UL D902 Normal Weight or Lightweight Concrete? Normal weight concrete, carbonate or siliceous aggregate, 3500 psi sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 per cent entrained air.
 Restrained
 Assembly Rating Hr Concrete
 (Type) Concrete Unit Weight pcf Concrete
 Thkns In.
 GENS METALS INC ? 12 or 24 in. wide Types LF2, LF3.
CHIA TEH CONSTRUCTION MATERIAL CO LTD ? 24 or 36 in. CANAM STEEL CORP ? 24 in. wide Type P-2432 composite or 36 in. wide Type P-3623 composite.

CONSOLIDATED SYSTEMS INC ? 24 in. wide Types CFD-2, CFD-3±24, 30 or 36 in. wide Type CFD-15±24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3±24 in. wide Types B2C, B2FC, NC, NFC±30 in. wide, Type B3C±12 in. (5)Corrugated, nom 1-5/16 or 2 in. deep, 30 in. wide, 24 MSG min galv units with shear wires spacing greater than 8 in. OC but less than or equal to 12 in. OC steel deck stress shall IC. Steel Joists ? (Not shown)? As an alternate to Item I? Composite or noncomposite, welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per SJJ. specifications for a max design stress of 30,000 psi.
Top chords shall consist of two angles measuring I-1/2 by I-1/2 by 0.156 in. thick Bottom chord shall consist of two round bars measuring 0,675 in. in diam. or two nangles measuring 1 by 1 by 0.125 in. thick. The second web member at each end shall consist of 0,654 in. diam round bars. Bridging per SJJ. specifications is required when noncomposite joists are used. 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 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. OF WHEELING CORRUGATING CO ? 30 in. wide Types SB-BIGLF, -150, -150NR, -150NR, -150Rt 24 in. wide Types SB-BIGLF, -300, SB-BIGLF, -N35LF, -P2ILF, -P3ILF or -P35LFt 12 in. wide Types SB-P3ILF or SB-P3ILFt 36 in. wide Types SB-BIGLT Types C20LF, C30LF, C30LF, C31LF, P20LF, P30LF, P30LF, P31LFt 36 in. wide Types 12 or 3 VULCRAFT, DIV OF NUCOR CORP ? 24, 30 or 36 in. wide, Type 1.5 VL, 1.5VLI, 1.5VLP± 24 or 36 HHROBERTSON ? QL Types, 24 in. wide, 3 or 3 inverted, UKX, 21 or 21 inverted, 2 in. 99, 121, AKX, NKX, TKX± 24 or 30 in. wide GKX, GKXH, GKX+A± 36 in. wide 2 in. 99, AKX, WKX± 12 in. wide NKC, TKC± 12 in. wide non-composite Sec 12. Side Joints of 99, 121, TKC, TKX, WKX may be welded together 60 in. OC. Side Joints of 99, AKX, WKX, GKX+A, TKX may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC. (1) All 24, 26, 28 or 36 in. wide cellular or partial cellular. ID. Steel Joists ? (Not shown)? As an alternate to Item !? May be either uncoated or provided with a shop coat of paint. Composite or noncomposite. Welded or bolted to end supports. Designed per SJ.1. specifications for a max desorted shall consist of two shall consist of two shall consist of two angles measuring I by I by Ø.127 in. thick Bearing plates shall conform of Ø.565 in. diam bars. The min depth and weight shall be 8 in. and 4.9 lb/ft respectively. IB. Steel Joists ? (Not shown)? As an alternate to Item !? Composite or noncomposite and welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per S.J.l. specifications for Top chords shall consist of two angles measuring |-1/2 by |-1/2 by @156 in. thick Bearing plates shall and shall be min 4-15/16 in long. The second web member at each end shall consist of @654 in. diam round bar. All remaining web members, including the end web members, shall consist of @.174 in. diam round bars. Bridging to the shall be min 4-15/16 in long. The second web member at each end shall consist of @654 in. diam round bar. All remaining web members, including the end web members, shall consist of @.174 in. diam round bars. Bridging to the shall be min 4-15/16 in long. The second web member at each end shall consist of @654 in. diam round bars. All remaining web members, including the end web members, shall consist of @.174 in. diam round bars. Bridging to the member at each end shall consist of @654 in. diam round bar. All remaining web members, including the end web members, shall consist of @.174 in. diam round bars. Bridging to the members at each end shall consist of @.174 in. diam round bars. Bridging to the members are shall consist of @.174 in. diam round bars. UNITED STEEL DECK INC ? 12 or 24 in. wide, Types 1-1/2, 2, or 3 in. LOK-Floor and LOK-Floor Cell± 36 in. wide, Types 2 or 3 in. LOK-Floor NEW MILLENNIUM BUILDING SYSTEMS L L C ? Type 15CD, 20CD, or 30CD EPIC METALS CORP ? 24 in. wide Types ECI50, ECI50 inverted, EC300, EC366, ECPI50, ECP300, ECP366, Epicore A, 20 ECA± 30 in. wide Types ECBI50, ECBRI50± 36 in. (4)Any blend of fluted and 24, 26, 28 or 36 in. wide cellular or partial 3A. Negative Reinforcement ? (Not Shown) - Optional -14. Steel Joists ? (Not shown)? As an alternate to Item I ? May be either uncoated or provided with a shop coat of paint. Composite or noncomposite. Welded or bolted to end supports. Designed per SJJ. specifications. The top chords shall consist of two angles measuring I by I by @125 in. thick. Bottom chords shall consist of two round bars measuring @566 in. in diam. or two angles measuring I by I by @125 in. thick. Bottom chords shall consist of two angles measuring I by I by @126 in. thick and 5-1/16 in. long. Web members shall consist of @565 in. diam bars. The min depth and weight shall be 8 in. and 4.9 lb/tt, respectively. +12 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B2C 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 in a blend of one cell to 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 MARLM STEEL DECKS INC ? Type 1.5 CF, 2.0 CF or 3.0 CF. Raceway divider ? Types DC-20, DC-25. Steel Floor and Form Units\* ? Composite 1-1/2, 1-5/8 , 2 or 3 in. deep galv Welded Wire Fabric ? 6x6 10/10 SWG. .eway isolation trough ? Types T-20, T-25, T-30. estrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) for a max 3 Hr and is limited to the following units
(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. (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 (d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear sp. (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. For assemblies utilizing 3-1/4 in. lightweight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestr (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 floor units only. ign stress of 30 ksi. o S.J.I. specifications . Web stress of 30,000 psi. o angles measuring 2 by 2 by 0,192 in. thick fications is required when noncomposite joists units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. c-Lock 2 or 3 units and a max of 24 in. OC for the B2C or B3C units. ; -P21LF, -P31LF. Lock Form Type, 24, 30 or 36 in. wide : Grip± 36 in. wide Types 212VW3-Wireway, 312VW3-Wireway nations of units may be used: F 27 U 4. Runner Angle ? 24 MSG galv steel with I and 2-in. legs. Fastened to steel deck 12 in. O.C. with Item 3. 5. Channel Bracket ? Fabricated from 25 MSG galv steel, I-11/16 in. deep with I-in. legs and spaced 24 in. O.C. Fast 6. Corner Angle ? Same material as Item 4, fastened to channel brackets with Item 3. 2. Steel Floor and Form Units\* ? I-1/2 in. fluted type, welded to beam 10. Protective Material ? Spray-Applied Fire Resistive Materials\*? Spray applied to the underside of the steel floor units, filling the flutes of the units and providing a smooth ceiling which was 1/4 in. thick as measured from the bottom plane of the floor units. USG MEXICO S A DE C  $\vee$  1 Types C, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX. TEMPLE-INLAND FOREST PRODUCTS CORP ? Type TG-C, Type X, Veneer Pla UNITED STATES GYPSUM CO ? Types C, IP-XI, IP-X2, IPC-AR, SCX, SHX, URX. PABCO BUILDING PRODUCTS L L C, DBA LAFARGE NORTH AMERICA INC ? Types LGFC3, LGFC6, LGFC6A, LGFC-C, LGFC. NATIONAL GYPSUM CO ? Types FSK-C, FSK-G, FSW, FSW-C, FSW-G. GEORGIA-PACIFIC CORP? Types 5, C, DAP, DD, DA, DGG, GPF61, GFF66 G-P GYPSUM CORP, SUB OF BPB CANADA INC? ProRoc Type C, ProRoc Type X, ProRoc Type Abuse-Resistant CANADIAN GYPSUM COMPANY? Type C, IP-XI, IP-X2, IPC-AR, SCX, SHX or URX. BPB AMERICA INC ? Types FRPC, SF3, EGRG, ProRoc Type C, ProRoc Type X. BEIJING NEW BUILDING MATERIALS PUBLIC PABCO GYPSUM ? Type C, PG-3, PG-9 or PG-1. Normal Weight Concrete ? 148 pcf. AMERICAN GYPSUM CO ? Types AGX-1, AG-C . Alternate Construction - Steel Framing Members\*? As an alternate to Items 3, 4, 5 and 6 steel clips attached to both sides of beam flanges 2 ft OC and at ends of beam. First layer of gypsum board fastened to steel clips with 1-1/4 in. long Type 5 drywall screws, 2 in. by 2 in. 2 in Alternate Joint System ? (Not Shown) ? For lath only, A 1/6 in. thickness of gypsum plaster applied to entire exposed surface over Joints embedded in cementitious compound or 2 1/2 in. wide glass fiber tape stapled 8 in. OC on Joints. Corner Bead ? Fabricated from 20 MSG galv steel to form an angle with 1-1/4 in. legs. Legs perforated with 1/4 in. diam to wallboard with special crimping tool approx 6 in. OC. As an alternate, the bead may be nailed to the wallboard. AM GYPSUM INDUSTRY (SARABURI) CO LTD ? Type EX-I Gypsum Board\* ? 5/8 in. thick First layer fastened with 1-1/4 in. long, 0.150 in. diam screws spaced 16 in. O.C. Second layer attached 0.150 in. diam screws spaced 8 in. O.C. Screws are self-drilling and self-tapping Phillips head made of case-hardened steel. Drill Screw ? No. 8-18 by 1/2-in. long Phillips panhead drill screws, self-drilling and self-tapping, made -CONC SLAB -2 LAYERS 5/8" GYPBD FIXED W/ GRABBER STEEL BEAM DRYWALL CLIPS 6" MTL STUD W/ 5/8" GYPBD BOTH SIDES £ €2 h 17, 2004 ing Wall Rating - 2 HR vearing Wall Rating - 2 HR W3000 Scale 1/4" = 1'-0" 1/8" = 1'-0" **Revisions:** Project: February 6, 2007 ARCHETYPE, P.A. WALLTYPES, FLOORTYPES **ARCHITECTS BURNHAM TOWERS** AND BEAM WRAP 48 Union Wharf Portland, Maine 04101 419 CUMBERLAND AVE. (207) 772-6022 Fax (207) 772-4056 PORTLAND, MAINE