

C A6.1 ONE-HOUR PROTECTED WIDE FLANGE COLUMNS

A6.1 NOT TO SCALE

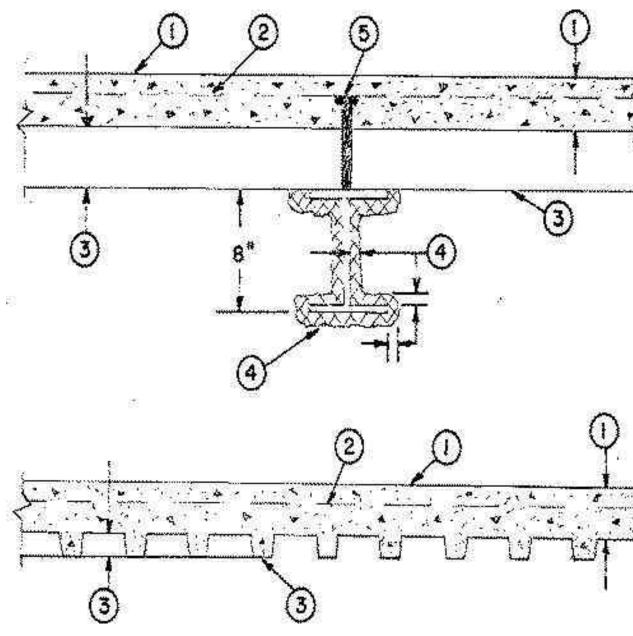
▲ ONE-HOUR PROTECTED TUBE COLUMNS

Design No. D918 April 25, 2002

Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr (See Items 1 and 4)

Unrestrained Assembly Rating — 0 Hr (See Item 3)

Unrestrained Beam Rating — 1 and 1-1/2 Hr (See Item 4)



Beam – W8X20, min size.

1. Normal Weight or Lightweight Concrete – Normal weight concrete carbonate or siliceous aggregate, 153 + or - 3 pcf unit weight, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, clay or slate aggregate by rotary kiln method 110 + or - 3 pcf unit weight, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	_	3-1/2
1-1/2	Normal Weight	_	4
2	Normal Weight	_	4-1/2
3	Normal Weight	_	5-1/4
1	Lightweight	107-113	2-1/2
2	Lightweight	107-113	3-1/4
2	Lightweight	107-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	107-120	4-7/16

2. Welded Wire Fabric — 6 x 6 - W1.4 x W1.4.

3. Steel Floor and Form Units* – Composite 1-1/2, 2 or 3 in. deep galv units. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular. Fluted units may be phos/ptd. The following combinations of units may be used:

(1) All fluted.

(2) A blend of one or more fluted units to one 24 in. wide cellular unit.

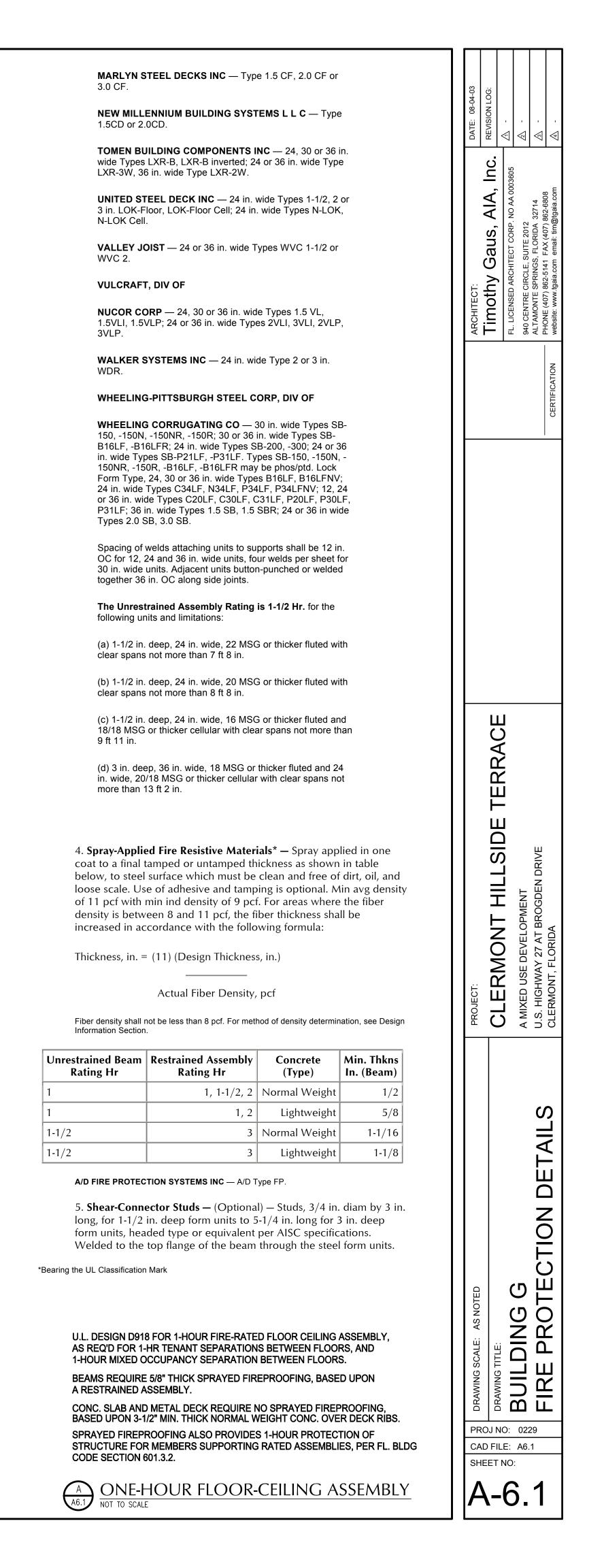
BHP STEEL BUILDING PRODUCTS USA INC - 24 in. wide Types B-24, BF-24, N, NF, 2W24, 2WF24, 3W24, 3WF24; 30 in. wide Types B-30, BF-30; 36 in. wide Types B-36, 2W36, 2WF36, 3WF36; 24 or 30 in. wide Types ASC2 or

CONSOLIDATED SYSTEMS INC — 24 in. wide Type CFD-2 or -3; 24, 30 or 36 in. wide Type CFD-1.5.

DECK WEST INC — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints Type 2-DW and 3-DW may be welded together 60 in. OC. Side ioints Type 2-DW or 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screw 36 in. OC.

GENS METALS INC — 24 in. wide Types LF2, LF3.

H H ROBERTSON – QL Type, 24 in. wide 3 or 3 inverted, UKX, 21 or 21 inverted, 121, NKX, TKX; 36 in. wide 99; 9, 26, or 30 in. wide NKX; 17 in. wide 21; 26 or 28 in. wide UKX. Side joints of 99, 121, and TKX, may be welded together 60 in. OC. Side joints of 99 and TKX may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.



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