

FD-N100 Standard Size 1000mm(W) x 2100mm(H)



GD-N101 Standard Size 1000mm(W) x 2100mm(H)



LV-N100 Standard Size 1000mm(W) x 2100mm(H)



GD-N102 Standard Size 1000mm(W) x 2100mm(H)



GD-N100 Standard Size 1000mm(W) x 2100mm(H)



GD-N105 Standard Size 1000mm(W) x 2100mm(H)

# **Fire Labeled Steel Doors**

## :: Doors

Dongbang Novoferm's fire labeled steel doors are 1 3/4"(45mm) in thickness and are available in 1.6mm or 1.2mm steel sheets. Door skins are mechanically interlocked vertically along the hinge and lock edge. Door edges are bevelled 1/8"(3mm) in 2"(50mm) and door surfaces are flush, welds or seams. All standard doors are manufactured from galvannealed steel and are prepared and reinforced to receive spcified architectural hardware in accordance to ANSI A115 Standards.

#### Fire Labels:

Dongbang Novoferm's fire labeled steel doors are approved by both Underwriters Laboratories (UL) and Warrington fire research(BS) Fire Labelling Programs. Fire labeled steel doors must be installed with an equivalent fire labeled frame with approved fire listed hardware. For fire labelling restrictions and limitations refer to the Fire Labelling Guide for Steel Door.

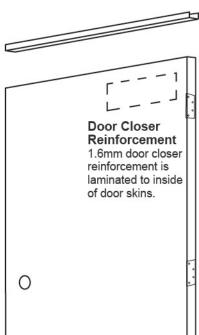


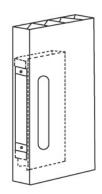




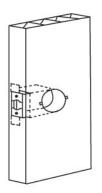


 2mm inverted end channel is spot welded to door skins and tack welded at each corner of the door for extra rigidity.

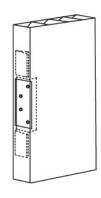




Mortise Lock Prep Government Series 86 edge door prep is reinforcement with a 1.6mm reinforcement box to help hold mortise lock in its proper position in accordance to ANSI A115.1 requirements. 2-3/4" (70mm) backset



Cylindrical Lock Prep Government Series 161 Cylindrical Lockset door prep is equipped with 1.6mm reinforcement and an added barrel support spot welded to the edge of the door in accordance to ANSI A115.2 requirements. 2-3/4"(70mm) backset

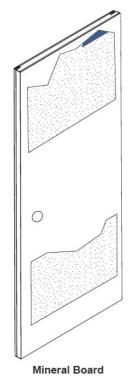


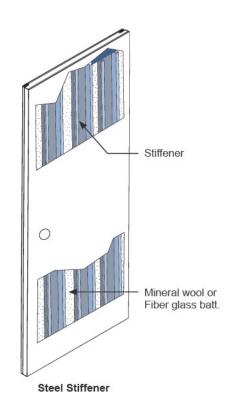
Hinge Reinforcement 3.5mm high frequency hinge reinforcement with return bend for added strength.

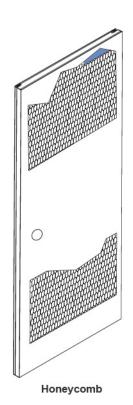
#### **Bottom Channel**

1.2mm inverted end channel is spot welded to door skins and tack welded at each corner of the door for extra rigidity.

### Cores







# Fire Labelling Guide for Steel Doors

Label)



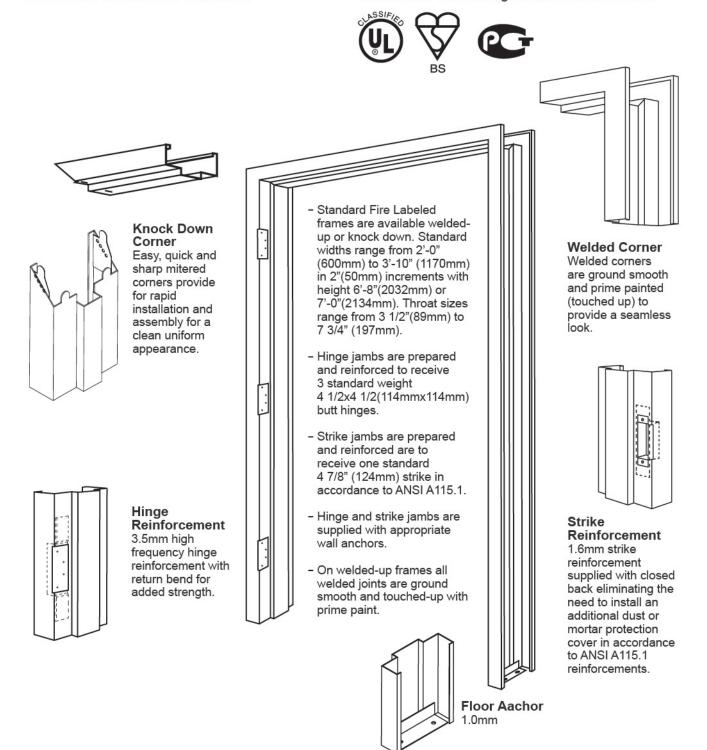
		100	(UL Label)	NO. INCH	
Туре	Elevation	Min. THK.	Max. Nominal Door Sizes	Available Rating	Notes
Flush		1.2mm	48" X 115" (1214mm X 2910mm) Single	1 1/2hr	
			96" X 115" (2432mm X 2910mm) Double		
Flush		1.2mm	42" X 95" (1070mm X 2414mm) Single	2hr	
			84" X 95" (2140mm X 2414mm) Double		
Flush		1.2mm	46" X 93" (1165mm X 2350mm) Single	3hr	
			92" X 93" (2330mm X 2350mm) Double		
Glass Lights		1.6mm	48" X 115" (1214mm X 2910mm) Single	1 1/2hr	Glass area 600mm X 600mm
			96" X 115" (2428mm X 2910mm) Double		
	1.0mm	48" X 91" (1214mm X 2310mm) Single	1 1/2hr	Glass area 600mm X 600mm	
		1.0111111	96" X 91" (2428mm X 2310mm) Double		300mm X 1000mm

# **Frames**

Dongbang Novoferm's manufactures full range of a Fire Labeled Steel Frames of standard sizes and profiles to custom sizes and profiles. Steel frames are available in 1.6mm for 1 3/4"(45mm) doors. All standard frames are manufactured from galvannealed steel and are prepared and reinforce to receive specified architectural hardware in accordance to ANSI A115 Standards.

#### Fire Labels:

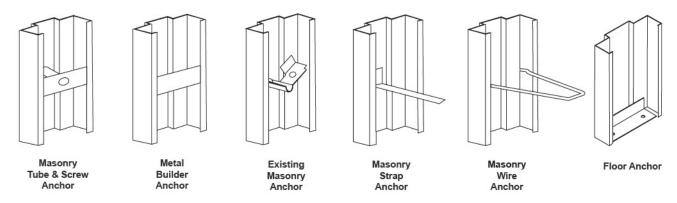
Dongbang Novoferm's fire labeled steel frames are approved by both Underwriters Laboratories (UL) and Warrington Fire Research(BS) Fire Labelling Programs. Fire Labeled steel frames must be installed with an equivalent fire labeled door with approved fire listed hardware. For fire labelling restrictions and limitations refer to the Fire Labelling Guide for Steel Frames.



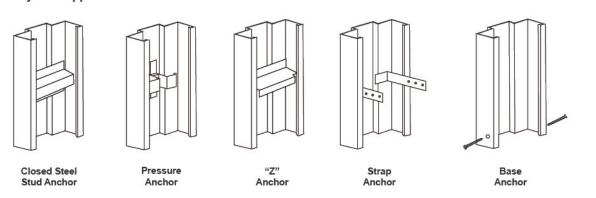
# **Fire Labeled Steel Doors**

#### Anchors

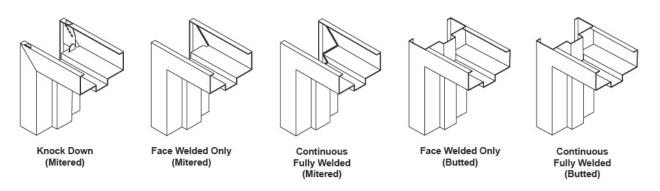
#### Masonry Wall Applications



#### Dry Wall Applications



#### Corner Details



# Fire Labelling Guide for Steel Frames

			(OL Label) LISTED TO-THYSOT 200				
Туре	Elevation	Min. THK.	Max. Nominal Frame Sizes	Available Rating	Notes		
Basic Frames		1.2mm	52" X 118" (1321mm X 3000mm) Single 100" X 118" (2538mm X 3000mm) Double	2 hr 1 1/2 hr 3/4hr	For Drywall or Masonry Openings. Available Knock Down or Welded Up.		

0063-1-1-80902

FIRE DOOR FRAME

# Certificate



#### O UL

- 1. Door & Window Frames, File No. R10522
- 2. Pair & Single Swing Hollow-Metal Type Swing Fire Door, 1 1/2hr File No. R18674
- 3. Pair & Single Swing Hollow-Metal Type Swing Fire Door, 2hr File No. R18674
- 4. Pair & Single Swing Hollow-Metal Type Swing Fire Door, 3hr File No. R18674
- Pair & Single Swing Hollow-Metal Type Swing Fire Door, UL Canada Certificate No.051110-R19674, Report Reference No. R18674



# CONSULTANGY-TESTIN

#### BS (Warrington Fire Research consultance Testing)

- Fire Resistance Test in Accordance with BS 476: Part 22: 1987, Clause 8 on Two Single-Acting, Single-Leaf Steel Doorsets, 2hr, WARRES No. C68110
- 2. Fire Resistance Test in Accordance with BS 476: Part 22: 1987, Clause 8 on a Single-Acting, Double-Leaf Steel Doorsets, 1 1/2hr, WARRES No. C68109



#### O ANSI 250.4

Hollow-Metal Door & Fire Door Frame, No. AU10074031-1 Twist Test / Cycle Test - 1,000,000 Cycles



#### GOST (Russia)

- 1. Single Swing Hollow-Metal Type Swing Fire Door, 1hr, No.001.B05914
- 2. Pair Swing Hollow-Metal Type Swing Fire Door, 1hr, No.001.B05915



#### Middle East

- 1. Fire Rated Steel Door, No.9/2006 (Kuwait Governmental authorization)
- 2. Swing Type Fire Door, No. PS-21124-PA (Qatar Governmental authorization)



#### KS (Korean Standard)

KS F 3109 Door Sets, No. 99-0856 Fire Resistance Test in Accordance with KS F 2268-1, 1hr, 2hr

**ISO 9001** 

#### O ISO 9001

ISO 9001, No.QSC80914