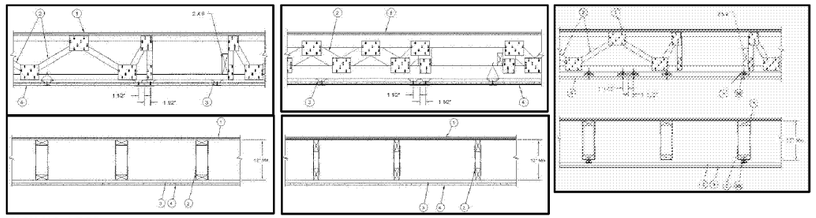

## 1 A0.15 U.L. DESIGN NO. L528

November 14, 2019
Unrestrained Assembly Rating – 1 Hr.
Finish Rating – 22 Hrs
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 DAQV or DAQV7

1. Flooring System – The flooring system shall consist of one of the following:
System No. 1
Subflooring – Min 23/32 in. thick T & G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
System No. 2
Subflooring – Min 23/32 in. thick T & G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Vapor Barrier – (Optional) – Non 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 3
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Floor Material* – (Optional) – Non material nom 3/64 in. (1mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. (25mm) of floor-topping mixture.
ISCORE INTERNATIONAL INC – Type QTeu 4002
HACKER INDUSTRIES INC – Type Hacker Bond-Mat.

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1/4 in. (6mm) of floor-topping mixture.
ISCORE INTERNATIONAL INC – Type QTrim 5006-S
HACKER INDUSTRIES INC – Type Hacker Bond-Mat II.

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19mm)
HACKER INDUSTRIES INC – FIRM-FILL SCM 125

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)
HACKER INDUSTRIES INC – Type FIRM-FILL SCM 250, Gilsit Gilt 55/0125

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)
HACKER INDUSTRIES INC – FIRM-FILL SCM 400, Gilsit Gilt 60/0400

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)
HACKER INDUSTRIES INC – Type FIRM-FILL SCM 750, Gilsit Gilt 65/0775

Metal Lath (Optional) – For use with 3/8 in. (10 mm) floor mat.
Metal Lath – Flat expanded steel lath, 3.4 lb/sq yd, shall be placed over the floor mat material. Hacker Floor Primer to be sprayed onto the underside of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 6.2 gal of water to 80 lbs of floor topping mixture to 1.4 cu ft of sand.
HACKER INDUSTRIES INC – Firm-Fill 6000
Concrete, Firm-Fill 2010, Firm-Fill 3500, Firm-Fill 4010, Firm-Fill High Strength, Rip-Stop Radiant

System No. 4
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 1-1/2 in. thickness of floor topping 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 – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Non 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

Alternate Floor Mat Material* – (Optional) – Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 3/4 in. thick.
CHENG CORNING – Type QuietZone Acoustical Floor Mat

System No. 5
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 1-1/2 in. thickness of floor topping 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 – Types LRK, HSLRK, CSO
LATICRETE SUPERCAP, L L C. – Types LRK, HSLRK
1366 HEAGO S A DE C V. – Types LRK, HSLRK, CSO

Floor Mat Materials* – (Optional) – Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Non 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

Alternate Floor Mat Material* – (Optional) – Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 3/4 in. thick.
CHENG CORNING – Type QuietZone Acoustical Floor Mat

System No. 6
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Floor Material* – (Optional) – Non material nom 3/64 in. (1mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor topping mixture.
ISCORE INTERNATIONAL INC – Type QTeu 4002
HACKER INDUSTRIES INC – Type Hacker Bond-Mat.

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)
ISCORE INTERNATIONAL INC – Type QTrim 5006-S
HACKER INDUSTRIES INC – Type Hacker Bond-Mat II.

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19mm)
HACKER INDUSTRIES INC – FIRM-FILL SCM 125

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)
HACKER INDUSTRIES INC – Type FIRM-FILL SCM 250, Gilsit Gilt 55/0125

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)
HACKER INDUSTRIES INC – FIRM-FILL SCM 400, Gilsit Gilt 60/0400

Alternate Floor Mat Materials – (Optional) – Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)
HACKER INDUSTRIES INC – Type FIRM-FILL SCM 750, Gilsit Gilt 65/0775

Metal Lath (Optional) – For use with 3/8 in. (10 mm) floor mat.
Metal Lath – Flat expanded steel lath, 3.4 lb/sq yd, shall be placed over the floor mat material. Hacker Floor Primer to be sprayed onto the underside of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 6.2 gal of water to 80 lbs of floor topping mixture to 1.4 cu ft of sand.
HACKER INDUSTRIES INC – Firm-Fill 6000
Concrete, Firm-Fill 2010, Firm-Fill 3500, Firm-Fill 4010, Firm-Fill High Strength, Rip-Stop Radiant

System No. 7
deleted

System No. 8
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring* – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 9
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – 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 – Types LRK, HSLRK, CSO
LATICRETE SUPERCAP, L L C. – Types LRK, HSLRK
1366 HEAGO S A DE C V. – Types LRK, HSLRK, CSO

Floor Mat Materials* – (Optional) – Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Non 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

Alternate Floor Mat Material* – (Optional) – Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 3/4 in. thick.
CHENG CORNING – Type QuietZone Acoustical Floor Mat

System No. 10
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 11
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Floor mat material nominal 2 – 4.5 mm thick loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

Floor Mat Reinforcement – (Optional) – Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material, primers and use of crack suppression reinforcement.
MAXXON CORP – Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) – 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 12
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Floor mat material nominal 2 – 4.5 mm thick loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

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 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 60/0400 and Gilsit Gilt 60/0400 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/2 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 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 GO INC – Type Gilsit Gilt 52/0751 and Gilsit Gilt 52/0751 N HT

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 the trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring* – 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 (CGOU) category for names of Classified Companies.
Floor Mat Materials* – (Optional) – Non 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 55/0125 and Gilsit Gilt 55/0125 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 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 60/0400 and Gilsit Gilt 60/0400 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/8 in. 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 GO INC – Gilsit Gilt 55/0125 HT and Gilsit Gilt 55/0125 N HT

System No. 14
Subflooring – Min 23/32 in. thick T&G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 15
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 16
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a minimum compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC – Type PR-25, PR-30, and StiffFx

Alternate Floor Mat Materials* – (Optional) – Floor mat material nominal 2 – 4.5 mm thick loose laid over the subfloor. Floor topping thickness shall be as min 3/4 in.

FORMULATED MATERIALS LLC – Types MI, M2, M3, M1 and M2

System No. 17
Subflooring – Min 1 ply & in. T & G lumber fastened diagonally to trusses, 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 trusses with joints staggered.
Finish Floor – Tile, marble or terrazzo – Min 1/2 in. thick, applied in strips ranging from 3 ft to lay 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent subfloor joints.
HOMASOTE CO – Type 440-SJ Mineral and Fiber Board

System No. 18
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Floor mat material nominal 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)
HACKER INDUSTRIES INC – Type FIRM-FILL SCM 750, Gilsit Gilt 65/0775

Metal Lath (Optional) – For use with 3/8 in. (10 mm) floor mat.
Metal Lath – Flat expanded steel lath, 3.4 lb/sq yd, shall be placed over the floor mat material. Hacker Floor Primer to be sprayed onto the underside of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 6.2 gal of water to 80 lbs of floor topping mixture to 1.4 cu ft of sand.
HACKER INDUSTRIES INC – Firm-Fill 6000
Concrete, Firm-Fill 2010, Firm-Fill 3500, Firm-Fill 4010, Firm-Fill High Strength, Rip-Stop Radiant

System No. 19
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring* – 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 (CGOU) category for names of Classified Companies.
Floor Mat Materials* – (Optional) – Non 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 55/0125 and Gilsit Gilt 55/0125 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 GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/8 in. 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 GO INC – Gilsit Gilt 55/0125 HT and Gilsit Gilt 55/0125 N HT

System No. 20
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP – Type Acoust-Mat I, Acoust-Mat II, Acoust-Mat III, Acoust-Mat LP, Acoust-Mat LP-R, Acoust-Mat SD

Floor Mat Materials* – (Optional) – Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP – Type Acoust-Mat I, Acoust-Mat II, Acoust-Mat III, Acoust-Mat 750, Acoust-Mat 950, Acoust-Mat SD, Acoust-Mat LP, Acoust-Mat LP-R, Acoust-Mat SD

Floor mat Reinforcement – (Optional) – Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material, primers and use of crack suppression reinforcement.
MAXXON CORP – Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) – 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 21
Subflooring – Min 23/32 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 trusses with joints staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP – Type Acoust-Mat I, Acoust-Mat II, Acoust-Mat III HP, Acoust-Mat 3, Acoust-Mat 3 HP, Enkasonic 1512, Enkasonic 1512 HP, Acoust-Mat LP-R

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 the joists with the ends and edges of each board secured to each other with min 1-5/8 in. long Type S bugle head sheet screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C – Type DS

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

MAXXON CORP – Type Acoust-Mat I, Acoust-Mat II, Acoust-Mat III HP, Acoust-Mat 3, Acoust-Mat 3 HP, Enkasonic 1512, Enkasonic 1512 HP, Acoust-Mat LP-R

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 the joists with the ends and edges of each board secured to each other with min 1-5/8 in. long Type S bugle head sheet screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C – Type DS

System No. 22
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Floor Topping Mixture* – Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP – Type Acoust-Mat I, Acoust-Mat II, Acoust-Mat III HP, Acoust-Mat 3, Acoust-Mat 3 HP, Enkasonic 1512, Enkasonic 1512 HP, Acoust-Mat LP-R, Acoust-Mat SD

Floor Mat Materials* – (Optional) – Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO – Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRH 25

Alternate Floor Mat Materials* – (Optional) – Non 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
GRANSONORIC L L C – Type SONO

Alternate Floor Mat Material* – (Optional) – Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 3/4 in. thick.
CHENG CORNING – Type QuietZone Acoustical Floor Mat

Floor Mat Reinforcement – (Optional) – Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material, primers and use of crack suppression reinforcement.
MAXXON CORP – Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath (Alternate to Crack Suppression Mat (CSM)) – 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 23
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.

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 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 60/0400 and Gilsit Gilt 60/0400 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/2 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 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 GO INC – Type Gilsit Gilt 52/0751 and Gilsit Gilt 52/0751 N HT

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. ½ in. 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 GO INC – Gilsit Gilt 55/0125 HT and Gilsit Gilt 55/0125 N HT

System No. 24
Subflooring – Min 23/32 in. thick T&G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 25
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring* – 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 (CGOU) category for names of Classified Companies.
Floor Mat Materials* – (Optional) – Non 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 55/0125 and Gilsit Gilt 55/0125 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 GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. ½ in. 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 GO INC – Gilsit Gilt 55/0125 HT and Gilsit Gilt 55/0125 N HT

System No. 26
Subflooring – Min 23/32 in. thick T&G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 27
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.

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 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 60/0400 and Gilsit Gilt 60/0400 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/2 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 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 GO INC – Type Gilsit Gilt 52/0751 and Gilsit Gilt 52/0751 N HT

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. ½ in. 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 GO INC – Gilsit Gilt 55/0125 HT and Gilsit Gilt 55/0125 N HT

System No. 28
Subflooring – Min 23/32 in. thick T&G wood structural panels, min grade "sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered 4 ft.
Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Stagger nails in adjacent rows. Withdrawal and lateral resistance strength may be subtracted for the 6d nails.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.
System No. 29
Subflooring – Min 23/32 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 joists staggered.
Vapor Barrier – (Optional) – Commercial asphalt saturated felt, 0.050 in. thick.
Finish Flooring – Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (UFPA) and Vermiculite Aggregate (EJ.22) categories for names of manufacturers.

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 3/4 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 60/0400 and Gilsit Gilt 60/0400 N

Alternate Floor Mat Materials* – (Optional) – Floor mat material nom. 1/2 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS GO INC – Type Gilsit Gilt 65/0775, Gilsit Gilt 65/0775 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.
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