

**UL DESIGN L528 (CONT.)**

7E. Foamed Plastic\* – (As alternate to Item 6 and 6A, Not Shown) – Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft<sup>3</sup> or 2.0 lb/ft<sup>3</sup> density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 7). When spray foam insulation is installed, resilient channels (Item 3A) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum boards (Item 4) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 4) to be installed using minimum 1 1/4 in. long type 5 screws spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Item 9) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 3, 3B through 3F, 6, 6A, 7 through 7D. Not evaluated with flooring System (Item 1) Configuration No. 1.

7F. Baits and Blankets\* – (Not Shown) For use with Item 3 and 4C – Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. There is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the steel framing Members and gypsum panel membrane.

7G. Baits and Blankets\* – (Not Shown) For use with Item 3K, 3L, and 4F – Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. There is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the steel framing Members and gypsum panel membrane.

7H. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-1 1/16 in. by 18-1 1/16 in. with max. 1.6 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 10) shall be installed in accordance with installation instructions.

9A. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max damper assembly size nom 18 in. long by 18 in. wide and 4-1/4 in. high, or 8 in. diam. fabricated from galv steel. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

9B. Deleted.

9C. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 12 in. x 12 in. damper installed in accordance with the manufacturers installation instructions provided with the damper.

9D. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 10 in. long by 16 in. wide by 4 in. high rectangular damper with duct board plenum box assembly. The maximum outer dimensions of the plenum box assembly are 23-1/2 in. long by 19-1/2 in. wide and 1 7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.

9E. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 14 in. long by 14 in. wide by rectangular damper with 90° boot. The maximum size of damper/boot assembly is 14 in. long by 14 in. wide and 18 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.

9F. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 14 in. long by 14 in. wide by rectangular damper with 90° boot. The maximum size of damper/boot assembly is 14 in. long by 14 in. wide and 18 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.

9G. Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max plenum box size nom 13 in. long by 13 in. wide and 1 7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

9H. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max plenum box size nom 13 in. long by 13 in. wide and 1 7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

9I. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max plenum box size nom 19 in. long by 19 in. wide and 1-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

A plastic grille (Item 10) shall be installed in accordance with installation instructions.

9J. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 113 sq in. with the length not to exceed 10-0/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9K. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 113 sq in. with the length not to exceed 10-0/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9L. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9M. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max plenum box size nom 19 in. long by 19 in. wide and 1-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL FAB INC. – Models MSCD-1C and MRCD-1C

9N. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 87 sq sq in. with the length not to exceed 9 in. and the width not to exceed 9 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9O. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9P. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 75 sq in. with the length not to exceed 9 in. and the width not to exceed 9 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9Q. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 75 sq in. with the length not to exceed 9 in. and the width not to exceed 9 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

BRANSON CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA – Model PC-RD05CS

9R. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 121 sq in. with the length not to exceed 12 in. wide and 12 in. wide with 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP. – Model CRD-1W1

9S. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 254 sq in. with the length not to exceed 24 in. and the width not to exceed 24 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS – Model RD-52-1

POTIRIFF – Model CFD-52

9T. Alternate Ceiling Damper\* – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 196 sq in. with the length not to exceed 26 in. and the width not to exceed 14 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions provided with the damper.

C&S AIR PRODUCTS – Model RD-52-1B

POTIRIFF – Model CFD-52-1B

9U. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 254 sq in. with the length not to exceed 24 in. and the width not to exceed 24 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS – Model RD-52-1B

POTIRIFF – Model CFD-52-1B

9V. Alternate Ceiling Damper\* – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 254 sq in. with the length not to exceed 24 in. and the width not to exceed 24 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS – Model RD-52-1B

POTIRIFF – Model CFD-52-1B

9W. Alternate Ceiling Damper\* – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 140 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 70 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS – Model RD-52-1B

POTIRIFF – Model CFD-52-1B

9X. Alternate Ceiling Damper\* – (Optional. To be used with Air Duct Item 8.) – For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 254 sq in. with the length not to exceed 24 in. and the width not to exceed 24 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS – Model RD-52-1B

POTIRIFF – Model CFD-52-1B

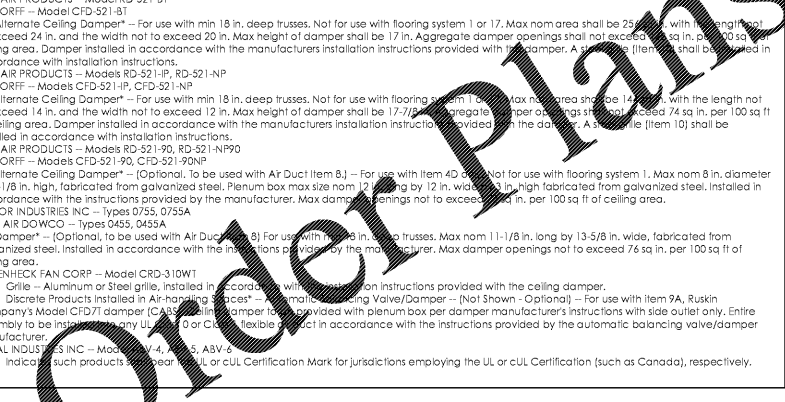
9Y. Damper\* – (Optional. To be used with Air Duct Item 8.) For use with min. 18 in. deep trusses. Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.

GREENHECK FAN CORP. – Model CRD-310WT

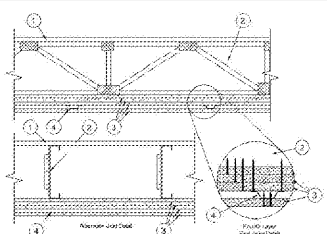
3. Grille – Aluminum or steel grille, installed in accordance with the manufacturers installation instructions provided with the ceiling damper.

4. Discrete Products installed in Air-handling spaces\* – (Not Shown – Optional) – For use with Item 9A, Ruskin Company's Model CFD77 damper (C&S Air Products) damper or plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed in accordance with UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



**UL DESIGN L556**



Design No. L556  
May 07, 2019  
Unrestrained Assembly Rating - 2 hr  
Finish Rating - 2 hr  
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used – See Guide BCUC or BCULV.  
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. 1  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
UNITED STATES GYPSUM CO INC – Types LFK, HSLRK, CSD  
USG MEXICO S A DE C V [View Classification] – CNKX.R1609  
Alternate Floor Mat Material\* – (Optional) Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor lopping over each floor mat material.  
UNITED STATES GYPSUM CO INC – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25  
Alternate Floor Mat Material\* – (Optional) – Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor lopping thickness shall be as specified under Floor Lopping Mixture.  
GRASSWORX LLC – Type SC50

System No. 2  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
UNITED STATES GYPSUM CO INC – Types LFK, HSLRK, CSD  
USG MEXICO S A DE C V [View Classification] – CNKX.R1609  
Alternate Floor Mat Material\* – (Optional) Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor lopping over each floor mat material.  
UNITED STATES GYPSUM CO INC – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25  
Alternate Floor Mat Material\* – (Optional) – Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor lopping thickness shall be as specified under Floor Lopping Mixture.  
GRASSWORX LLC – Type SC50

System No. 3  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
MAXXON CORP. – Type C-D, C-C, GC2000, L-R, T-F, CT, SS  
RAPID FLOOR SYSTEMS INC – Types RFR, RFL, Oriellecra  
Alternate Floor Mat Material\* – (Optional) Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor lopping over each floor mat material.  
MAXXON CORP. – Type Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Mat 3/4  
Premium, Acousti-Top

System No. 4  
Alternate Floor Mat Material\* – (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor lopping for use with floor mat reinforcement.  
Metal Lath – (Optional) – 3/8 in., expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.  
Fiber Glass Reinforcement – (Optional) – 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.68 lbs/sq yd, lay loose laid over the floor mat material.

System No. 5  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 1-1/2 in. thickness of floor lopping mixture having a minimum compressive strength of 1100 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
ACG MATERIALS – AccuCrete® types NexGen, Green, Prime, B, M, and PrePour, AccuRadiant, and AccuLevel types G40, G50 and S03  
Alternate Floor Mat Material\* – (Optional) – Nom 3/4 in. thick floor mat material loose laid over the subfloor. Floor lopping shall be a min of 3/4 in.  
ACG MATERIALS – AccuQuiet types P80, C40, D13, D-18, D25, D38, EM-125, EM-125S, EM-250, EM-250S, EM-375, EM-375S, EM-750, and EM-750S

System No. 6  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1000 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
FORMULATED MATERIALS LLC – Types RM, 25, 35, 30, and SteelMat  
Alternate Floor Mat Material\* – (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor lopping shall be a min of 3/4 in.  
FORMULATED MATERIALS LLC – Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 7  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 1-1/2 in. thickness of floor lopping mixture having a minimum compressive strength of 1000 psi. Refer to manufacturers instructions accompanying the material for specific mix design.  
FORMULATED MATERIALS LLC – Types RM, 25, 35, 30, and SteelMat  
Alternate Floor Mat Material\* – (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor lopping shall be a min of 3/4 in.  
FORMULATED MATERIALS LLC – Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 8  
Subflooring (Alternate) – Structural Cement-Fiber Units\* – Nominal 1 9 mm [3/4 in.] thick tongue and groove structural cement-fiber units. Long dimension panels to be perpendicular to joists with joints staggered. Panels fastened to the joist with #10 self-drilling, self-tapping cement board screws 1-3/4 in. long. Screws shall be spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.  
ECTEK INTERNATIONAL INC. – Armorac Panel

System No. 9  
Subflooring (Alternate) – Building Units\* – Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with 1-1/4 in. long self-drilling, self-tapping screws spaced a max of 12 in. OC in the field with screws located 1 in. from long edge, and max 8 in. OC along the end joints with screws located 1/2 in. from end joint.  
ECTEK INTERNATIONAL INC. – Type MegaBoard

System No. 10  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.  
UNITED STATES GYPSUM CO INC – Types LFK, HSLRK, CSD  
USG MEXICO S A DE C V [View Classification] – CNKX.R1609  
Alternate Floor Mat Material\* – (Optional) – Nom 1/4 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 3/4 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 55/025 and Quiet Qui 55/025 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 60/040 and Quiet Qui 60/040 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1-1/2 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 65/075, Quiet Qui 65/075 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 3/4 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 52/013 and Quiet Qui 52/013 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 55/025 M1 and Quiet Qui 55/025 N MT

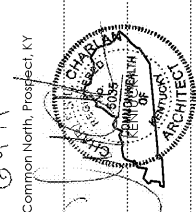
**UL DESIGN L556 (CONT.)**

System No. 10  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Vapor Barrier – (Optional) – Nom 0.030 in. thick commercial rad-stud building paper.  
Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.  
DEPENDABLE LLC – Types GS, M3.A, G3, K2.6, G3L-CSD and G3L, RH  
Floor Mat Material\* – (Optional) – Nom. 1/4 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 3/4 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 55/025 and Quiet Qui 55/025 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 60/040 and Quiet Qui 60/040 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1-1/2 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 65/075, Quiet Qui 65/075 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor lopping thickness shall be a minimum of 3/4 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 52/013 and Quiet Qui 52/013 N  
Alternate Floor Mat Material\* – (Optional) – Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor lopping thickness shall be a minimum of 1 in.  
KEENE BUILDING PRODUCTS CO INC – Types Quiet Qui 55/025 M1 and Quiet Qui 55/025 N MT

System No. 11  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.  
SEAL-FLOOR SYSTEMS INC – Type SFL  
Floor Mat Material\* – (Optional) – Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor lopping over each floor mat material.  
MAXXON CORP. – Type Accousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Mat 3/4  
Premium, Acousti-Top

System No. 12  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 1 in. thickness of floor lopping mixture having a minimum compressive strength of 450 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.  
METAL LATH (Optional) – Expanded galvanized steel diamond mesh, 2.5 lb/sq yd loose laid over floor mat material.  
FIBERGLASS REINFORCEMENT (Optional) – Coated non-woven glass fiber mesh grid loose laid over floor mat material.  
System No. 13  
Subflooring – Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-O applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist. Finish Flooring – Floor Lopping Mixture\* – Min 3/4 in. thickness of floor lopping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.  
Structural Wood Members – Min 9-1/4 in. deep 2" shaped wood joists spaced a max 24 in. OC. Min joist bearing on bearing plates 2 in. Joists secured to bearing plates with 2 x 8s nailed to each end. Circular nails may be cut in the web of the joists in accordance with the manufacturer's published design specifications.  
2A. Wood Joists – As an alternate to Item 2, Nominal 2 by 8 nominal 2 by 10 in. wood joists spaced 24 in. OC, fire-stopped or min. 18 in. deep parallel chord trusses spaced a max 24 in. OC fabricated from Nom 2 by 4 in. lumber with lumber oriented either vertically (2A) or horizontally (2B). Truss members secured together with No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a self-tightening plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/16 in. centers with four rows of teeth per in. of plate width.  
2B. Steel Channel Joists – As an alternate to Item 2, steel channel-shaped joists, min 8 in. deep with min 1-1/2 in. flanges and 1/4 in. stiffening flanges. The joists are fabricated from min 18 MSG galv steel. Min yield strength is 33 ksi. Joists spaced max 24 in. OC. Steel channel joists, perimeter supports, web stiffeners, bridging straps, blocking and blocking clips designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members, published by the American Iron and Steel Institute.  
3. Gypsum Board\* – Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501 or G512. Four layers of nom 5/8 in. thick, 4 ft wide gypsum board. First three layers installed with long dimension perpendicular to bottom chord of structural members. Adjacent butt joints staggered approximately 4 ft OC. Overlapping layers installed so that edges and butt joints offset min 10 in. from previous layer. Base layer fastened to bottom chord of structural members with 1-1/4 in. long W or S-12 steel screws spaced 12 in. OC. Second layer secured to bottom chord of structural members with 2 in. long type 8 or S-12 steel screws spaced 12 in. OC. Third layer secured to bottom chord of structural members with 2-1/2 in. type 8 or S-12 steel screws spaced 12 in. OC. Fourth layer secured to resilient channels with 1-1/8 in. long type 5 steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.  
ACADIA DRYWALL SUPPLIES LTD [View Classification] – CNKX.R25370  
AMERICAN GYPSUM CO [View Classification] – CNKX.R1176  
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO [View Classification] – CNKX.R19374  
CERTAINEED GYPSUM INC [View Classification] – CNKX.R3660  
CCC INC [View Classification] – CNKX.R1975  
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C [View Classification] – CNKX.R18482  
GEORGIA-PACIFIC GYPSUM L L C [View Classification] – CNKX.R2717  
LOADMASTER SYSTEMS INC [View Classification] – CNKX.R1809  
NATIONAL GYPSUM CO INC [View Classification] – CNKX.R350  
PARSCO BUILDING PRODUCTS L L C, DBA PARSCO GYPSUM [View Classification] – CNKX.R7094  
PANEL REY S A [View Classification] – CNKX.R21776  
SIAM GYPSUM INDUSTRY (SARABURI) CO LD [View Classification] – CNKX.R19262  
UNITED STATES GYPSUM CO INC [View Classification] – CNKX.R27517  
USG MEXICO S A DE C V [View Classification] – CNKX.R1319

UL Design L556 (Cont.)  
1. Resilient Channels – Hot shaped channels formed from No. 25 MSG galv steel spaced 24 in. OC perpendicular to structural wood members. Channels secured to bottom chord of structural member through lintel layer of gypsum board with 2-1/2 in. type 8 or S-12 steel screws spaced 12 in. OC. Second layer secured to bottom chord of structural members with 2 in. long type 8 or S-12 steel screws spaced 12 in. OC. Third layer secured to bottom chord of structural members with 2-1/2 in. type 8 or S-12 steel screws spaced 12 in. OC. Fourth layer secured to resilient channels with 1-1/8 in. long type 5 steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.  
2. Finishing System – (Not Shown) – Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.  
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Lyric at Norton Commons  
 Prospect, Kentucky  
 Bristol Development Group  
 881 Mabury Station Rd, Suite 204  
 Franklin, TN 37067

