



# RAY-BAR GUIDE TO WALLS, DOOR AND WINDOW RATINGS FIRE RATINGS AND GLASS LABEL MARKINGS



**IT IS THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY AND CONFIRM FIRE RATING REQUIREMENTS PRIOR TO ORDERING**

## INTERNATIONAL BUILDING CODE TABLE 716.5

### OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS

TYPE OF WALL ASSEMBLY	WALL RATING	MINIMUM DOOR RATING	DOOR GLASS MARK	WINDOW GLASS MARK
FIRE WALL / FIRE BARRIER	3 HR	180 MIN	D-H-T-180	N/A
FIRE WALL / FIRE BARRIER	2 HR	90 MIN	D-H-90	OH-120 / W-120
FIRE WALL / FIRE BARRIER	1 1/2 HR	90 MIN	D-H-90	OH-90 / W-90
FIRE BARRIER HAVING A 1HR FRR*	1 HR	60 MIN	D-H-60	OH-60 / W-60
OTHER FIRE BARRIER	1 HR	45 MIN	D-H-45	OH-60 / W-60
FIRE PARTITIONS (CORRIDOR WALLS)	1 HR	20 MIN	D-20	OH-60 / W-60
FIRE PARTITIONS (CORRIDOR WALLS)	30 MIN	20 MIN	D-20	OH-30 / W-30
OTHER FIRE PARTITIONS (NON-CORRIDOR WALLS)	1 HR	45 MIN	D-H-45	OH-60 / W-60
OTHER FIRE PARTITIONS (NON-CORRIDOR WALLS)	30 MIN	20 MIN	D-20	OH-30 / W-30
EXTERIOR WALLS	3 HR	90 MIN	D-H-90	OH-180 / W-180
EXTERIOR WALLS	2 HR	90 MIN	D-H-90	OH-120 / W-120
EXTERIOR WALLS	1 HR	45 MIN	D-H-45	OH-60 / W-60
SMOKE BARRIERS	1 HR	20 MIN	D-20	N/A

### FIRE RATED GLASS LABEL AND MARKING DESIGNATIONS

<b>W</b>	MEETS WALL ASSEMBLY CRITERIA: ASTM E -119 OR UL 263
<b>OH</b>	MEETS FIRE WINDOW AND HOSESTREAM: NFPA 257 OR UL 9
<b>D</b>	MEETS DOOR ASSEMBLY CRITERIA: NFPA 252 OR UL 10B OR UL 10C
<b>H</b>	MEETS DOOR ASSEMBLY HOSESTREAM: NFPA 252 OR UL 10B OR UL 10C
<b>T</b>	MEETS 450° F TEMPERATURE RISE FOR 30 MINUTES: NFPA 252 / UL 10B / UL 10C
<b>20 . 45 . 60 . 90 . 120 . 180</b>	TIME IN MINUTES OF FIRE RESISTANCE OR FIRE PROTECTION RATING

- HIGHER FIRE RATED GLASS CAN BE UTILIZED IN LOWER RATED ASSEMBLIES PER IBC 716.3.3
- SEE FIRE RATED GLASS TECHNICAL DATA SHEETS FOR RATINGS AND SIZE LIMITS
- IMPACT RESISTANT SAFETY GLASS REQUIRED IN DOOR VISION FRAMES, AND IN WALL LOCATIONS WITHIN 24" OF DOOR OPENINGS
- FIRE RATED INSULATED GLASS UNITS (IGU) ARE AVAILABLE FOR MEETING LOW-E, STC, X-RAY PROTECTION OR BULLET RESISTANCE.
- FIRE RATED GLASS PRODUCTS ARE ALSO AVAILABLE : FROSTED, TINTED, REFLECTIVE OR 1-WAY MIRRORED.
- FIRE RATED DOOR VISION FRAMES OR HOLLOW METAL WINDOW FRAMES FOR WALLS ARE ALSO AVAILABLE.
- FIRE RATED GLASS: 3/16" FIRELITE • 3/16" FIRELITE-NT • 5/16" FIRELITE+PLUS • 1/4" WIRELITE-NT • 1/4" FIREGLASS 20 • PILKINGTON PYROSTOP.

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