

FLT-400 THERMAL ENTRANCES

THERMAL FLUSH PLANK DOORS

The FLT-400 series entrances are another heavy duty flush plank door. This flush plank door design is unique in that we are incorporating all the strength and security of our standard FL-400 door line but improving its thermal efficiency. Cross Aluminum took the European approach to thermally improving aluminum profiles. Cross used the thermal strut technique in place of the typical pour and debridge so commonly used. The FLT-400 can be used in the same grueling environments our standard FL-400 door, it just adds a green element to the project. This door seems to be growing in popularity for customers that still want a rugged, but thermally-improved door.

These entrances come with Cross Aluminum's standard ten (10) year warranty on materials and workmanship.



FLT-400 FEATURES



Maintenance Free- All entrances come with our standard 10 year warranty.



Forced Entry- Tested in accordance with AAMA 1304.



Therma Bar- Thermal I-Strut™ mechanically attached to every plank.



Retro Fit- Entrances can replace any existing opening and improve efficiency.



Dual Finish- Entry Systems can have alternate finishes from exterior to interior.



Inter Lock- Doors are interlocked together and completely sealed from the elements.



Custom Configurations- Configurations to match architectural decor of building.



Secure Glaze- Extruded non-removable exterior glazing stops.



Weather Barrier- Dual Weathering Protection at meeting stiles.



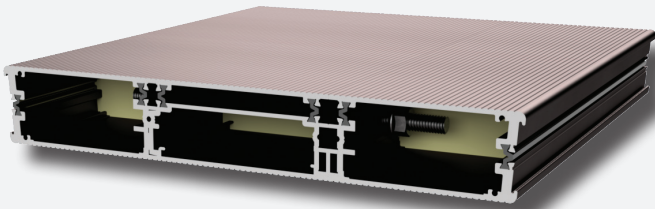
Eco Friendly- Secondary billet, acid-etch anodizing, and zero VOC emissions painting.

FLT-400 SERIES

THERMAL FLUSH PLANK DOORS

Attributes:

- Hinge and lock stiles are 3/16" (.1875") thick.
 - 3/8" (.375") steel tie rod 3 per door (2 for FG door type)
 - 3/8" (.375") thick wall every 4 inches. Minimum 1/2" (0.5") interlock every 4 inches.
 - Fluted pattern standard. Smooth pattern also available.
 - 1/8" (.125") Closer reinforcement (Eliminates through-bolting).
 - Custom finishes available.
 - 1-1/2" (1.5") Polyisocyanurate rigid board stock.
- "R" Value 11.23; U Value .089

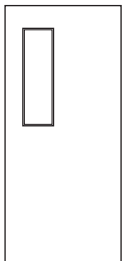


Advantages:

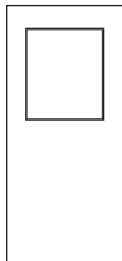
- No back up plates necessary for butt or geared hinges. This eliminates mortising into stile and weakening it.
- No additional charge for larger vision lites in doors.
- No need for hardware backups necessary.
- A true 1/8" wall thickness. Almost double the thickness of skin manufactured doors.
- Cross Aluminum will provide factory installation of any commercial door hardware as manufactured by other suppliers.

FLT-400 OPTIONS

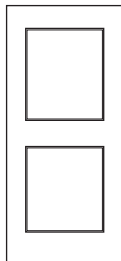
The FLT-400 entrances are constructed in a way that allows many visually-appealing options. Custom sizes and configurations of vision lites are available upon request. A few examples are shown below.



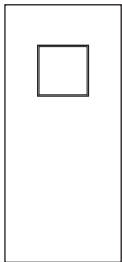
FLT-400 NG
Narrow Glass



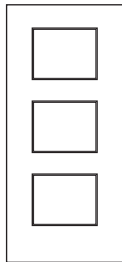
FLT-400 HG
Half Glass



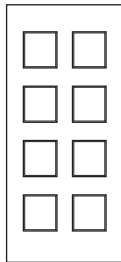
FLT-400 DG
Double Glass



FLT-400 SG
Square Glass



FLT-400 SG-3
Square Glass x 3



FLT-400 SG-8
Square Glass x 8

FLT-400 Material Details:

- Thermal flush doors are 1-3/4" thick.
- Multiple Thermal I-Strut™ profiles per door for added thermal properties and construction durability.
- Stiles are 4" wide, with a fluted surface and optional smooth surface.
- Door Face has nominal 1/8" wall thickness with 1/4" thick reinforcing wall every 4".
- 1/4" Reinforcement wall for closers so there is no need to through-bolt closers.
- Thermal flush plank doors are individual extrusions interlocked together with a minimum of 3 tie rods per door.*

*Note: Full Glass Doors will have 2 rods.

FLT-400 Glazing Details:

- Glass stops will always match finish on door unless specified otherwise.
- Exterior glazing is a part of the plank extrusion increasing security.
- Glass infill 1/4" through 1-5/16".

FLT-400 Finish Details:

- Custom and standard anodized, painted, and wood grain finishes.
- Exterior and interior can have different finish options on the same door.

FLT-400 Environmental Details:

- CRF 75 and U-factor of 0.35.
- Secondary billet.
- Acid-etch anodize.

FLT-400 Available Options:

- Can be glazed with Cross Aluminum's S-100 and FL-100 panels.
- Numerous muntin details available.
- Concealed card readers.
- Cross Aluminum's thermally-broken frame can be specified to increase entry system's overall thermal efficiency.

Tests:

AAMA 101-IS2 North American Fenestration (NAFS)
AAMA 920 Cycling Performance
AAMA 1304 Forced Entry
AAMA 1503 Condensation Resistance
ASTM E 283 Air Infiltration
ASTM E 330 Uniform Load Structural
ASTM E 331 Water Penetration
NFRC 102 Thermal Transmittance
ASTM E 90 Sound Transmission



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