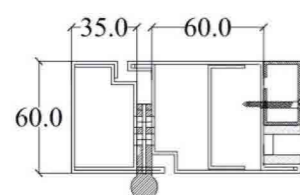
DOUBLE LEAF

INNER FILLING

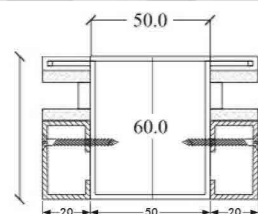
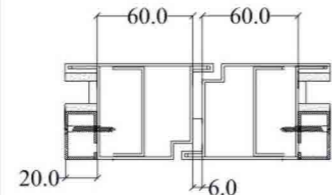


WOOL INSULATION

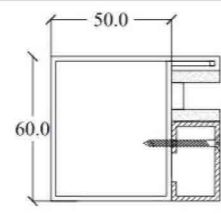
FRAME SECTION



DOOR MEETING STILL



SECTIONAL DETAILS OF MULLION MEMBER FOR FIXED PARTITION



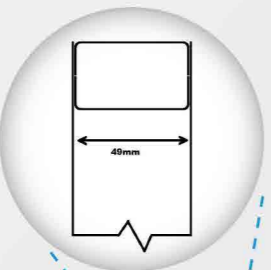
SECTIONAL DETAILS OF FIXED PARTITION

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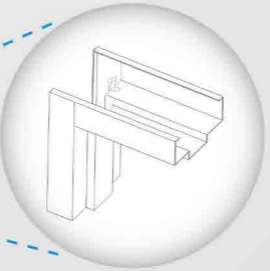
OVERHEAD DOOR CLOSER



TOP C CHANNEL

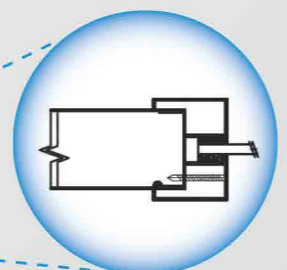


NAVAIR INTERNATIONAL (P) LTD.
FILE NO: R37881
FIRE DOOR FRAME
NO: B66039503

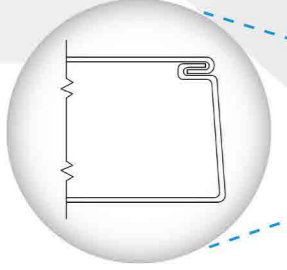


BUTT JOINT FRAME

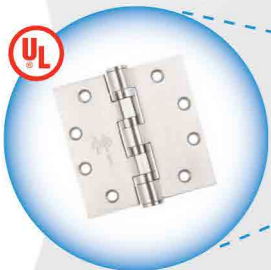
NAVAIR INTERNATIONAL (P) LTD.
FILE NO: R37881
SWINGING-TYPE FIRE DOOR
STANDARDS: UL 10B / 10C
FIRE RATING: 2 1/2 HR
NO: B66037697



VISION PANEL DETAIL



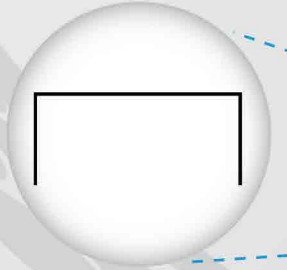
SHUTTER CONSTRUCTION SECTION



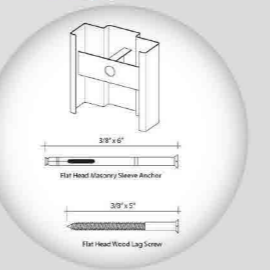
BALL BEARING HINGE



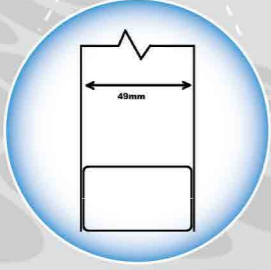
SINGLE POINT LATCH LOCK WITH LEVER HANDLE



STIFFENER DETAIL



ANCHOR PLATE DETAIL



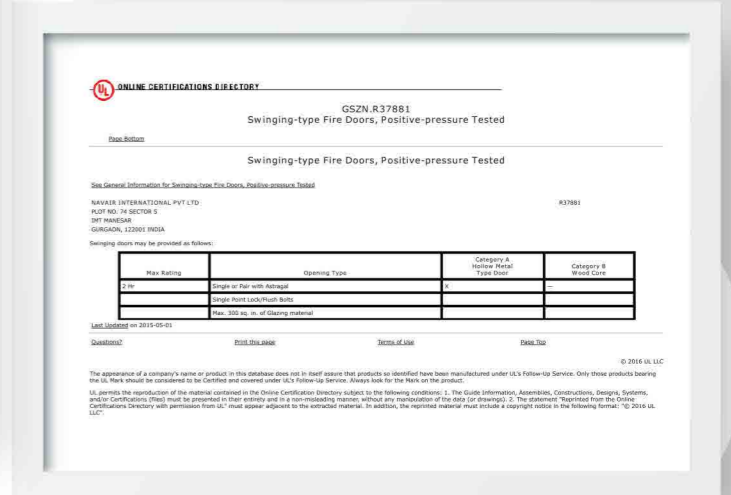
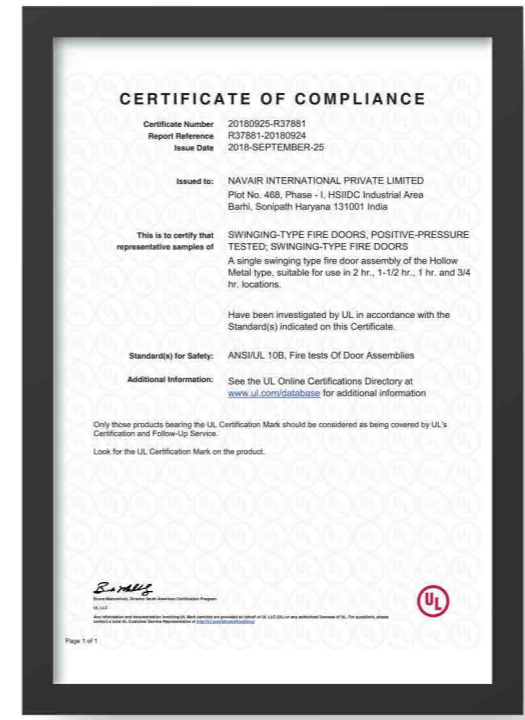
BOTTOM C CHANNEL



MINERAL WOOL INFILL



CERTIFICATES



* The Above sketches are only indicative, actual products may vary.

NAVAIR PROJECTS - INTERNATIONAL

NAVAIR PROJECTS IN KUWAIT

1. Construction, Completion & Maintenance for Renovation and Development of Ministries Complex Buildings
2. College of Social Science & Sharia Law
3. Ministry of Public Works
4. PAAF Admin Building
5. Al-Khalid Tower-Bldg. 79, 80 & 83, Salmiya.
6. Car Parking Building, MOJ.
7. Regional Organization for Protection of Marine Environment

NAVAIR PROJECTS IN BANGLADESH

1. Epyllion Fabrics Ltd.
2. Clifton Textile & Apparels Ltd.
3. Eastern Knitwear Ltd.
4. Anupam Hosiery (Pvt.) Ltd.
5. Dress & Dismatic (Pvt.) Ltd.
6. Best Shirts Ltd.
7. Chittagong Asian Apparels Ltd.
8. Mohara Asian Apparels Ltd.
9. ATS Pearl Ltd.
10. Ventura (Bangladesh) Ltd.
11. Evitex Apparels Ltd.
12. Smart Jeans Ltd.
13. Smart Jacket (BD) Ltd.
14. Sung Kwang Apparels Ltd.
15. Mamun Knitwear Ltd.
16. IRIS Fashions
17. IRIS Design
18. IRIS Fabrics
19. Sea Blue Textile Ltd.
20. TM Fashions Ltd.
21. Aswad Composite Mills Ltd.(Palmal Group)
22. Epyllion Style Ltd.
23. Jay Jay Textiles PLC
24. Saad Musa Fabrics Ltd.
25. Lavender Garments Ltd.
26. Mozart Knit Ltd.
27. XIN CHANG SHOES (BD) LTD.
28. R.S.B. Industrial Ltd.
29. ZA Apparels Ltd.
30. Design & Source Ltd.
31. Intex Link Garments (BD) Ltd.
32. Amazing Fashions Ltd.

NAVAIR PROJECTS IN QATAR

1. Flare Trading & Contracting WLL
2. British Aluminium LLC, Doha

NAVAIR PROJECTS IN ETHIOPIA

1. Jay Jay Textiles PLC

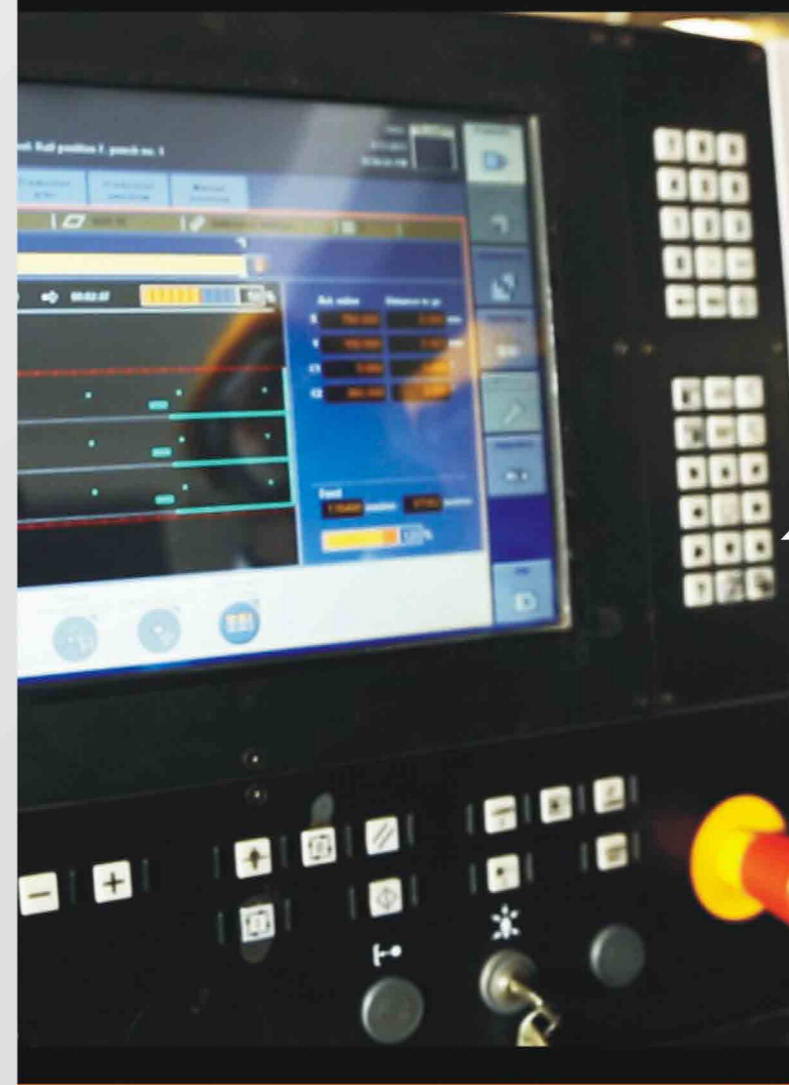
NAVAIR PROJECTS IN MAURITIUS

1. HM Alliance – Renaatus, Port Louis

NAVAIR PROJECTS IN NEPAL

1. Adarsha Nirman Company Pvt. Ltd.-DRC
2. British Council

33. Mint Apparels Ltd.
 34. A.T.S. Apparels Ltd.
 35. DAF Knitwear Ltd.
 36. Geebee Garments Industries Ltd.
 37. Billah Resources Ltd.
 38. Creative Collections Ltd.
 39. Fashion Step Ltd.
 40. Needle Drop Ltd.
 41. Stitchwell Designs Ltd.
 42. Sinha Knit Industries Ltd.
 43. Fortis Garments
 44. A.T.S. Apparels Ltd.
 45. Eve Dress Shirts Ltd.
 46. R.M Automobiles.
 47. Panorama Apparels Ltd.
 48. M.M Knitwear Ltd.
 49. Mastrade International Garments Ltd.
 50. Total Fashions Ltd.
 51. Sinha Fabrics Ltd.
 52. Eastern Knitwear Ltd.
 53. Hong Kong Jiasheng International
 54. Critical Stop Ltd.
 55. Ventura (Bangladesh) Ltd.
 56. Clifton Textile & Apparels Ltd.
 57. Clifton Cotton Mills Ltd.
 58. Panorama Apparels Ltd.
 59. House of Caps and Clothing Ltd.
 61. Critical Stop Ltd.
 62. M.M Knitwear
 63. Max Infrastructure Ltd.
- Rooppur Nuclear Power Plant





Kuwait Fire Service Directorate

United Arab Emirates
Ministry Of Interior

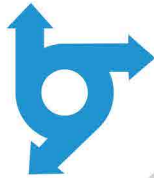


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