



5 1/2" and 8" S.T.E.P.

FIRE RATED CONSTRUCTION REFERENCE

2010

Fire Rating Flow Chart
IBC 2006/accel-E Fire Rated Construction Chart

Fire Ratings for Construction Types Based Upon IBC-06 Tables 601 and 602

The accel-E S.T.E.P. can be considered in all cases in Table #1 and Table #2 except as noted.

See Architectural Testnig, Inc.'s website for the accel-E Code Compliance Research Report CCRR-0121

http://www.archtest.com/certification/code_compliance_research_reports_ccrr.aspx

Building Element	Building Construction Type							
	1A	1B	2A	2B	3A	3B	5A	5B
Interior Bearing Walls	N/A ^d	N/A ^d	N/A ^d	0	N/A ^d	0	N/A ^d	0
Exterior Bearing Walls ^a	N/A ^d	N/A ^d	1 ^c	0	N/A ^d	N/A ^d	1 ^c	0
Ext. Non-Load Bearing ^b	See Table #2							
Int. Non-Load Bearing ^b	0	0	0	0	0	0	0	0

Notes:

- a. Not less than the fire resistance rating based upon fire separation distance (Table #2)
- b. Not less than the fire resistance rating required by other sections of the IBC.
(ex. Hotel corridor walls, elevator shaft walls)
- c. Only the 8" accel-E panel qualifies as a 1-hour load bearing wall.
- d. N/A denotes that the accel-E wall panels cannot meet the FRR requirements at this time.

Bldg. Const. Type	Fire Separation Distance (ft)	Fire Resistance Rating (FRR)	Allowed Use Groups
1A, 1B, 2A, 2B, 3A, 3B, 5A, 5B	< 5	1 ^b	A, B, E, F2, I, R, S2, U
	< 5	1 ^b	A, B, E, F2, I, R, S2, U
1A	5 < 10	1	A, B, E, F2, I, R, S2, U
1B, 2A, 2B, 3A, 3B, 5A, 5B	5 < 10	1	A, B, E, F2, I, R, S2, U, F1, M, S1
	5 < 10	1	A, B, E, F2, I, R, S2, U, F1, M, S1
1A, 1B	10 < 30	1	A, B, E, F2, I, R, S2, U, F1, M, S1
2B, 5B	10 < 30	1	H
2B, 5B	10 < 30	0	A, B, E, F2, I, R, S2, U, F1, M, S1
2A, 3A, 3B, 5A	10 < 30	1	A, B, E, F2, I, R, S2, U, F1, M, S1, H
1A, 1B, 2A, 2B, 3A, 3B, 5A, 5B	> 30	0	A, B, E, F2, I, R, S2, U, F1, M, S1, H
	> 30	0	A, B, E, F2, I, R, S2, U, F1, M, S1, H

Notes:

- a. Load bearing exterior walls shall also comply with the fire resistance rating requirements in Table #1.
- b. This rating applies to Non-Load Bearing accel-E walls only.

Use Groups	
A =Assembly	M =Mercantile
B =Business	R =Residential
E =Educational	S =Storage
F =Factory and Industrial	U =Utility
I =Institutional	

1-hour Fire Resistance Rating Chart

Reference CCRR-0121 §3.5, §4.3, and Tables 8 and 9 for complete fire resistance rating assembly information and construction requirements.

Determine:

Panel Size Requirement for Project

Determine:

Structural Requirements:

- Load bearing (LB) or
- Non Load Bearing (NLB)

Assembly Requirements:

5/8" Type 'X' Gyp. Board

- (#) Exterior + (#) Interior
- Mineral Wool (As Noted)

