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# COMMERCIAL DOORS



# ABOUT FIRE RATING

## Overview

RCR Steel Doors combine Fire Resistance with Door Functionality without compromising any aspect of both the requirements. These types of Doors reduce the Spread of Fire and enable Safe Egress, in-addition to offering highest degree of Compartmentalization. These types of Doors are highly preferred In all types of Buildings, nowadays, to offer Safe and Secure living and Egress. Our Technical Team is always available to offer advice and planning.

Standards & Certifications:

- UL 10(c) (1998)
- UBC 7-2 (1997)
- UBC 7-2 (1994)
- UL 10(b) (1997)
- ASTM E2074 (2000)
- NFPA 252 (2003)
- CAN/ULC S104 (1980 R1985)

Product Listed - RCR fire rated door with hose stream positive pressure tested.

- UL door certificate Number -- R38744
- UL door certificate Number - R38745
- UL lite frame certificate Number -- R38990
- Fire Resistance Louvers -- max size 24" X 24"
- Swing -- Single Swing
- Vision Panel -- LISTED



## Specification

--- Available in galvanized or stainless steel.
--- RCR doors with UL fire resistance available in 20 Ga. 18 Ga. 16 Ga
--- Each fire door has a label attached indicating the fire test rating.
--- UL labeled doors for 60, 120, 180 minutes.
--- Core option: Honeycomb kraft core, steel stiffened, Polyurethane core.
--- Clear vision panel for up to 180 minutes.
--- Factory prepared to receive all hardware.
--- Available in single & double doors. Size: Single 4'0" x 8'0"; double 8'0" x 8'0"
--- Available in primed, paint and wood grain finish.
--- RCR provides full set of UL listed hardware.
--- Every assembly configuration such as transom panel, louver, vision panel, frame material, thickness of metal, leaf construction, core type, door set type (single, double or double egress), etc., is covered by the UL certified.
--- Hardware reinforcements features
a. 11 Ga. for hinge
b. 12 Ga. for door closer and door holder
c. 16 Ga. for lock / panic push bar

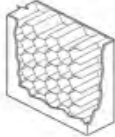


# HOLLOW METAL DOOR CORE CONFIGURATIONS

## 5 CORE TYPES FOR HOLLOW METAL DOORS

Hollow metal doors are made of a variety of components. One of the most important parts is the core material. Here are 5 of the standard core types used in hollow metal doors:

### 1 Honeycomb



Honeycomb cores get their name from the honeycomb shaped cardboard that is hardened by special resins. This material is the most commonly used at interior openings and is a heavy-duty, durable core. It can be fire rated up to 3 hours. The insulation value is lower than a foam core but it can be used at exterior openings if a cost effective solution is desired.

### 2 Polystyrene



The first level of insulated door core is the polystyrene which is a slab of foam that is placed in the core of the door. Hollow metal doors with this core type are most often used at exterior opening and can be fire rated up to 3 hours. The insulation value is much higher than the honeycomb but lower than the Polyurethane.

### 3 Polyurethane



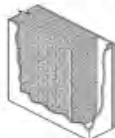
This insulated core is a foam that is injected into the core and expands to fill all the available space within the cavity of the hollow metal door. Polyurethane will have the best insulation value that is higher than both honeycomb and Polystyrene. However, a Polyurethane door can not be fire rated.

### 4 Steel Stiffened



Steel stiffened hollow metal doors have steel channels that run the full height of the door and are spaced about 6" O.C. across the width of the door. They are spot welded to the faces and the gaps between the channels are filled with insulation. These doors are often specified at high abuse areas or can be used at openings where sound transmission ratings are a concern.

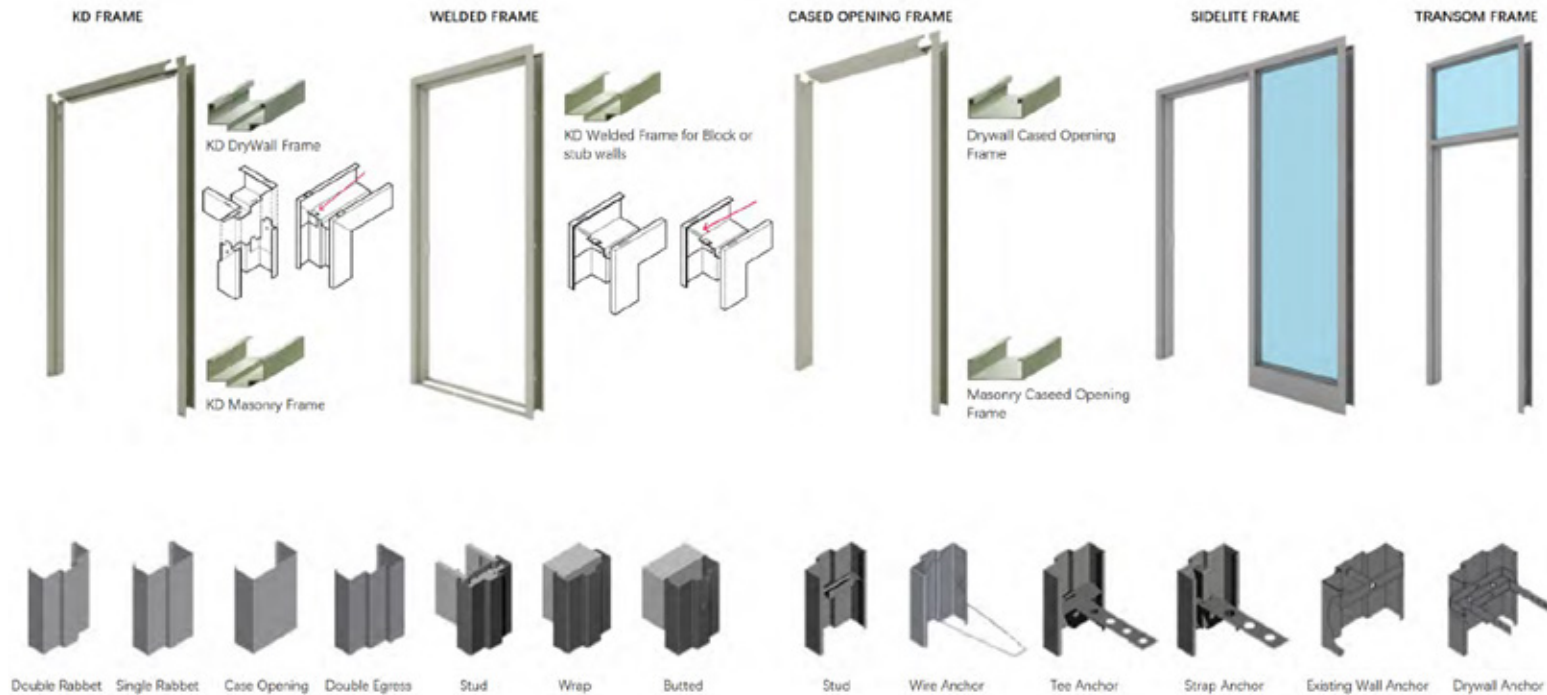
### 5 Mineral core



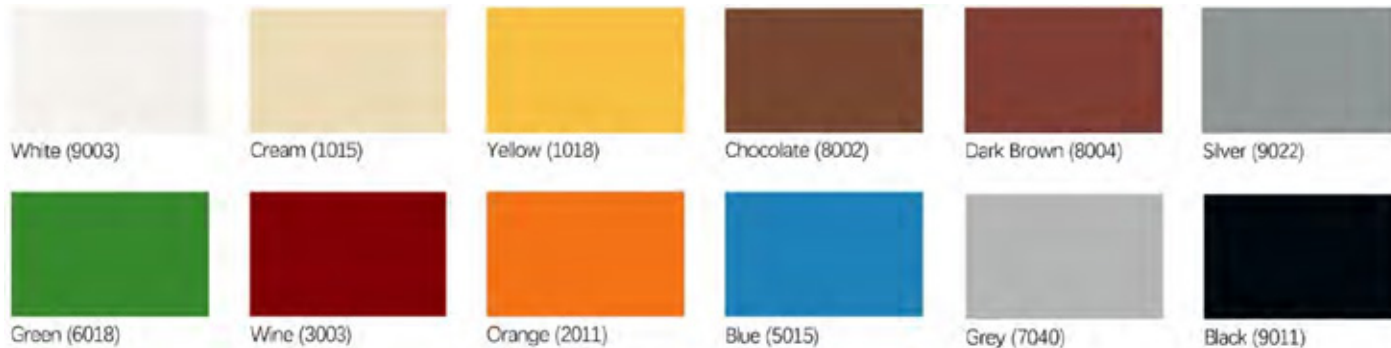
Hollow Metal doors can be specified with a temperature rise rating which will require a sheet of mineral board inserted into the door. This material has properties that reduce the heat that is transferred through the door to the non-fire side of the opening. Temperature rise ratings can be 250, 450 or 650 degrees where the lower rating of 250 performs better than the higher ratings. In the event of a fire, this allows building occupants to pass by the opening unharmed by the heat from the fire.



# HOLLOW METAL DOOR FRAME OPTIONS



# HOLLOW METAL DOOR COLOR OPTIONS



# HOLLOW METAL DOOR TYPES



Commercial Flush Metal Door



Commercial Metal Door w/Glass Kit



Commercial Metal Door w/Louver



Commercial Fire Rated Metal Door



Commercial Flush Double Metal Door



Commercial Double Metal Door w/Glass Kit



Commercial Double Metal Door w/Louver



Commercial Double Fire Rated Metal Door

**Product Info**

18 gauge Galvaneal Metal  
 Available with Glass kits  
 Available with Louver Kits  
 Up to 3HR Fire Rating

**Product Info**

18 gauge Galvaneal Metal  
 Available with Glass kits  
 Available with Louver Kits  
 Up to 3HR Fire Rating  
 Available Glass Sizes:  
 6' x 27", 12' x 12", Half Glass,  
 Full Glass  
 Available Glass Types:  
 Tempered, Wire, Insulated,  
 Pyran Platinum

**Product Info**

18 gauge Galvaneal Metal  
 Available with Glass kits  
 Available with Louver Kits  
 Up to 3HR Fire Rating  
 Available Louver Sizes:  
 12" x 12", 18" x 12", 24" x 12",  
 24" x 18", 24" x 24", Full Louver

**Product Info**

18 gauge Galvaneal Metal  
 Available with Glass kits  
 Available with Louver Kits  
 Up to 3HR Fire Rating  
 Available Fire Ratings:  
 20 min, 45 min, 60 min, 90 min,  
 3 Hour





# HOLLOW METAL DOOR PANE TYPES

## COMMON FLUSH SINGLE HOLLOW METAL DOOR CONFIGURATIONS



Active Door w/ Lock



Active w/ Rim Exit Devices



Active w/ Push/Pull Hardware

## COMMON FLUSH DOUBLE HOLLOW METAL DOOR CONFIGURATIONS



Active Door w/ Lock + Inactive w/ Flush Bolts and Lock Strike



Active Door w/ Rim Exit Device + Inactive w/ Flush Bolts and Overlapping Strike



Both Doors Active w/ Push/Pull Hardware



Both Doors Active w/ Rim Exit Devices and Removable Mullion



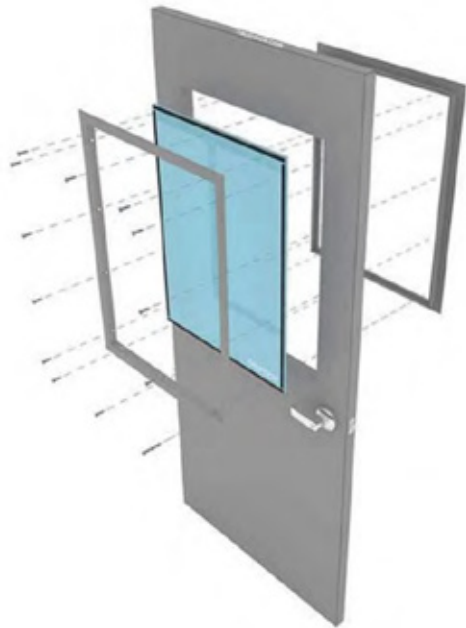
Both Doors Active w/ Surface Vertical Rod Exit Devices



Both Doors Active w/ Surface Vertical Rod Exit Devices (Less Bottom Rod)



# HOLLOW METAL DOOR w./ GLASS KIT



12 x 12



6 x 27



Half Glass



Full Glass



12" x 12"



5" x 35"



6" x 27"



7" x 22"



8" x 32"



LNL - Long Narrow Lite



24" x 24"



HG - Half Glass



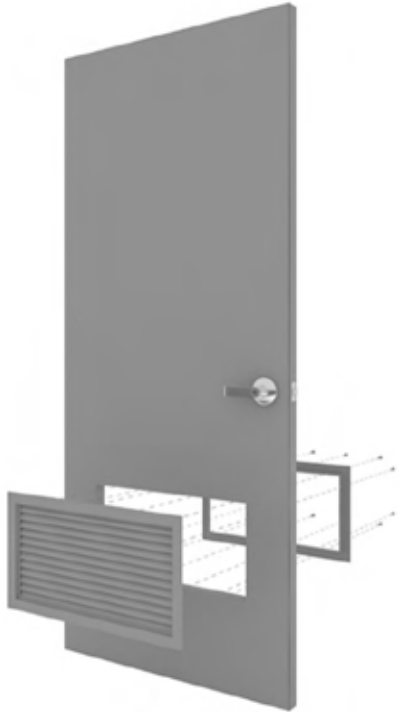
FG - Full Glass



FG2 - Full Glass 2 (2 Lites w/  
Integral Rail)



# HOLLOW METAL DOOR w./ LOUVRE



12 x 12



12 x 18



12 x 24



18 x 18



18 x 24



24 x 18



24 x 24



60 x 24





# COMMERCIAL TIMBER DOOR

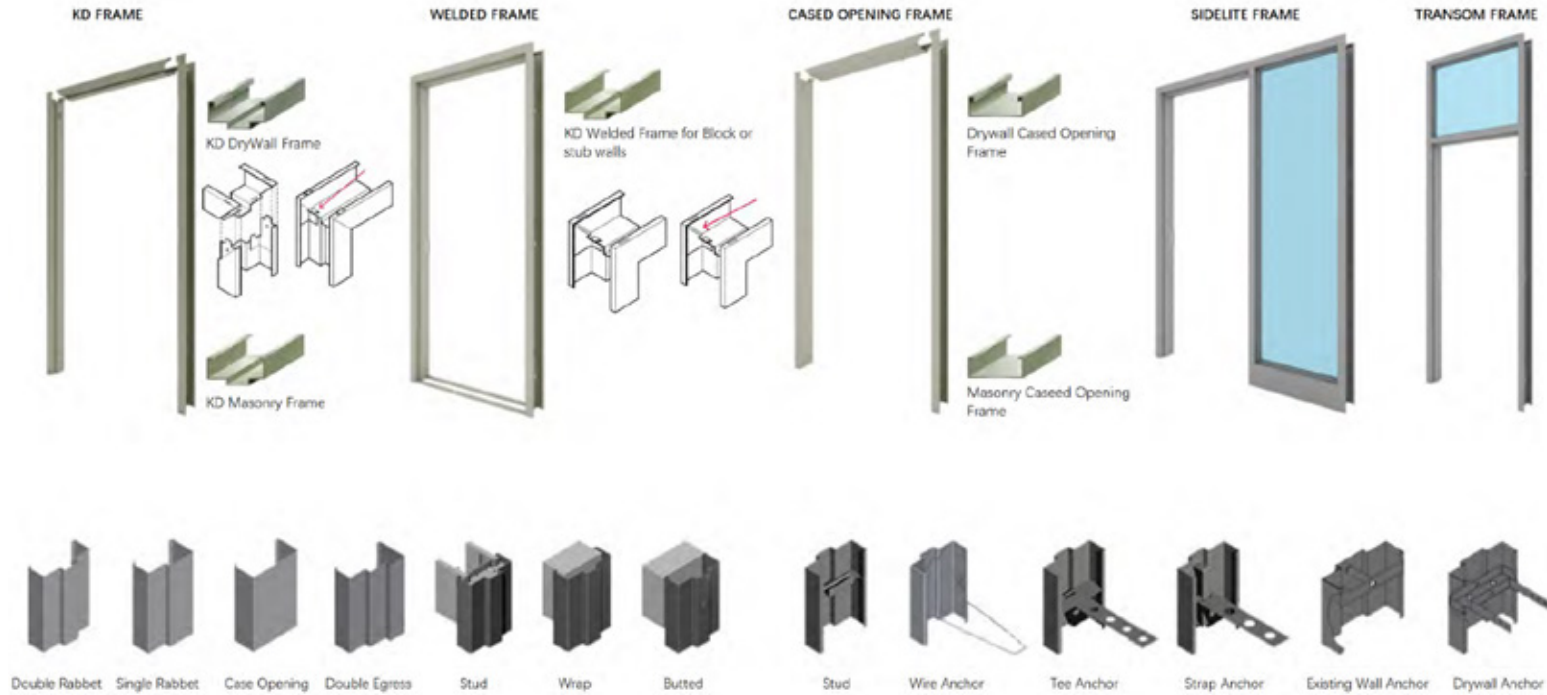
## Product Description

### Timber Fire Door:

Product Name	Solid timber wooden fire door
Standard	UL 10(b), UL 10(c), UBC 7-2, NFPA, ASTM,BS476 Part:22,
Infill Material	Fire core, solid timber,
Fire rated time	20,45,90 minutes
Size	Any size,customized
Door leaf sheet	Solid door with various wood veneered,solid moulded decoration
Door frame	Metal frame or Solid one piece wood frame without joint finger
Surface finish	PU painting finished
Frame depth	100mm - 240mm
Opening	Swing, Inward/Outward
Color	Any nature wood color or customized
Accessories	Lock,handle,hinges,door stopper, and other as requested.
Vision Panel	With or without as requested.
Louver	With or without as requested.
Feature	Fire proof, water proof, thermal function
Application	Suitable for building project, business, home decoration(Office, hotel, church, home and so on.)
Package	Inside with PE paper, outside is double layers carton box, then wooden pallets packaged.



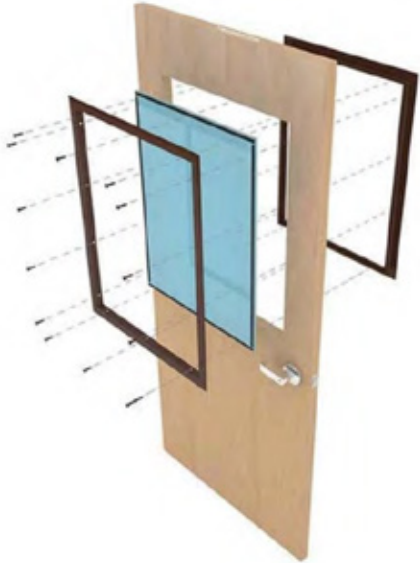
# TIMBER DOOR FRAME OPTIONS



# TIMBER DOOR COLOR OPTIONS



# TIMBER DOOR PANE w./GLASS KIT



12 x 12



6 x 27



Half Glass



Full Glass



12" x 12"



5" x 35"



6" x 27"



7" x 22"



8" x 32"



LNL - Long Narrow Lite



24" x 24"



HG - Half Glass



FG - Full Glass



FG2 - Full Glass 2 (2 Lites w/ Integral Rail)



# TIMBER DOOR PANE w./LOUVRE



12 x 12



18 x 12



24 x 12



18 x 18



24 x 18



18 x 24



24 x 24



24 x 60



# HARDWARES / ACCESSORIES (OPTIONAL)



Exit Devices / Panic Bars



Locks



Door Closers



Door Stops and Holders



Magnetic Locks and Holders



Automatic Door Operators



Cylinders & Keys



Push-Pull Hardware



Protection Plates and Kickplates



Flush Bolts and Coordinators



Electric Strikes



Thresholds, Weatherstrip, and Seals



Hinges



Vision Lite Kits & Glazing



Louvers

