



Beam -- (Not shown) -- WBX13 min size. As alternate to steel beam, Joist girders (Not shown)-20 in. min depth and 13 lb/lin ft min weight.

I. Roof Covering' -- Consisting of hot mopped or cold application materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials(TEVT).

A. In lieu of Item I, roof covering Consisting of single-ply Roofing Membrane: -- that is either ballasted, adhered or mechanically attached as permitted under the respective Classified company's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).

B. Metal Roof Deck Panels' -- (Not shown) -- In addition to or in lieu of Items I or IA, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory-Metal Roof Deck Panels' (CETW).

2. Roof Insulation -- Mineral and Fiber Boards' -- 24 by 48 in. to 48 by 96 in., to be applied in one or more layers. Boards to be installed perpendicular to gypsum board (Item 4) direction with end joints staggered 2 ft in adjacent rows. When applied in more than one layer, each layer of board to be offset in both directions from layer below a min of 12 in. in order to lap all joints. Min thickness. I in. (No limit on max overall thickness).

When only one layer is used it must be bonded to gypsum board (Item 4) or vapor barrier with achesive. When two or more layers are used the insulation may be fastened to steel roof deck (through gypsum board) with mechanical fasteners provided at least one layer of insulation is used over the mechanical fasteners. The individual layers may be bonded together with achesive or hot asphali

ERIALS CORP -- Rigid mineral fiber boards.

ORNING HT INC, DIV OF OWENS

-- Rigid glass fiber boards.

INC -- Rigid glass fiber boards.

ypes Hy-Therm AP, Hy-Therm Tapered. ICTS CO, DIV ICTS L L C -- "180 95.FK", "180 95.GL", "180 95

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jh 2F, extruded polystyrene foamed plastic brane\* (Item IA). Min thickness is 2 in. Max with crushed stone on concrete pavers at a plastic for I hr. ratings only). Extruded ne or more layers over gypsum board (Item 4). The foamed plastic. Min thickness is I in. when a min 1/2 in. Ited on top of the foamed plastic. Min thickness ed. No limit on max thickness. All joints

units\* -- Not Shown -- As an alternate to Items 2 through 2H, composite polyisocyanurate astic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. may be used illowing limitations. These composite building units have ventilation slots internal to the thickness of the panel depends upon the thinnest portion of the polyisocyanurate. The following dimensions apply to the polyisocyanurate insulation min. thickness is 12 in. for ings and 2.0 in. for the I-1/2 in. ratings. There is no limit on the maximum insulation thickness. SIALS CORP -- Type INSUL-AIR.

NVILLE INTERNATIONAL INC -- Type ISO-VENT.

21, polyisocyanurate foamed plastic in ce with gypsum board. Min thickness on, for the 1-1/2 hr ratings. No limit on overed a min of 6 in, in adjacent rows. sum Composite.

barrier, applied with adhesive to gyps

heathing Material\* -- (Optional) -- In lieu of Items 3 ig underlayment membrane which may be placed on to 2). 1TINGS # WATERPROOF 18 DIV -- Grace , a self-adhered rubberized asphalt roofing he gypsum board (Item 4) or on the roof insulation covered as an alternate to Item 2). Shield, Grace Select, Grace Ultra, and Grace 3 and 3A, a self-adhered rubberized asphalt top of gypsum board (Item 4) or on the roof

in sheets nom 2 by 4 ft to 4 boosteel roof deck direction with with end joints staggered 2 h with d 2 ft in

iturers.

IIV steel deck Min 0.023 in. thick (24)

Je. Welded to supports with welding washers ogether with No. 12 by 1/2 in. self-drilling, Classified Steel Floor and Form Units\* -- Juge is 22 MSG. Welded to supports with Jed or secured together with No. 12 by 1/2 in. sel joists.

J. SS-300.

pplied between crests of steel roof deck in OC at Ø.4 gal per lØØ sq ft. Applied in 1/2 in. u tween gypsum board and vapor barrier and between directly between gypsum boards and roof insulat ipplied at the same rate between layers of roof insulat ipplied at the same rate between layers of roof insulat insulation PRODUCTS INC anical Fasteners -- (Not shown) -- Any steel nail or isher designed for the purpose, may be used to attined through gypsum board).

Sephalt or Coal Tar Pitch -- (Not shown) ists -- Tolder of roof insulation. Strength B, High Strength BW, N, TF-T5, -125, -200. sof deck and gypsum board (Item 4) in 1/2 in. wide in 1/2 in. wide in 1/2 in. wide in 1/2 in. wide ribbons 6 in. OC, at 0.4 gal per 100 d between vapor barrier and mineral and fiber of insulation when vapor barrier is omitted. May roof insulation.

By be used as an alternate to adhesive ed 35 lb per 100 sq ft.

mate, LH-Series steel joists spanning no n 60 ft. LH-Series joists may be used it total load shall not be greater than 1/244 of d welded to end supports.

I oc, min 0.053 in. thick (16 gauge) painted nges. For joist spacings greater than 48 in.

S) painted cold rolled steel channels, 2 in.

sick with 18 SWG galv steel wire 48 in. Oc and as required to provide attachment

In which ceramic fiber paper and held open with a Fusible Link (Bearing the UL Listing Mark). Partures, Recessed Light -- For Use with Steel Framing Mark). Fluorescent lamp type, NETMA Type F steel housing, I in wide and longer thousand in which screen and longer the steel framing member of the steel housing, I by 2 ft, 1 bm 4 ft size. Fixtures provided with suing-out steel support how. Framing Members, Item ISB- (Bearing the using, I by 2 ft, I by 4 ft, 2 by 2 ft or 2 books near each corner designed to of steel framing member module to be extures to be additionally of each long side and at both ends in (ends) steel drywall screws. Fixtures of each long area. Wired in

UL Listing Mark. Fluorescent lamp type, NEMA Type F steel housing, I by 4 ft, 2 by 2 ft or 2 by 4 ft size. Fixtures provided with swing-out steel support hooks near each corner designed to ergage the bulb of the steel framing member cross tees. Fixtures to be additionally screw-attached to the cross tees near the center of each long side and at both enable using 1, long Type 5-12 (ends) steel screws. Fixtures and at both enable using 1, long Type 5-12 (ends) steel screws. Fixtures and at both enable using 2 in long Type 5-12 (ends) steel screws. Fixtures spaced so their area does not exceed 24 sq ft per each 100 sq ft of celling area. When the National Electrical Code. 14. Fixture Protection-Gypsum Board\* - 12 or 5/8 in thick, same as Item 16, 16A or 16B. Out into pieces to form a five sided enclosure. It is the state of fixture and enclosure. For the fixture (Item 13), trapezoidal in cross section, approx 1/2 in, longer and wider than the fixture with sufficient depth to provide at least 1/2 in, clearance between the fixture and enclosure. For the with 5 teel Framing Members, Item 15B-5/8 in thick, same as Item 16, 16A or 16B. Out to form a five sided enclosure, rectangular in cross-section, at least 1-1/4 in, higher than the NEMA Type F light fixture browling (Item 15A). The fixture protection side pieces are to be provided with nominal 1-1/4 in, wide by 3-1/2 in, long cutouts to accommodate the swing-out steel support hooks near each corner of the fixture. The fixture protection side and end pieces are to be provided with nominal 1-1/4 in, wide by 3-1/2 in, long cutouts to accommodate the swing-out steel support hooks near each corner of the fixture. The fixture browship of the fixture by 5-1/2 in, long steel organis. The top piece rests on the top edges of the side and end pieces without mechanical attachment. The fixture by 5/2 in the piece in the copy of the side and end pieces without mechanical attachment. The 15-1/2 in 15-1

1997. He inches the status of	End Piece, in.	
on Gypsum Board or 16B. Cut to form xture (Item 13B) The	$7 \times 12 - 1/4$	
* For Use with Ste 1 a five sided enclo fixture protection e	7 x 12-1/4	
el Framing Members, sure, rectangular in c	7 × 24-1/4	
Item I5 - 1/2 or 5/ iross section, for around the grid	7 × 24-1/4	

various sizes of NEMA Type + fixtures are listed below:	A Type + fixtures ar	e listed below:		
NEMA Type F				
Fixture Size	1 by 2 ft	l by 4 ft	2 by 2 ft	2 by 4 f
Top Piece, in.	ত × এ	9  X  5	<u>ა</u> × <u>ა</u>	31 × 55
Side Piece, in.	6 × 30	6 × 54	6 × 30	6 × 54
Trad Diego in	<u>o</u> ×	v × v	ನ × ಖ	ಸ × ಖ

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Section Botton - - For use it in alself vising enterex starched in botto 5 and 650-- 32 at 56 kb A-1 autom children are maked and one of the process of the

NO.

ISSUED

10/26/07

803 S. MOUNT MORIAH SUITE 100B MEMPHIS, TN 38117 (901) 683-7175 p. (901) 683-2385 f. Ilw@llwarchitects.com

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	- /2 hr

AMERICAN GYPSUM CO Types AG-C, AGX-C.		

1/2	Wallboard Thkns In.	eets screw-attached to l
1 hr	Restrained Assembly Rating Hr	eets screw-attached to leg of wall angle with drywall screws spaced 12 in. OC.
1 hr	Unrestrained Assembly Rating Hr	ws spaced 12 in. OC.

PLUMBING: CRABTREE ENGINEERING 726 S. MT. MORIAH MEMPHIS, TN 38117 (901) 767-9898

MECHANICAL: CRABTREE ENGINEERING 726 S. MT. MORIAH MEMPHIS, TN 38117 (901) 767-9898

SK INTERNATIONAL, INC. 130 SOUTH MAIN STREET HUNTSVILLE, AL 35811 (256) 852-3098

CONSULTANTS STRUCTURAL:

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ELECTRICAL: CHS ENGINEERING 726 S. MT. MORIAH MEMPHIS, TN 38117 (901) 767-2557

# Holday Sw. BOSSIER CITY, LOUISIANA

SHEET NAME

**UL DETAILS** 

FIRE RATED

DRAWN BY SCALE FILE NAME CHECKED BY 10/26/07 PEL  $\mathbb{X}$ 1507-UL13

DRAWING

PROJECT NO

NONE