

GENERAL NOTES:

1. All doors shall be prepared for swinging, closing and latching hardware. Generally types include:

Swinging:

- Butt hinges per NFPA 80
- UL Listed continuous hinges
- UL Listed pivots or pivot sets (single acting)

Closing:

- Surface closers
- Concealed closers
- Track type closers
- Mortise (indoor) closers
- UL Listed spring hinges (single acting)
- UL Listed floor closers (single acting)

Latching:

- UL Listed single point latches (mortise, cylindrical, unit, hospital)
- UL Listed mortise or rim fire exit devices (single doors)
- UL Listed rim fire exit devices with mullion (double doors)
- UL Listed mortise x vertical rod fire exit devices (double doors)
- UL Listed vertical rod fire exit devices (2) (double doors)
- UL Listed auxiliary-supplemental lock with primary latching
- UL Listed flush or surface bolts (inactive doors)

2. All doors have been tested or evaluated for compliance with UL-10C (positive pressure) or UL-10B (neutral pressure) or NFPA-252.

3. All doors may bear smoke control marking (S-Labels) validated by installation (at jobsite) of listed gaskets.

4. All doors 1 3/4" thick unless noted.

5. Louvers cannot be used in doors rated over 1 1/2 hours or in doors having glazing, temperature rise rating or fire exit hardware. Where permitted, louvers cannot exceed 24" in width or height.

6. See page XX for glazing dimensions, rating, material, etc.

7. Chart is intended for reference only. Changes will frequently occur increasing capability or data noted.

U.L. FIRE RATED COMPOSITE DOORS

MAX RATING	SINGLE	DOUBLE	MAX SIZE EACH DOOR LEAF	GAUGE				CORE				ASTRAGAL			LATCHING				LOUVER	GLAZING	250° TEMP RISE		
				20	18	16	14	POLYSTYRENE	HONEYCOMB	STEEL STIFFENED	TEMP RISE CORE BOARD	FULL FLUSH	SEAMLESS	REQUIRED	OPTION	N/A	SINGLE POINT	RIM FEH				MORT FEH	V-ROD FEH (2)
3	*	*	4'-0" x 8'-0"	*	*	*	*					*					*	*	*	*			*
3	*	*	4'-0" x 7'-2"	*	*	*	*					*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*	*					*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 7'-2"	*	*	*	*					*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*	*		*			*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 10'-0"	*	*	*	*		*			*			*		*	*	*	*			*
3	*	*	4'-0" x 10'-0"	*	*	*	*		*			*			*		*	*	*	*			*
3	*	*	4'-0" x 8'-0"	*	*	*	*		*			*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*	*		*			*			*		*	*	*	*			*
1 1/2	*	*	4'-0" x 7'-2"	*	*	*	*		*			*			*		*	*	*	*			*
3	*	*	4'-0" x 8'-0"	*	*	*	*		*			*		*		*	*	*	*	*			*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*	*		*			*			*		*	*	*	*			*

U.L. FIRE RATED STEEL STIFFENED DOORS

L-28 MAR 2014

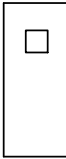
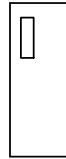
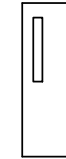

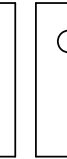
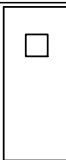
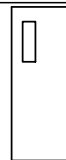
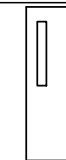


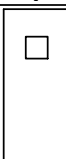
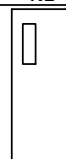
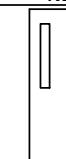
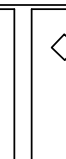
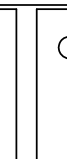
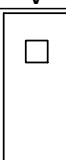
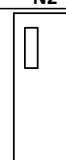
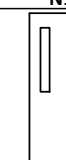
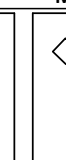

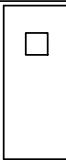
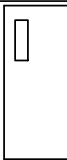

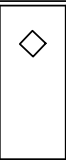
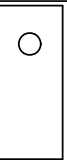
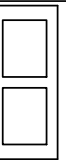

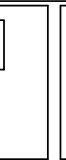



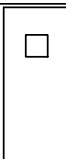
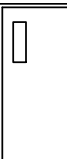


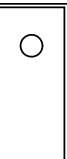






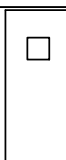

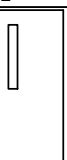
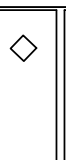
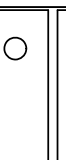



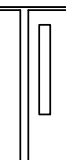
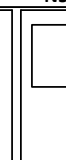


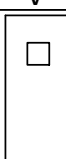
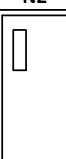
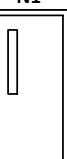
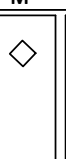
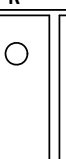


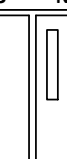
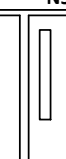



MAX RATING	SINGLE	DOUBLE	MAX SIZE EACH DOOR LEAF	GAUGE				CORE				ASTRAGAL			LATCHING				LOUVER	GLAZING	250° TEMP RISE									
				20	18	16	14	POLYSTYRENE	HONEYCOMB	STEEL STIFFENED	TEMP RISE CORE BOARD	FULL FLUSH	SEAMLESS	REQUIRED	OPTION	N/A	SINGLE POINT	RIM FEH				MORT FEH	V-ROD FEH (2)	MORT x VR-FEH						
3		•	4'-0" x 8'-0"			•					•				•															
1-1/2		•	4'-0" x 8'-0"			•					•				•															
20 MIN	•	•	4'-0" x 9'-0"			•					•				•															
1-1/2	•	•	3'-8" x 7'-2"			•					•				•															

GLAZING IN UL FIRE DOORS

RATING

GLAZING

DOOR STYLES (EXAMPLES ONLY)

ALL WITH 250° TEMP RISE	100 SQ. IN PER DOOR	 V	 N2	 N1	 M	 R							
3 HOUR	100 SQ. IN FIRE LITE	 V	 N2	 N1	 M	 R							
1 1/2 HOUR	100 SQ. IN	 V	 N2	 N1	 M	 R							
1 HOUR	100 SQ. IN	 V	 N2	 N1	 M	 R							
1 - 1 1/2 HOUR	PILKINGTON WIRE WITH FG 3000. 522 SQ. IN. EACH UP TO 4 LITE. 12" X 46" MAX.	 V	 N2	 N1	 M	 R	 G2	 G3	 N3	 N4	 N5	 G	
3/4 HOUR	1,296 SQ. IN. PER LITE. 54" MAX WIDTH OR HEIGHT.	 V	 N2	 N1	 M	 R	 G2	 G3	 N3	 N4	 N5	 G	
3/4 - 1/3 HOUR (20 MIN)	PILKINGTON WIRE WITH FG 3000. 2856 SQ. IN. PER LITE. 34" WIDE OR 84" HIGH	 V	 N2	 N1	 M	 R	 G2	 G3	 N3	 N4	 N5	 G	 FG
20 MIN	ANY GLAZING. 3,289 SQ. IN. PER LITE. MAX 35 3/4" WIDE OR 92" HIGH.	 V	 N2	 N1	 M	 R	 G2	 G3	 N3	 N4	 N5	 G	 FG

1. DOOR STYLE F IS PERMITTED FOR ALL HOURLY RATINGS.
2. STOP HEIGHT 5/8" UP TO 100 SQ. IN. EXPOSED OR WHERE LISTED GLASS IS USED IN COMBINATION WITH LISTED COMBINATIONS.

