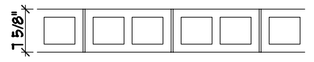
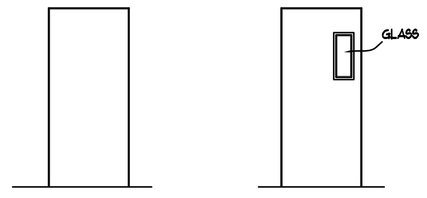
W1
2HR

8" CONC MASONRY UNIT WALL BUILT WITH MIN. 2HR RATED BLOCKS, REINFORCING AND CONC FILLED CORE @ 32" OC ( SEE STR.)




DOOR SCHEDULE

| DOOR # | SIZE: WIDTH x HEIGHT x THICKNESS | DOOR: TYPE | DOOR: MATERIAL | DOOR: FINISH | FRAME: MATERIAL | LABEL | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 3'-0" × 6'-8" × 1 3/4" | 1 | METAL | ALUM. | MTL | 1 1/2 HR | DOOR TO HAVE CLOSER |
| 2 | 3'-0" × 6'-8" × 1 3/4" | 1 | METAL | ALUM. | MTL | 1 1/2 HR | DOOR TO HAVE CLOSER |
| 3 | 3'-0" × 6'-8" × 1 3/4" | 2 | METAL | ALUM. | MTL | 1 1/2 HR | DOOR TO HAVE CLOSER |




1 DOOR TYPE
Scale:1/4" =1'

F1 2HR & R1 2HR

UL D902

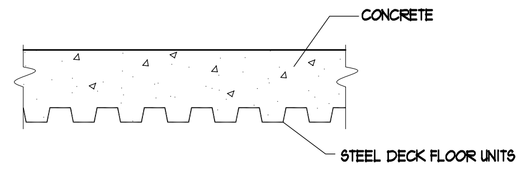
BXUV.D902
Fire Resistance Ratings - ANSI/UL 263

Page Bottom
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263
Design No. D902

June 23, 2006

Restrained Assembly Ratings - 1, 1-1/2, 2 and 3 Hr.
Unrestrained Assembly Ratings - @ 1, 1-1/2, 2 or 3 Hr. (See Items 4 ! 6)
Unrestrained Beam Ratings - 1, 1-1/2, 2 and 3 Hr.
Load Restricted for Canadian Applications - See Guide BXUV1




1. Beam - UC14, WB12B or WB10, min size, see Items 6A through 6E.

1A. Steel Joists 1 (Not shown) 1 As an alternate to Item 1 1 May be either uncoated or provided with a shop coat of paint. Composite or noncomposite, welded or bolted to end supports. Designed per SJI. specifications for a max design stress of 30 ksi.
The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by Ø.27 in. thick. Bottom chords shall consist of two round bars measuring Ø.566 in. in diam. or two angles measuring 1 by 1 by Ø.25 in. thick.
Bearing plates shall consist of two angles measuring 1-1/2 by 2 by Ø.188 in. thick and 5-1/6 in. long. Web members shall consist of Ø.565 in. diam bars. The min depth and weight shall be 8 in. and 4.5 lb/ft, respectively.

1B. Steel Joists 1 (Not shown) 1 As an alternate to Item 1 1 Composite or noncomposite and welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per SJI. specifications for a max design stress of 30,000 psi.
Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by Ø.156 in. thick. Bottom chords shall consist of two round bars measuring Ø.679 in. in diam. or two angles measuring 1 by 1 by Ø.25 in. thick. Bearing plates shall consist of two angles measuring 2 by 2 by Ø.152 in. thick
and shall be min 4-5/16 in long. The second web member at each end shall consist of Ø.654 in. diam round bar. All remaining web members, including the end web members, shall consist of Ø.714 in. diam round bars. Bridging per SJI. specifications is required when noncomposite joists are used.

1C. Steel Joists 1 (Not shown) 1 As an alternate to Item 1 1 Composite or noncomposite, welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per SJI. specifications for a max design stress of 30,000 psi.
Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by Ø.156 in. thick. Bottom chord shall consist of two round bars measuring Ø.679 in. in diam. or two rangles measuring 1 by 1 by Ø.25 in. thick. The second web member at each end shall consist of Ø.654 in. diam round bar.
All remaining web members, including the end web members, shall consist of Ø.714 in. diam round bars. Bridging per SJI. specifications is required when noncomposite joists are used.

1D. Steel Joists 1 (Not shown) 1 As an alternate to Item 1 1 May be either uncoated or provided with a shop coat of paint. Composite or noncomposite. Welded or bolted to end supports. Designed per SJI. specifications for a max design stress of 30 ksi.
The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by Ø.27 in. thick. Bottom chords shall consist of two round bars measuring Ø.566 in. in diam. or two angles measuring 1 by 1 by Ø.25 in. thick. Bearing plates shall conform to SJI. specifications . Web members shall consist of Ø.565 in. diam bars. The min depth and weight shall be 8 in. and 4.5 lb/ft, respectively.

2. Normal Weight or Lightweight Concrete 1 Normal weight concrete, carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 per cent entrained air.

| Restrained Assembly Rating Hr (Type) | Concrete Unit Weight pcf | Concrete Thick in. |
|---|---|---|
| 1 | Normal Weight 141-153 | 3-1/2 |
| 1-1/2 | Normal Weight 141-153 | 4 |
| 2 | Normal Weight 141-153 | 4-1/2 |
| 3 | Normal Weight 141-153 | 5-1/4 |
| 1 | Lightweight 107-113 | 2-1/2 |
| 1 | Lightweight 107-120 | 2-5/8 |
| 1-1/2 | Lightweight 107-113 | 3 |
| 2 | Lightweight 107-113 | 3-1/4 |
| 2 | Lightweight 107-116 | 3-1/4* |
| 2 | Lightweight 114-120 | 3-1/2 |
| 3 | Lightweight 107-113 | 4-3/16 |
| 3 | Lightweight 114-120 | 4-7/16 |

*With 2 and 3 in. deep steel floor units only.

3. Welded Wire Fabric 1 6x6 10/10 SWG.

3A. Negative Reinforcement 1 (Not Shown) - Optional - For floor spans with concrete cast continuous over the supporting beams. Deformed bars designed to resist the support moments of the concrete slab in accordance with the latest ACI Building Code Specifications.

4. Steel Floor and Form Units* 1 Composite 1-1/2, 1-5/8 , 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units. Fluted units may be phos/ptd. Min gauges are 22 MSG for fluted and 20/20 for cellular and partial cellular units. The following combinations of units may be used:

(1) All 24, 26, 28 or 36 in. wide cellular or partial cellular.

(2) All fluted.

(3) One or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular alternating with 3 in. deep fluted or other cellular.

(4)Any blend of fluted and 24, 26, 28 or 36 in. wide cellular or partial cellular.

(5)Corrugated, non 1-5/16 or 2 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC but less than or equal to 12 in. OC steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES

NC 1 24 in. wide Types 2UI24, 2UP24, 3UI24, 3UP24, B, BF-24, BR, BM3D, BM9D, N, NF1 30 in. wide Type B-30, BF-30, BR1 36 in. wide Types 2U36, 3UF36, 3U36, 3UF36, B-36 1 24 or 30 in. wide Types ASC2, ASC3.

CANAM STEEL CORP 1 24 in. wide Type FF-2432 composite or 36 in. wide Type FF-3623 composite.

CONSOLIDATED SYSTEMS INC 1 24 in. wide Types CFD-2, CFD-3 1 24, 30 or 36 in. wide Type CFD-1.5 1 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3 1 24 in. wide Types B3C, B2FC, NC, NFC1 30 in. wide, Type B3C1 12 in. wide Mac-Way Cellular 45 MTW, 2-633 MTWA, 3-633 MTWA+ 30 in. wide, Mac-Cor Types 1 and 2

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

EPIC METALS CORP 1 24 in. wide Types ECB2, ECB2 inverted, EC36N, EC366, ECP150, ECP300, ECP366, Epicore A, 2.0 EC41 30 in. wide Types ECB150, ECBR150 1 36 in. wide Types EC36, EC266, ECP366.

GENS METALS INC 1 12 or 24 in. wide Types LF2, LF3.

CHIA TEH CONSTRUCTION MATERIAL CO LTD 1 24 or 36 in. wide Mac-Lok 3 1 24 in. wide CFD-3.

MARLYN STEEL DECKS INC 1 Type 1.5 CF, 2.0 CF or 3.0 CF.

FLYNN CANADA LTD 1 24 in. wide, Types T-150, -150F.

H H ROBERTSON 1 GL, Types, 24 in. wide, 3 or 3 inverted, UKX, 21 or 21 inverted, 2 in. 99, 121, AKX, NKX, TKX1 24 or 30 in. wide GKX, GKXH, GKX-A1 36 in. wide 2 in. 99, AKX, UKX1 12 in. wide NKC, TKC1 12 in. wide non-composite Sec 12. Side joints of 99, 121, TKC, TKX, UKX may be welded together 60 in. OC. Side joints of 99, AKX, UKX, GKX, GKX-A, TKX may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

NEW MILLENNIUM BUILDING SYSTEMS L L C 1 Type 15CD, 20CD, or 30CD

ROOF DECK INC 1 36 in. wide Types LOK-1-1/2, LOK-1-1/2Rt 24 in. wide Types LOK-2, LOK-3.

MORIN CORP 1 24, 30 or 36 in. wide Types LXR-B, LXR-B Inverted1 24 or 36 in. wide Type LXR-3UI 36 in. wide Type LXR-2U.

UNITED STEEL DECK INC 1 12 or 24 in. wide, Types 1-1/2, 2, or 3 in. LOK-Floor and LOK-Floor Cells 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cells 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cells 24 in. wide, Types N-LOK and N-LOK Cell.

VERCO MFG CO 1 24, 30 or 36 in. wide Types PLB, PLBCD, B, BCD, BXN 24 or 36 in. wide Types PLW2, PLW2CD, W2, W2CD, PLW3, PLW3CD, W3, W3CD1 24 in. wide Types PLN, PLNCD, N, NCD , 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or 36 in. wide PLW2, W2, PLW3 or W3 units, respectively. Fluted units may be phos/ptd.

VALLEY JOIST 1 24 or 36 in. wide Types UVC 1-1/2 or UVC 2.

VULCRAFT, DIV OF NUCOR CORP 1 24, 30 or 36 in. wide, Type 1.5 VL, 1.5VL1, 1.5VLP1 24 or 36 in. wide, Types 2VL1, 3VL1, 2VLP, 3VLP.

WIREMOLD CO 1 24 in. wide, Types 2 or 3 in. LDR.

WHEELING-PITTSBURGH STEEL CORP, DIV

OF WHEELING CORRUGATING CO 1 30 in. wide Types 6B-B16LF, -15D, -15DN, -15DNR, -15DR1 24 in. wide Type 6B-20D, -30D, 6B-B16LF, -N35LF, -P21LF, -P31LF or -P35LP1 12 in. wide Type 6B-P21LF or 6B-P31LF1 36 in. wide Types 6B-B16LF, -P21LF, -P31LF, Lock Form Type, 24, 30 or 36 in. wide Types B16LF, B16LPNV1 24 in. wide Types P34LF, P34LPNV1 12, 24 or 36 in. wide
Types C12LF, C21LF, C31LF, P12LF, P21LF, P31LF, P35LP1 24 or 36 in. wide Types 2.0 6B, 3.0 6B1 Units may be phos/ptd. 30 in. wide Types 1-1/2 in. V-Grip, 1-1/2 in. RIV-Grip1 24 or 36 in. wide Types 2DV-Grip, 3DV-Grip1 36 in. wide Types 2DVGS-Ultraslug, 3DVGS-Ultraslug

Components for field-assembled cellular metal raceway units:

Raceway bottom 1 24 or 36 in. wide Types 2DV6, 3DV6 .

Raceway cover plate 1 Types CP-12, CP-16.

Raceway divider 1 Types DC-20, DC-25.

Raceway isolation trough 1 Types T-20, T-25, T-30.

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, 36 in. wide units, four welds per sheet for 30 in. wide units. 6 in. OC for 18 in. wide and Sec. 12 units. Unless specified otherwise for specific units types, adjacent units button-punched or welded together 36 in. OC along side joints. For 3 Hr Rating, units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

*2 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B3C or 30 in wide B3C units in a blend of one cell to one or more fluted units. 12 in. wide, 2 in. deep Mac-Way units may be blended with 24 or 36 in. wide Mac-Lock units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. deep Mac-Way units may be blended with 24 or 36 in. wide Mac-Lock 3 units in a blend of one cell to one or more fluted units. The side edge of the fluted units is placed on the top of the side edge of the Mac-Way unit and the two are welded together with welding washers spaced a max. of 32 in. OC for Mac-Lock 2 or 3 units and a max of 24 in. OC for the B2C or B3C units.

Alternate Construction 1 Noncomposite units of the same type listed above may be used provided allowable loading is calculated on the basis of noncomposite design.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) for a max 3 Hr and is limited to the following units and limitations:

(a) 1-1/2, 2 and 3 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft, 8 in.

(b) 1-1/2, 2 and 3 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft, 8 in.

(c) 1-1/2 and 2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft, 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft, 2 in.

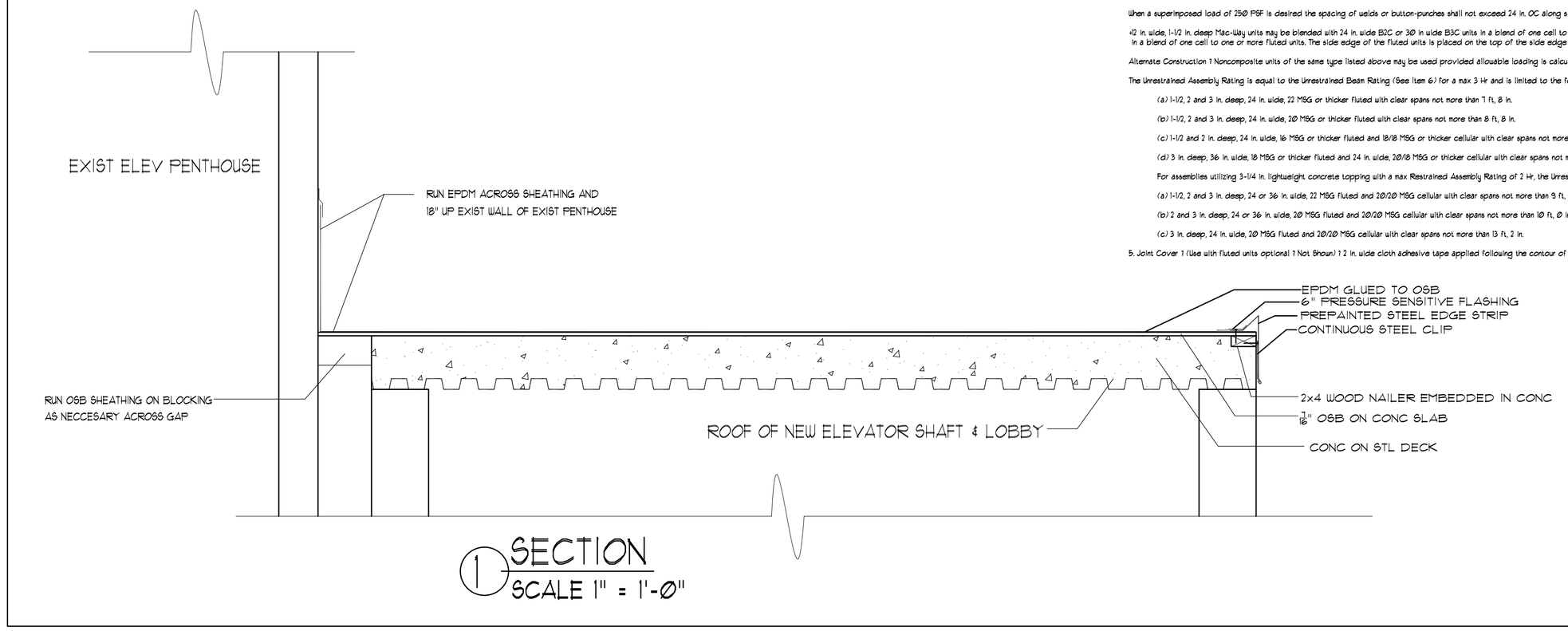
For assemblies utilizing 3-1/4 in. lightweight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) and is limited to the following floor units and spans:

(a) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 22 MSG fluted and 20/20 MSG cellular with clear spans not more than 9 ft, 6 in.

(b) 2 and 3 in. deep, 24 or 36 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 10 ft, 0 in.

(c) 3 in. deep, 24 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 13 ft, 2 in.

9. Joint Cover 1 (Use with fluted units optional 1 Not Shown) 1 2 in. wide cloth adhesive tape applied following the contour of the units.




1 SECTION
SCALE 1" = 1'-0"


OWNER:

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ARCHITECTS
48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056


Project:
BURNHAM ARMS
CONGRESS STREET
PORTLAND, MAINE

Scale AS NOTED

Date AUGUST 21, 2006

Revisions:

DETAILS AND
WALL & FLOOR TYPES
DOOR SCHEDULE

A3