

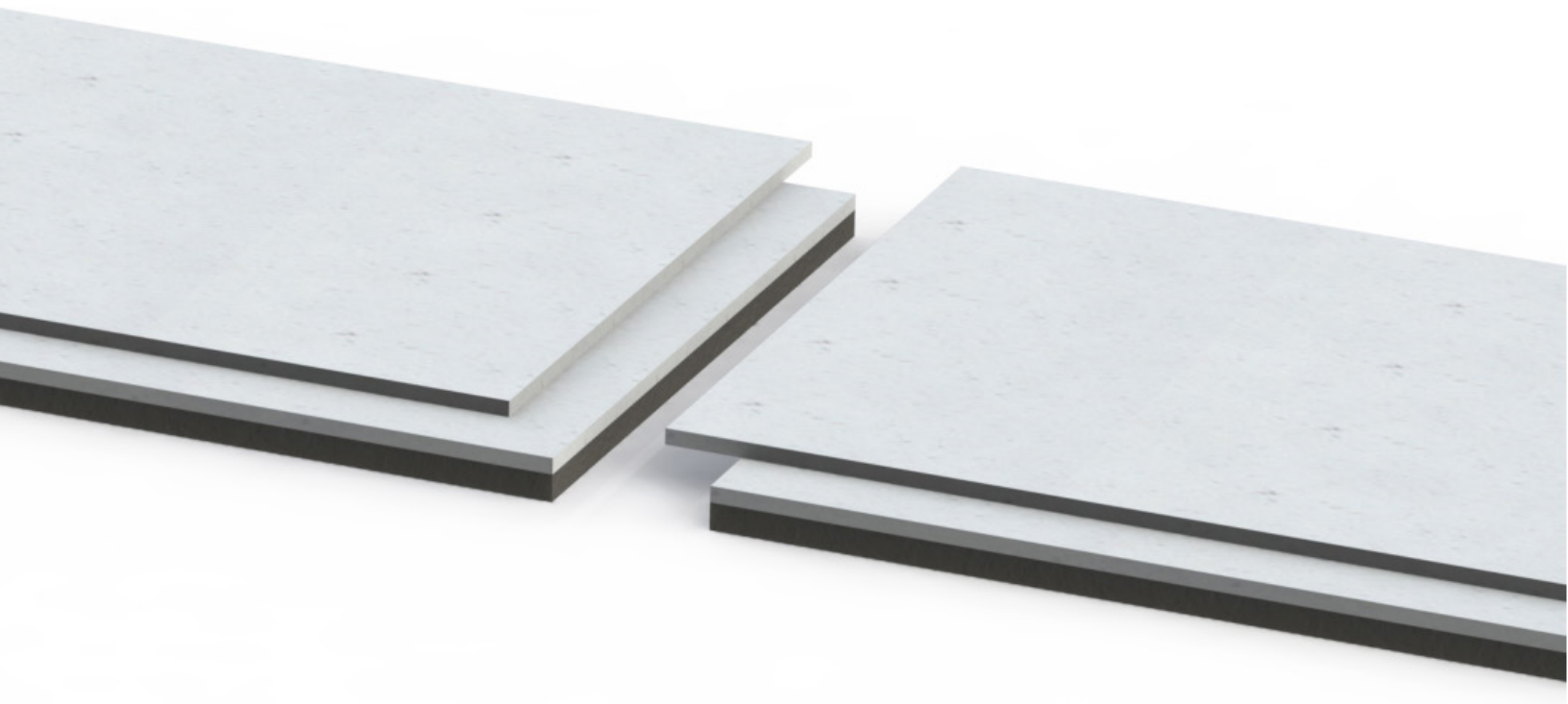


It's not magic, it's engineering.®

Impact Sound Control

GENIEBOARD®

Universal Flooring Boards



GENIEBOARD®

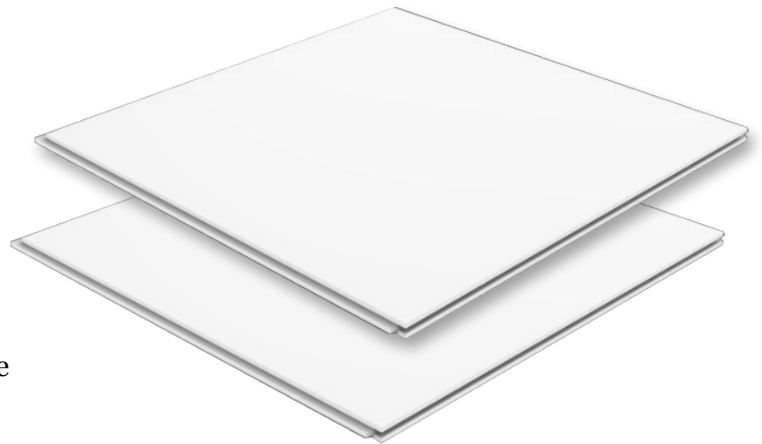
Universal Flooring Boards

OVERVIEW

Pliteq's GenieBoard line of products are engineered as a dry laid and sustainable alternative to poured gypsum concrete.

GenieBoard paired with **GenieMat** products provide a high performance system and slimmer floor assemblies backed by rigorous testing for proven results.

GenieBoard systems are compatible with most finished floors and perfect for any timber or concrete building to provide long lasting performance and avoid schedule delays.



FEATURES AND BENEFITS

- Eliminating the wet trade simplifies construction and saves cost.
- Reduce the risk of mold and slurry staining.
- Reduce the amount of embodied carbon associated with construction.
- Reduce the amount of structural materials required in a building.
- No cure time leading to faster construction.
- Reduce the amount of water brought into a building.
- Reduce the amount of volatile organic compound (VOC) emissions associated with the construction process.

GENIEBOARD 300 SERIES

GenieBoard 300 series dry cementitious layers are used in conjunction with **GenieMat® FF** resilient floating floors to meet STC and IIC requirements in floor-ceiling assemblies.

PRODUCT SPECIFICATION	GenieBoard 301	GenieBoard 302
Thickness	¾" (nom. 20 mm)	1" (nom. 25 mm)
Length	59" (1.5 m)	59" (1.5 m)
Width	19 11/16" (0.5 m)	19 11/16" (0.5 m)
Coverage	8.07 sq. ft (0.75 m²)	8.07 sq. ft (0.75 m²)
Weight	4.71 lbs/sq. ft (23 kg/m²)	5.94 lbs/sq. ft (29 kg/m²)
Dead Load	4.8 psf (0.23 kPa)	6.06 psf (0.29 kPa)
Thermal Resistance	0.65 sq. ft * K/W (0.06 m² * K/W)	0.86 sq. ft * K/W (0.08 m² * K/W)
Fire Class EN 13501	A2FL-S1	A2FL-S1

GENIEBOARD 400 SERIES

GenieBoard 400 series boards combine a non-combustible surface, which allows for air handling in the plenum, with resilient substrate to meet STC and IIC requirements under raised access floor systems.

PRODUCT SPECIFICATION	GenieBoard 430P-FFNC17
Thickness	1 3/16" (nom. 27 mm)
Length	48" (1.22 m)
Width	48" (1.22 m)
Coverage	16 sq. ft (1.48 m²)
Weight	83 lbs/panel (37.64 kg/panel)
Dead Load	4.59 psf (0.22 kPa)
Fire Resistance ASTM E119	Class A1 / Non Combustible

EASY INSTALLATION

LAY IT OUT - GLUE THE SHIPLAP ELEMENTS - STAPLE THE JOINTS



STEP 1

Begin work at one corner of the room and install **GenieBoard** towards the adjacent corner.



STEP 2

Apply **Pliteq** approved adhesive to the shiplap element of the **GenieBoard** then install by connecting the shiplap joints together.



STEP 3

Staple or screw **GenieBoard** joints at 200mm on centre.

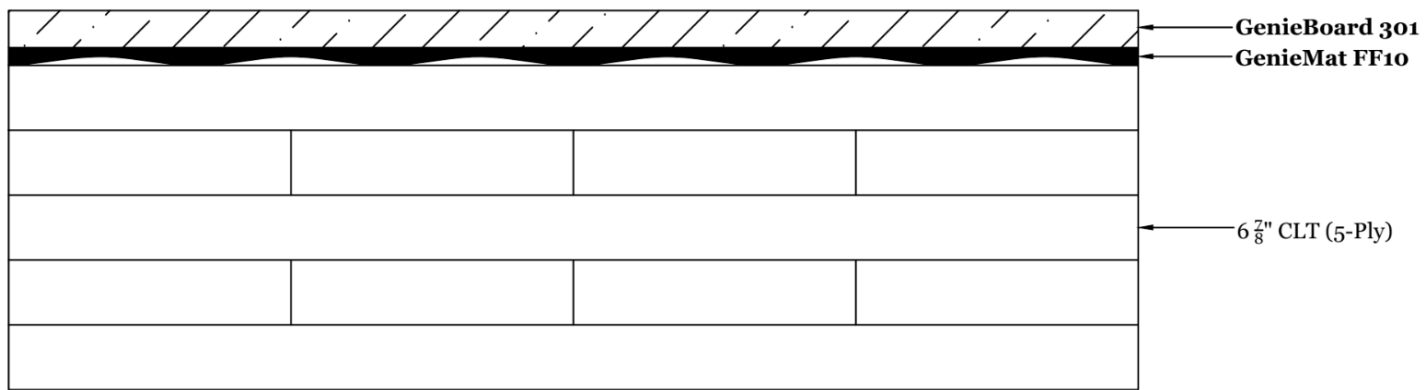
SIGNIFICANTLY IMPROVES INSTALLATION EFFICIENCY

STEPS	GenieBoard DRY CEMENTITIOUS LAYERS	GYPSUM CONCRETE
1	Layout GenieBoard	Install formwork
2	Apply Pliteq approved adhesive to the shiplap element of the GenieBoard	Pour gypsum concrete
3	Staple or screw GenieBoard joints	Cure for a minimum of 28 days
4	Install resilient underlayment or finished floor	Remove formwork
5		Install resilient underlayment or finished floor

GENIEBOARD 300 SERIES ACOUSTICAL TEST DATA

CROSS LAMINATED TIMBER DRY ASSEMBLIES

5-Ply Cross Laminated Timber with GenieBoard 301

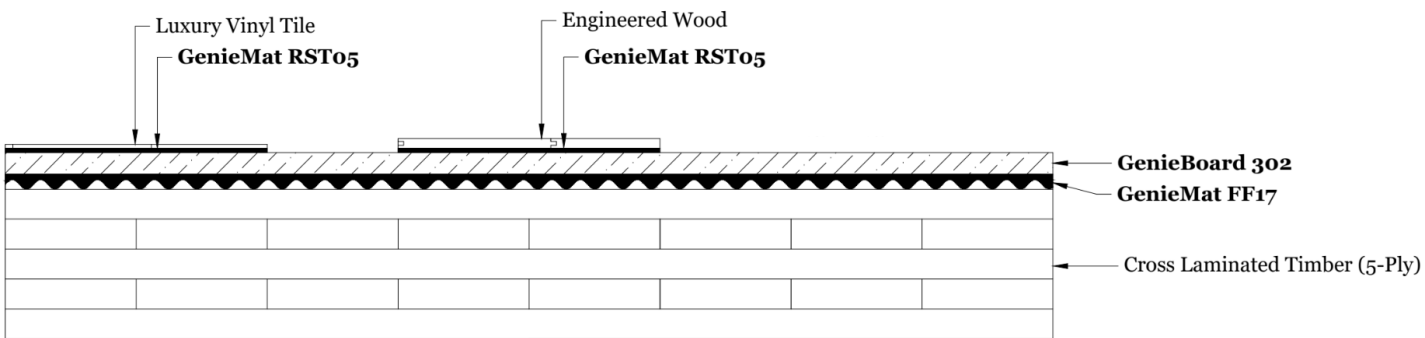


50
STC

45
IIC

M5094.02 M5094.02

5-Ply Cross Laminated Timber with GenieBoard 302



52
STC

50
IIC

M5094.06 M5094.06

52
STC

50
IIC

M5094.07 M5094.07

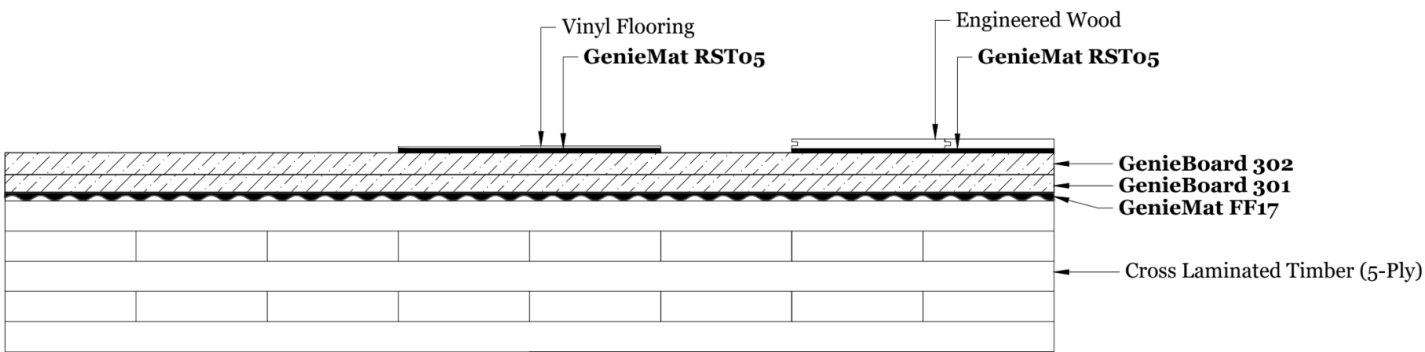
51
STC

46
IIC

M5094.08 M5094.08

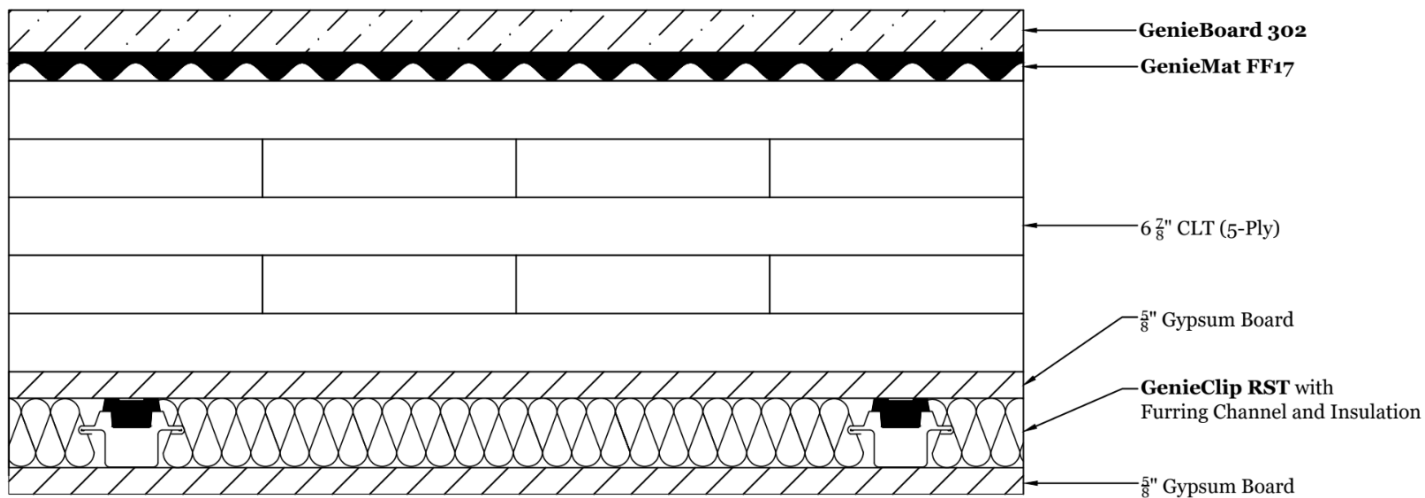
GENIEBOARD 300 SERIES ACOUSTICAL TEST DATA

5-Ply Cross Laminated Timber with GenieBoard 301 & 302



53 STC	48 IIC	52 STC	52 IIC	52 STC	51 IIC
M5094.03	M5094.03	M5094.04	M5094.04	M5094.05	M5094.05

5-Ply Cross Laminated Timber with GenieBoard 302 & GenieClip RST Ceiling

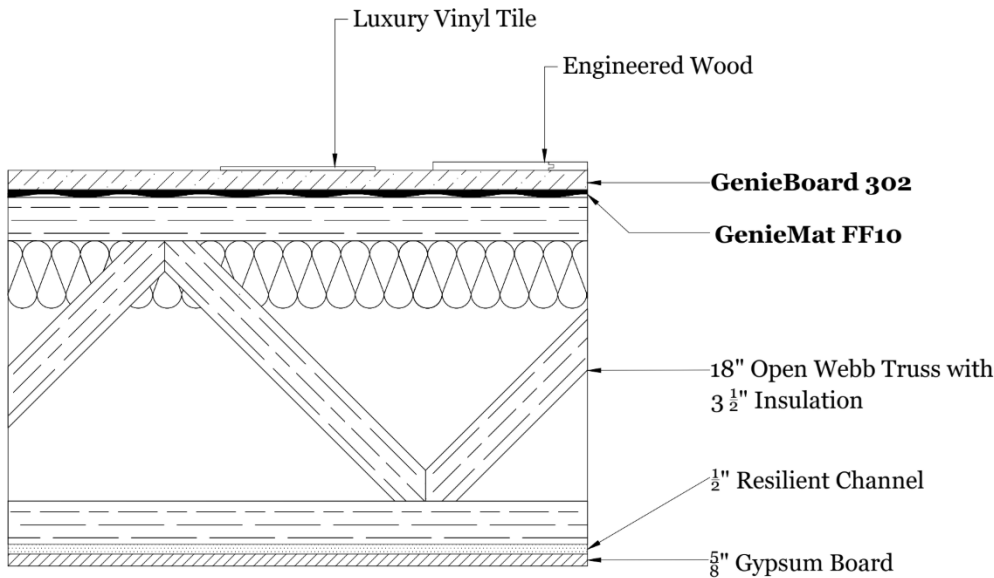


60 STC	52 IIC
M5094.11	M5094.11

GENIEBOARD 300 SERIES ACOUSTICAL TEST DATA

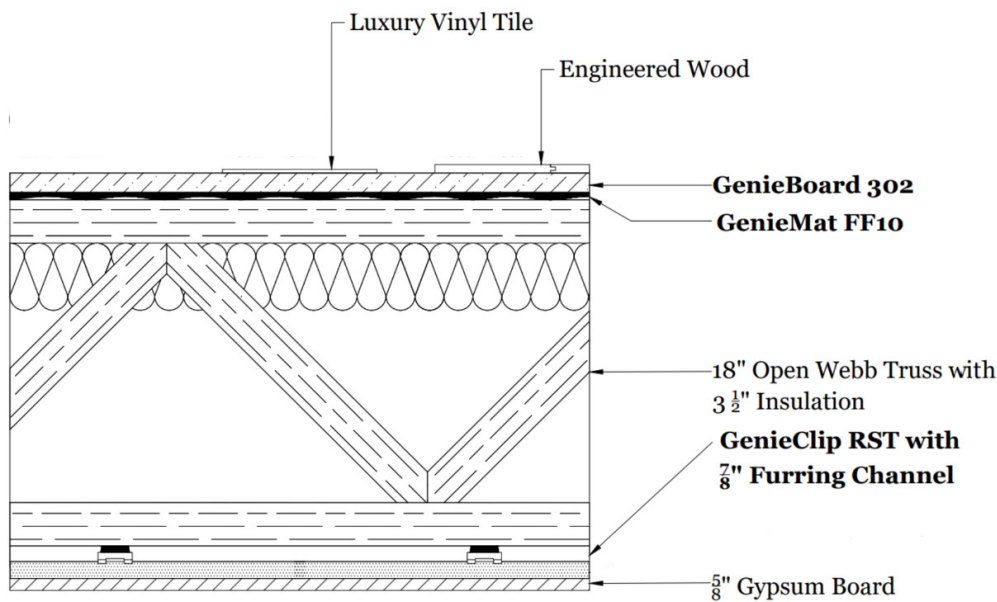
LIGHTWEIGHT WOOD FRAME ASSEMBLIES

18" Open Web Truss with GenieBoard 302 and Resilient Channel Ceiling



60 STC	58 IIC	60 STC	59 IIC	60 STC	61 IIC
S2324.04	S2324.04	S2324.06	S2324.06	S2324.05	S2324.05

18" Open Web Truss with GenieBoard 302 and GenieClip RST Ceiling

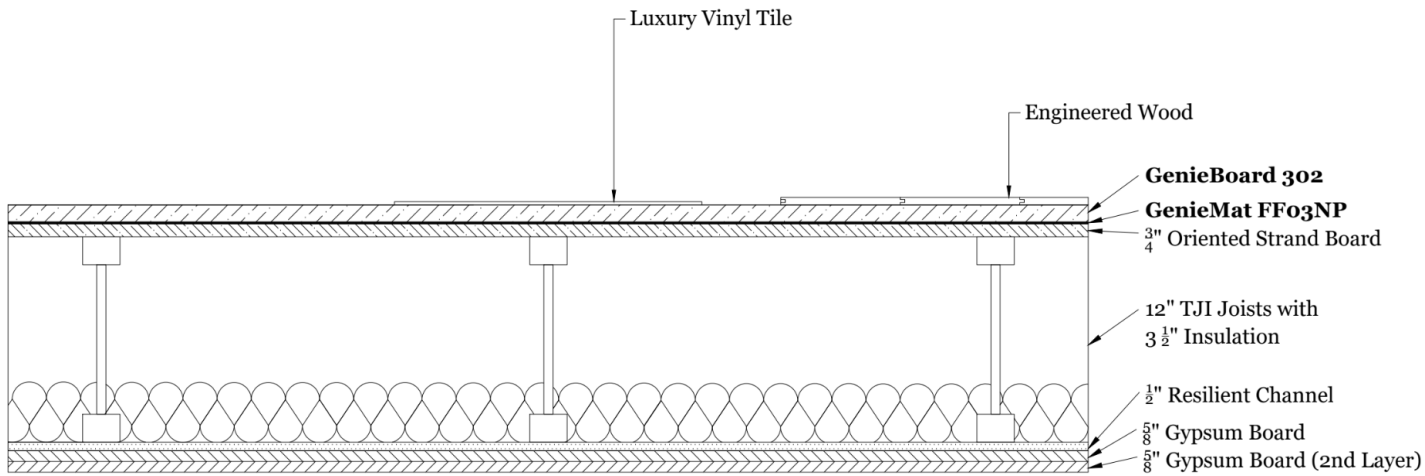


61 STC	61 IIC	61 STC	62 IIC	61 STC	62 IIC
S2324.08	S2324.08	S2324.10	S2324.10	S2324.09	S2324.09

GENIEBOARD 300 SERIES ACOUSTICAL TEST DATA

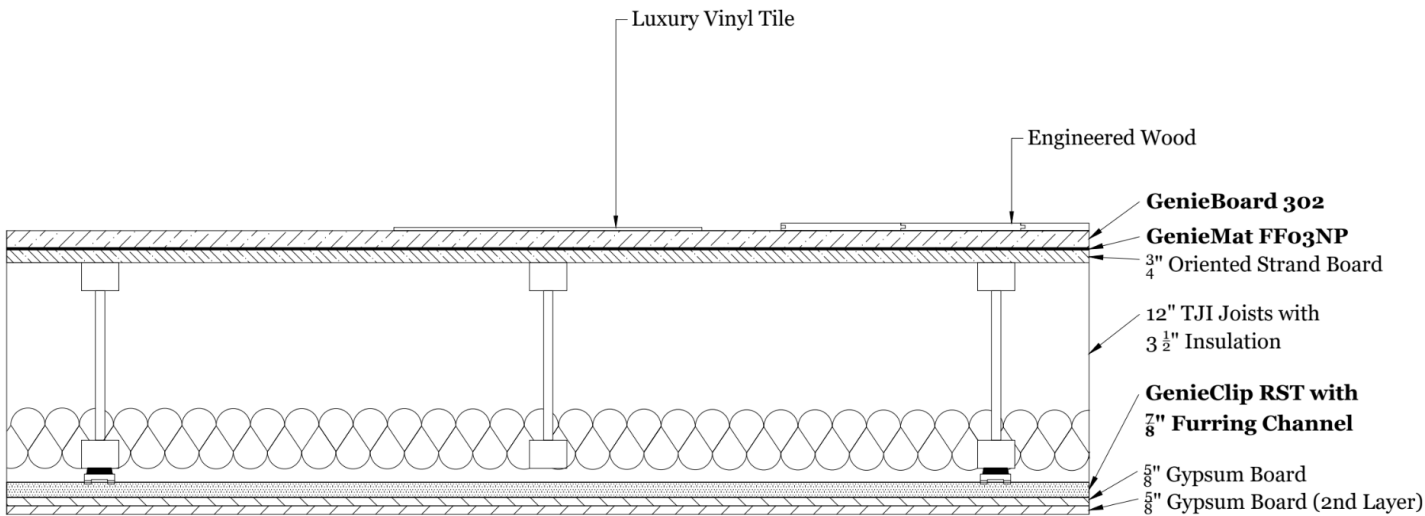
12" ENGINEERED JOIST WOOD FRAME ASSEMBLIES

GenieBoard 302 on GenieMat FF03 with Resilient Channel Ceiling



58 STC	57 IIC	58 STC	59 IIC	58 STC	61 IIC
S2326.18	S2326.18	S2326.20	S2326.20	S2326.19	S2326.19

GenieBoard 302 on GenieMat FF03 with GenieClip RST Ceiling

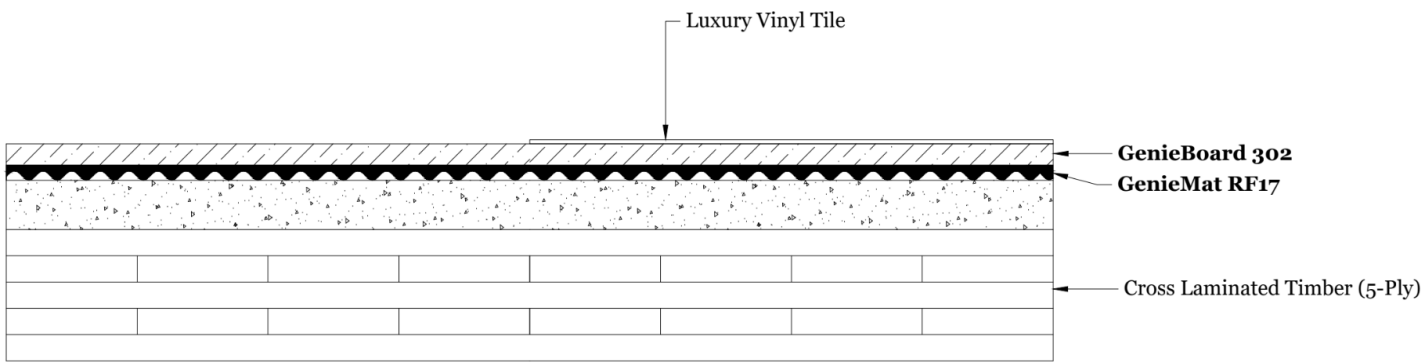


60 STC	59 IIC	60 STC	62 IIC	60 STC	62 IIC
S2326.15	S2326.15	S2326.17	S2326.17	S2326.16	S2326.16

GENIEBOARD 300 SERIES ACOUSTICAL TEST DATA

CROSS LAMINATED TIMBER-CONCRETE COMPOSITE ASSEMBLIES

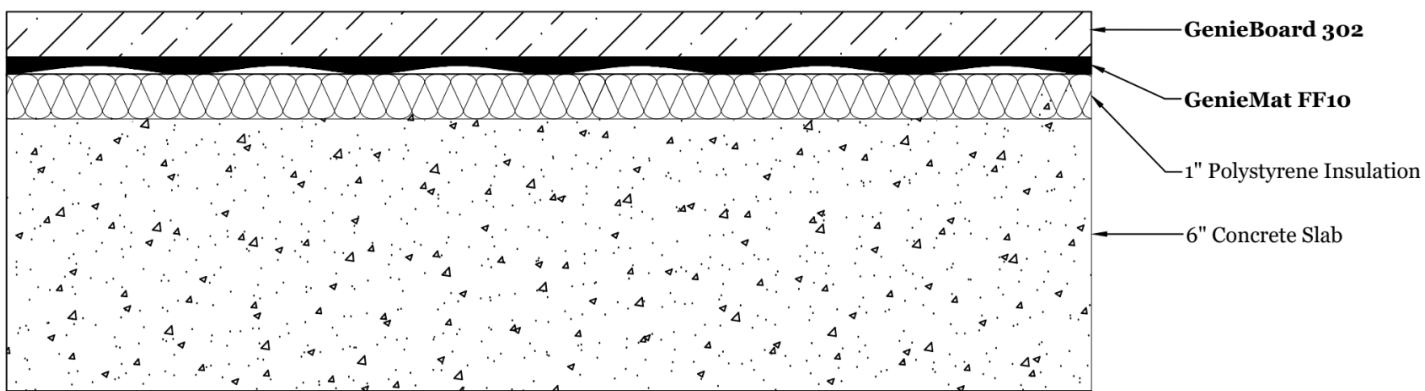
5-Ply Cross Laminated Timber-Concrete Composite (TCC) with GenieBoard 302



54 STC	54 IIC	55 STC	54 IIC
R7230.01	R7230.01	R7230.03	R7230.03

STRUCTURAL CONCRETE SLAB ASSEMBLIES

GenieBoard 302 on 6" Structural Slab

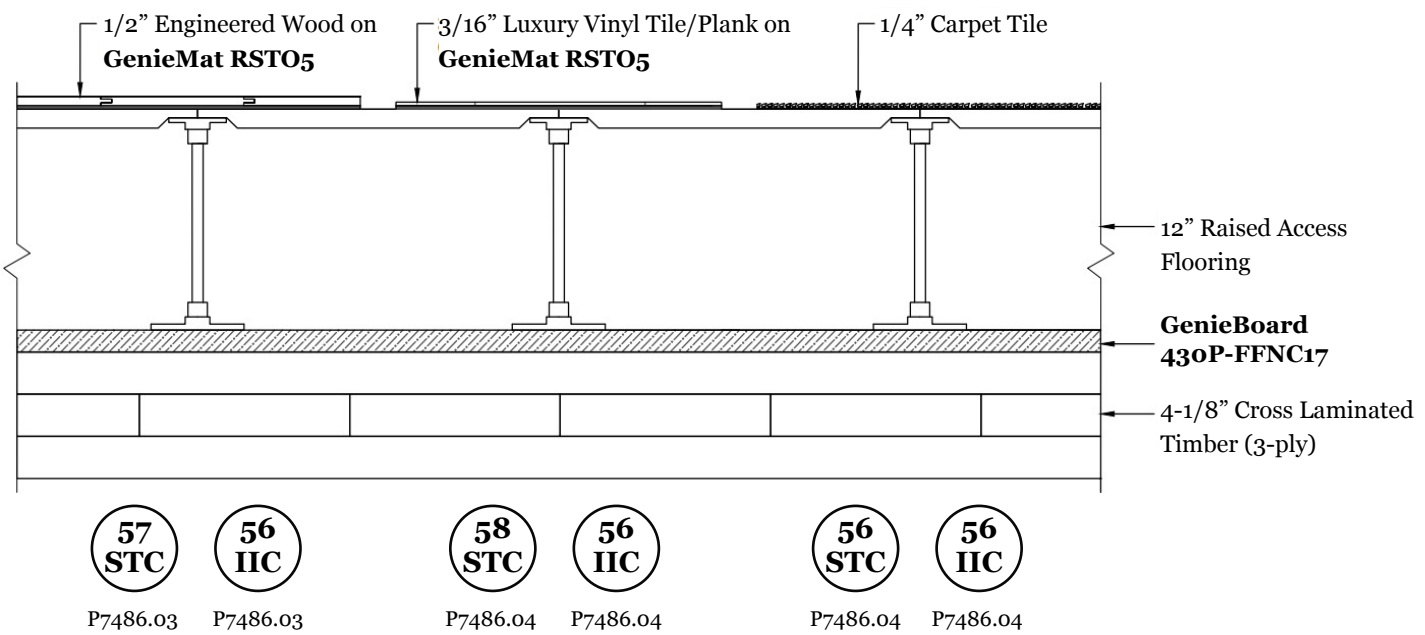


63 STC	55 IIC
80456-SRL-RP-XT-001	

GENIEBOARD 400 SERIES ACOUSTICAL TEST DATA

CROSS LAMINATED TIMBER DRY ASSEMBLIES

3-Ply Cross Laminated Timber with GenieBoard 430P-FFNC17



GENIEBOARD® PROTECT SERIES

GenieBoard Protect is an extremely dense and durable, flexible sheet good that is used when localized floating floors with non-stick surfaces are required.

FEATURES AND BENEFITS

- Proven to help significantly reduce ground borne vibration above 16 Hz when installed on engineered isolation layers.
- Allows for extreme heavy impacts with no damage to the surface.
- Flexibility under impact creates locally reactive floating floors.
- Low coefficient of friction for easy pick up and drop off of heavy objects.

PRODUCT SPECIFICATION	
Tensile Strength	10,000 psi (69 MPa)
Modulus of Elasticity - 25°C (ASTM D638)	4.1 * 105 psi (4.1 * 0.7 MPa)
Elongation - 25°C (ASTM D638)	75%
Impact Strength - Notched (ASTM D256)	1.0 ft * lbs/in
Hardness - Rockwell (ASTM D785)	120 R Scale
Flexural Strength - 25°C (ASTM D790)	14,000 psi (96 MPa)
Compressive Strength - 25°C (ASTM D695)	16,000 psi (110 MPa)
Shear Strength - 25°C (ASTM D732)	8,600 psi (59 MPa)
Deformation Under 2000 psi Load - 50°C (ASTM D621)	0.5%
Dynamic Coefficient of Friction (No Lubricant) - 25°C	0.35

TEST RESULTS

ACOUSTICAL TESTING STANDARDS - MASS TIMBER STRUCTURES

TEST REPORT NUMBER	PRODUCT	FLOOR TOPPING	RESILIENT UNDERLAYMENT	SUBFLOOR	RESILIENT UNDERLAYMENT	STRUCTURE	CEILING TYPE	STC RATING (ASTM E90)	IIC RATING (ASTM E492)
E5958.01	None	None	None	None	None	6 7/8" CLT	None	39	25
M5094.02	GenieBoard 301	None	None	None	GenieMat FF10	6 7/8" CLT	None	50	45
M5094.08	GenieBoard 302	None	None	None	GenieMat FF17	6 7/8" CLT	None	51	46
M5094.03	GenieBoard 302 & 301	None	None	None	GenieMat FF10	6 7/8" CLT	None	53	48
M5094.06	GenieBoard 302	Vinyl Plank	GenieMat RST05	None	GenieMat FF17	6 7/8" CLT	None	52	50
M5094.07	GenieBoard 302	Engineered Wood	GenieMat RST05	None	GenieMat FF17	6 7/8" CLT	None	52	50
M5094.04	GenieBoard 302 & 301	Vinyl Plank	GenieMat RST05	None	GenieMat FF10	6 7/8" CLT	None	52	52
M5094.05	GenieBoard 302 & 301	Engineered Wood	GenieMat RST05	None	GenieMat FF10	6 7/8" CLT	None	52	51
M5094.11	GenieBoard 302	None	None	None	GenieMat FF17	6 7/8" CLT	GenieClip RST + 2 x 5/8" Type X GWB	60	52
R7230.01	GenieBoard 302	None	None	None	GenieMat RF17	2 1/4" Concrete + 6" CLT	None	54	54
P7486.03	GenieBoard 430P-FFNC17	Engineered Wood	GenieMat RST05	12" Raised Access Flooring	None	4 1/8" CLT	None	57	56
P7486.04	GenieBoard 430P-FFNC17	Vinyl Plank	GenieMat RST05	12" Raised Access Flooring	None	4 1/8" CLT	None	58	56
P7486.05	GenieBoard 430P-FFNC17	Carpet Tile	None	12" Raised Access Flooring	None	4 1/8" CLT	None	56	56

ACOUSTICAL TESTING STANDARDS - STRUCTURAL CONCRETE SLAB ASSEMBLIES

TEST REPORT NUMBER	PRODUCT	FLOOR TOPPING	RESILIENT UNDERLAYMENT	SUBFLOOR	RESILIENT UNDERLAYMENT	STRUCTURE	CEILING TYPE	STC RATING (ASTM E90)	IIC RATING (ASTM E492)
80456-S RL-RP-XT-001	GenieBoard 302	None	None	1" Polystyrene Insulation	GenieMat FF10	6" Concrete Slab	None	63	55

ACOUSTICAL TESTING STANDARDS - WOOD FRAME STRUCTURES

TEST REPORT NUMBER	PRODUCT	FLOOR TOPPING	RESILIENT UNDERLAYMENT	SUBFLOOR	RESILIENT UNDERLAYMENT	STRUCTURE	CEILING TYPE	STC RATING (ASTM E90)	IIC RATING (ASTM E492)
S2324.04	GenieBoard 302	None	None	None	GenieMat FF10	Open Web Truss	1/2" RC Deluxe + 5/8" Type C GWB	60	58
S2324.06	GenieBoard 302	Vinyl Plank	None	None	GenieMat FF10	Open Web Truss	1/2" RC Deluxe + 5/8" Type C GWB	69	59
S2324.05	GenieBoard 302	Engineered Wood	None	None	GenieMat FF10	Open Web Truss	1/2" RC Deluxe + 5/8" Type C GWB	60	61
S2324.07	GenieBoard 302	Ceramic Tile	GenieMat RST03 PRO	None	GenieMat FF10	Open Web Truss	1/2" RC Deluxe + 5/8" Type C GWB	60	60
S2324.08	GenieBoard 302	None	None	None	GenieMat FF10	Open Web Truss	GenieClip RST + 5/8" Type C GWB	61	61
S2324.10	GenieBoard 302	Vinyl Plank	None	None	GenieMat FF10	Open Web Truss	GenieClip RST + 5/8" Type C GWB	61	62
S2324.09	GenieBoard 302	Engineered Wood	None	None	GenieMat FF10	Engineered Joist	GenieClip RST + 5/8" Type C GWB	61	62
S2324.11	GenieBoard 302	Ceramic Tile	GenieMat RST03 PRO	None	GenieMat FF10	Engineered Joist	GenieClip RST + 5/8" Type C GWB	61	61
S2326.18	GenieBoard 302	None	None	None	GenieMat FF03NP	Engineered Joist	1/2" RC Deluxe + 2 x 5/8" Type C GWB	58	57
S2326.20	GenieBoard 302	Vinyl Plank	None	None	GenieMat FF03NP	Engineered Joist	1/2" RC Deluxe + 2 x 5/8" Type C GWB	58	59
S2326.19	GenieBoard 302	Engineered Wood	None	None	GenieMat FF03NP	Engineered Joist	1/2" RC Deluxe + 2 x 5/8" Type C GWB	58	61
S2326.15	GenieBoard 302	None	None	None	GenieMat FF03NP	Engineered Joist	GenieClip RST 2 x 5/8" Type C GWB	60	59
S2326.17	GenieBoard 302	Vinyl Plank	None	None	GenieMat FF03NP	Engineered Joist	GenieClip RST 2 x 5/8" Type C GWB	60	62
S2326.16	GenieBoard 302	Engineered Wood	None	None	GenieMat FF03NP	Engineered Joist	GenieClip RST 2 x 5/8" Type C GWB	60	62