

9/19/2016 BXUV1501 - Fire-resistance Ratings - ANSI/UL 263

ONLINE CERTIFICATIONS DIRECTORY

Design No. L501
BXUV 1501
Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

• Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and materials.
 • Authorities Having Jurisdiction should be consulted before construction.
 • Fire resistance assemblies and products are developed by the design submittal and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 • When field tests are used, it is recommended that the Fire Control or Assistant or the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific concerning alternate materials and alternate methods of construction.
 • Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263
 See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. L501

September 06, 2016

Unrestained Assembly Rating - 1 Hr.
 Finish Rating - (See Items 5 and 6)

This design was evaluated using a load design method other than the Link States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Link States Design Method, such as Canada, a load restraint factor shall be used - See Guide BXUV or BXUV7.

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

1. **Finishing Systems** - The finishing system shall consist of one of the following:

System No. 1

Subflooring - Min 1 1/2 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thick of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCCO) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Min. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/026 and Quiet Quil 55/025 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 65/075, Quiet Quil 67/075 N

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCCO) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Min. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/2 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/025 HT and Quiet Quil 55/025 N HT

System No. 14

Subflooring - Min 2 1/2 in. thick rigid wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered 4 ft. Panels secured to joists with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each wall. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* - One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type 9 bolts head end spaced 12 in. OC and located 1 in. from side and located 1 in. from end and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM LLC - Type D5

Floor Mat Materials* - (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat 3 HP, Acousti-Mat 3 HP, Etkonac 910, Etkonac 910 HP, Acousti-Mat LP-R

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strength axis of panel to be perpendicular to joists with joints staggered.

Subflooring (Alternate) - Structural Concrete Floor Slab* - Having 10 mm (3/4 in.) thick top and stress structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with 1/2" long, 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.

EXCE INTERNATIONAL INC - (Alternate Fabric)

Vapor Barrier - Nom 0.030 in. thick commercial resin-saturated building paper.

Finish Flooring - Min 1 1/2 in. T & G lumber installed perpendicular to joists, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type SAH, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SBH-25

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/4 in. (6 mm) thick adhered to subfloor. Floor topping thickness shall be a minimum of 1 1/4 in. (32 mm).

GRASSWORKS LLC - Type SCS0

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type CSD, LHK, HSBK, LK

USG MEXICO SA DE CV - Type LK, HSLK, CSD

System No. 3

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Floor Mat Materials* - (Optional) - Floor mat material Nom 5/16 in. (2 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC - Type QT01 4002

HACKER INDUSTRIES INC - Type Hacker Sound-Mat

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 1/4 in. (32 mm) thick floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT01 3006-3

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 225

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Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/4 in. (32 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 250, Quiet Quil 55/025

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/4 in. (32 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 400, Quiet Quil 60/040

System No. 4

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type SAH, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SBH-25

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC - Type QT01 4002

HACKER INDUSTRIES INC - Type Hacker Sound-Mat

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 1/4 in. (32 mm) thick floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT01 3006-3

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 225

System No. 5

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Floor Mat Materials* - (Optional) - Floor mat material Nom 5/16 in. (2 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC - Type QT01 4002

HACKER INDUSTRIES INC - Type Hacker Sound-Mat

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 1/4 in. (32 mm) thick floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT01 3006-3

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 225

System No. 6

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type SAH, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SBH-25

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 1/4 in. (32 mm) thick floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT01 3006-3

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 225

System No. 7

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type SAH, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SBH-25

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 1/4 in. (32 mm) thick floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT01 3006-3

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in. (19 mm).

HACKER INDUSTRIES INC - Type FRM-FILL SCL 225

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Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixure shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

ULTRA QUIET FLOORS - UQF-L, UQF-Super-Bond, UQF-Plus 200

System No. 8

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* - (Optional) - Min. 1/4 in. thick floor mat material loose laid over the subfloor. Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. When floor mat material is used, min thickness of floor topping thickness is 1 in. Floor topping thickness a min 3/4 in. over Acousti-Mat 1 floor mat.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat 3 HP

Alternate Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor with Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 3/4 in. (19 mm) over 15/32 in. thick wood structural panels.

MAXXON CORP - Type Acousti-Mat LP-R

Metal Lath - (Alternate to Crack Suppression Mat (CSM)) - 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Alternate Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor with Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 3/4 in. (19 mm) over 15/32 in. thick wood structural panels.

MAXXON CORP - Type Acousti-Mat LP-R

Metal Lath - (Alternate to Crack Suppression Mat (CSM)) - 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Alternate Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor with Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 3/4 in. (19 mm) over 15/32 in. thick wood structural panels.

MAXXON CORP - Type Acousti-Mat LP-R

Metal Lath - (Optional) - For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1 1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat LP-R

System No. 9

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Type SAH, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SBH-25

Alternate Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor with Maxxon Floor Primer to be applied to the surface of the mat prior to the floor topping placement. Floor topping thickness shall be min 3/4 in. (19 mm) over 15/32 in. thick wood structural panels.

MAXXON CORP - Type Acousti-Mat LP-R

Metal Lath - (Optional) - For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1 1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat LP-R

System No. 10

Subflooring - Min 1 1/2 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat LP-R

System No. 11

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 or 1 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM - Accu-Crete, AccuLevel, AccuLevel G40 and AccuLevel S200

Alternate Floor Mat Materials* - (Optional) - Floor mat material nominal 2 - 8.5 mm thick loose laid over the subfloor. Floor topping shall be a minimum of 3/4 in. or 1 in. thick over 15/32 or 1/2 in. thick wood structural panels respectively.

ALLIED CUSTOM GYPSUM - Type Acousti-Quil P01, Type Acousti-Quil P02, Type Acousti-Quil P03, and Type Acousti-Quil D-15.

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Alternate Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor with Crack Suppression Mat (CSM) loose laid over the floor material. Floor topping thickness shall be min 1-1/2 in.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Crack Suppression Mat (CSM)

Metal Lath - (Alternate to Crack Suppression Mat (CSM)) - 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 parts of concrete to 1 part of Type I Portland cement. 300 lb of sand with 5-1/2 gal of water.

MAXXON CORP - Type Acousti-Mat LP-R

Metal Lath - (Optional) - For use with floor mat materials, 3/8 in. expanded galvanized steel diamond mesh, 3-4 inches of loose laid over the floor mat material. Floor topping thickness shall be min 1 1/2 in.

Fiber Glass Mesh Reinforcement - (Optional) - Maxxon Corp's "Maxxon Reinforcement (MR)" for use with or as an alternate to CSM or metal lath reinforcement; the material consists of a plastic coated non-woven fiber glass mesh grid intended to suppress cracks in the Floor Topping Mixture.

Finish Flooring - (Optional) - Min 3/4 or 1 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ALLIED CUSTOM GYPSUM - Accu-Crete, AccuLevel, AccuLevel G40 and AccuLevel S200

Alternate Floor Mat Materials* - (Optional) - Floor mat material nominal 2 - 8.5 mm thick loose laid over the subfloor. Floor topping shall be a minimum of 3/4 in. or 1 in. thick over 15/32 or 1/2 in. thick wood structural panels respectively.

ALLIED CUSTOM GYPSUM - Type Acousti-Quil P01, Type Acousti-Quil P02, Type Acousti-Quil P03, and Type Acousti-Quil D-15.

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System No. 12

Subflooring - 15/32 or 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

System No. 13

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial resin-saturated building paper.

Finish Flooring - (Optional) - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCCO) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Min. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/026 and Quiet Quil 55/025 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 65/075, Quiet Quil 67/075 N

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCCO) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Min. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/025 HT and Quiet Quil 55/025 N HT

System No. 14

Subflooring - Min 2 1/2 in. thick rigid wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered 4 ft. Panels secured to joists with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each wall. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* - One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type 9 bolts head end spaced 12 in. OC and located 1 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM LLC - Type D5

Floor Mat Materials* - (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.

MAXXON CORP - Type Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat 3 HP, Acousti-Mat 3 HP, Etkonac 910, Etkonac 910 HP, Acousti-Mat LP-R

http://database.cdn.ul.com/cgi-bin/XY/V/html#a1cL5E1X1FRAME#page=1#1#Name=BXUV1501#score#B5#Fire-resistance-Ratings-+ANSIUL+263#... 6/0

9/19/2016 BXUV1501 - Fire-resistance Ratings - ANSI/UL 263

Gypsum Board* - (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists and top of floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type 9 bolts head end spaced 12 in. OC and located 1 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM LLC - Type D5

System No. 15

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 in. thick wood structural panels, having a min compressive strength of 2000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

HAPEL CORP - Type Planex S, 35

System No. 16

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for min 15/32 in. thick wood structural panels, having a min compressive strength of 2000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

HAPEL CORP - Type Planex S, 35

System No. 17

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - (Optional) - Min 3/4 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC - GSL H3.6, GSL K2.6 and GSL H1

Floor Mat Materials* - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/025 HT and Quiet Quil 55/025 N HT

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/8 in. to 1/4 in. thick. Loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 65/075, Quiet Quil 67/075 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/2 in. to 3/4 in. thick. Loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/4 in. thick, entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Quiet Quil 55/025 HT and Quiet Quil 55/025 N HT

System No. 18

Subflooring - Min 1 1/2 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Finish Flooring - (Optional) - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1000 psi.

See Floor- and Roof-Topping Mixtures (CCCO) category for names of Classified Companies.

Floor Mat Materials* - (Optional) - Floor mat material Nom 1/8 in. to 1/4 in. thick. Loose laid over the subfloor. Floor topping thickness is dependent on thickness of floor mat used.

WALFORD INDUSTRIES INC - Type Acousti-Flo, Acousti-Flo CSM, Floor Topping thickness depends on products used as follows:

Acousti-Flo (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-Flo (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-Flo (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 1/4 in.

Acousti-Flo (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2