

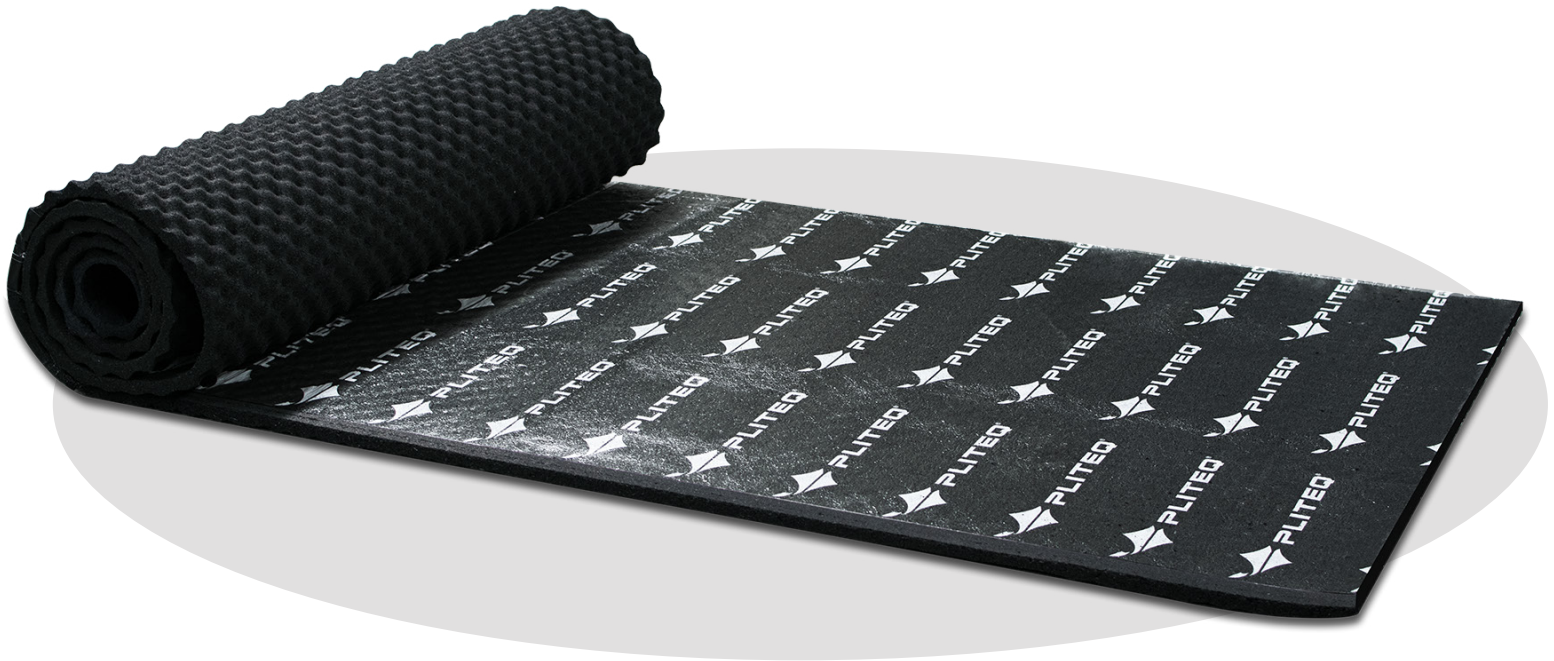


It's not magic, it's engineering.®

Impact Sound Control

GENIEMAT® RF

Acoustic Underlayment for Mass Timber
Airborne and Impact Sound Isolation



GENIEMAT[®] RF

Acoustical floating floor for Mass Timber

PRODUCT FEATURES

- Cost effective continuous underlayment system for Mass Timber construction.
- High coefficient of friction to prevent movement upon install for CLT deck.
- Approved for exterior installations before being enclosed.
- Integrated poly to prevent concrete from steeping and staining CLT.
- Light weight, rolls out quickly and is easy to install without the need for adhesive.
- Tested with numerous Mass Timber assemblies.
- Composed of 92% recycled content.
- Qualifies for LEED[®] points.
- Mold, bacteria, fungi, and water resistant.
- Penetrations for pipes, ductwork, electrical conduits, and drains are easily accommodated.

GenieMat RF is used for multiple applications. Contact our engineers for your project specific questions.

EASY INSTALLATION

ROLL IT OUT - TAPE THE SEAMS - READY TO POUR



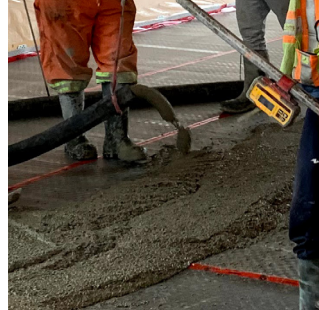
STEP 1

After installing perimeter isolation strips on the base of the walls, unroll **GenieMat® RF**.



STEP 2

Duct tape all joints and seams, including between the perimeter isolation strips and the **GenieMat® RF**



STEP 3

Pour gypsum, lightweight or normal weight concrete topping.



STEP 4

Prepare concrete surface for floor finish.

SIGNIFICANTLY IMPROVES INSTALLATION EFFICIENCY

STEPS	GENIEMAT® RF ROLL OUT SYSTEM	PLYWOOD FORMWORK ISOLATOR BASED SYSTEMS	SPRING JACK-UP TYPE SYSTEM
1	Install GenieMat PMI	Design isolator layout	Coordinate load requirements with associated trades
2	Roll out GenieMat RF	Install perimeter isolation	Design isolator layout based on equipment placement
3	Tape the seams	Roll out mineral fiber matting with fiberglass isolators	Install perimeter Isolation
4	Layout reinforcement and pour concrete	Install additional isolators based on load design	Verify equipment placement, snap chalk lines and spray paint isolator locations
5		Check isolators orientation and location	Layout clear polyethylene plastic sheathing
6		Cut and install plywood formwork	Layout isolators and place rebar grid
7		Install steel connecting corner plates	Pour concrete and cure to 17.2 MN/m2 minimum
8		Layout reinforcement, waterproof membrane and pour concrete	Remove all isolator cover plates
9			To raise slab 50 mm, complete 2 turns of each isolator 8-10 times
10			Replace cover plates and pour additional floor levelling compound

GENIEMAT® RF PHYSICAL PROPERTIES

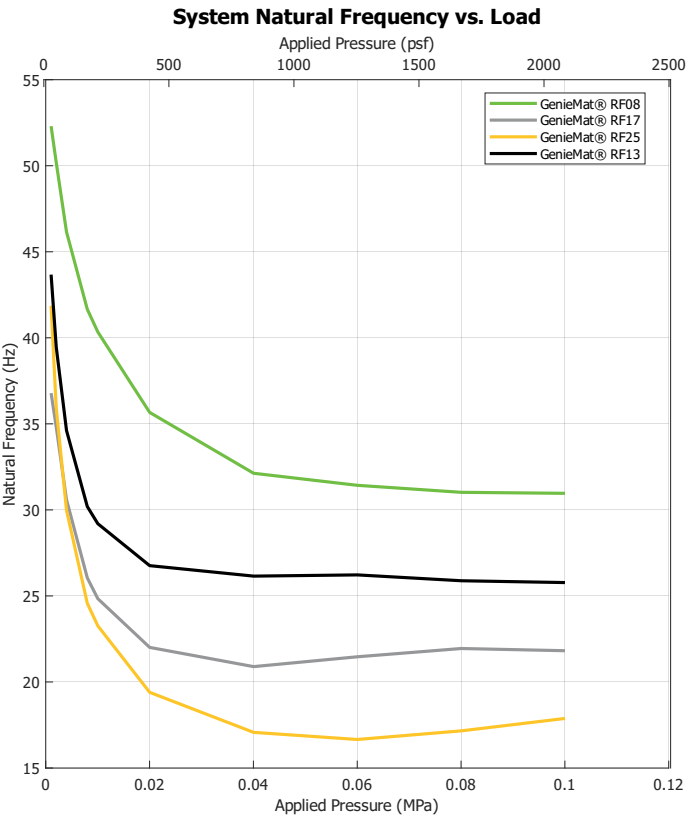
PLAN VIEW	PRODUCT	THICKNESS	DIMENSION	WEIGHT	AREA
	GenieMat RF08	1/4" (nom. 8 mm)	Rollgood: 4' wide, 30' long (1.22 m wide, 9.14 m long)	102 lb/roll (46 kg/roll)	120 ft² (11.15 m²)
	GenieMat RF13	1/2" (nom. 13 mm)	Rollgood: 4' wide, 25' long (1.22 m wide, 7.62 m long)	122 lb/roll (55.33 kg/roll)	100 ft² (9.29 m²)
	GenieMat RF17	2/3" (nom. 17 mm)	Rollgood: 4' wide, 15' long (1.22 m wide, 4.57 m long)	100 lb/roll (45.35 kg/roll)	60 ft² (5.57 m²)
	GenieMat RF25	1" (nom. 25 mm)	Rollgood: 4' wide, 15' long (1.22 m wide, 4.57 m long)	144 lb/roll (65.31 kg/roll)	60 ft² (5.57 m²)

GENIEMAT® RF PROPERTIES

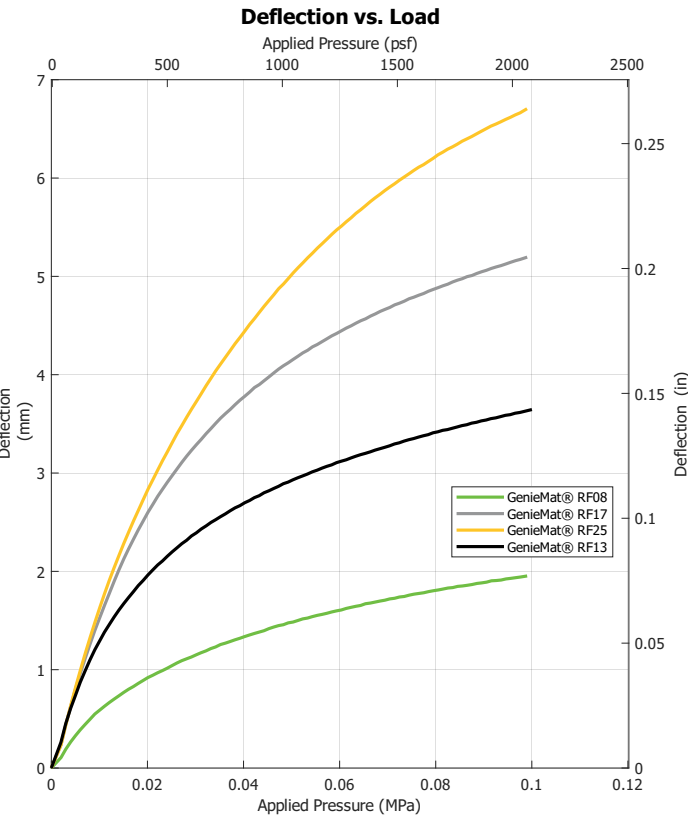
	4" CONCRETE (50 PSF DEAD LOAD)			TYPICAL LOADING (50 PSF DEAD LOAD + 25 PSF LIVE LOAD)		
PRODUCT	NATURAL FREQUENCY (HZ)	10 HZ DYNAMIC STIFFNESS (LBF/IN³)	CRITICAL DAMPING RATIO	NATURAL FREQUENCY (HZ)	10 HZ DYNAMIC STIFFNESS (LBF/IN³)	CRITICAL DAMPING RATIO
GenieMat RF08	45	66.79	6.0%	44	101.42	6.0%
GenieMat RF13	41	44.14	5.5%	38	69.14	5.4%
GenieMat RF17	38	43.11	5.3%	36	68.57	5.4%
GenieMat RF25	35	36.32	5.0%	33	58.85	4.9%

DESIGN PARAMETERS OF GENIEMAT® RF SYSTEM

System Natural Frequency vs. Load



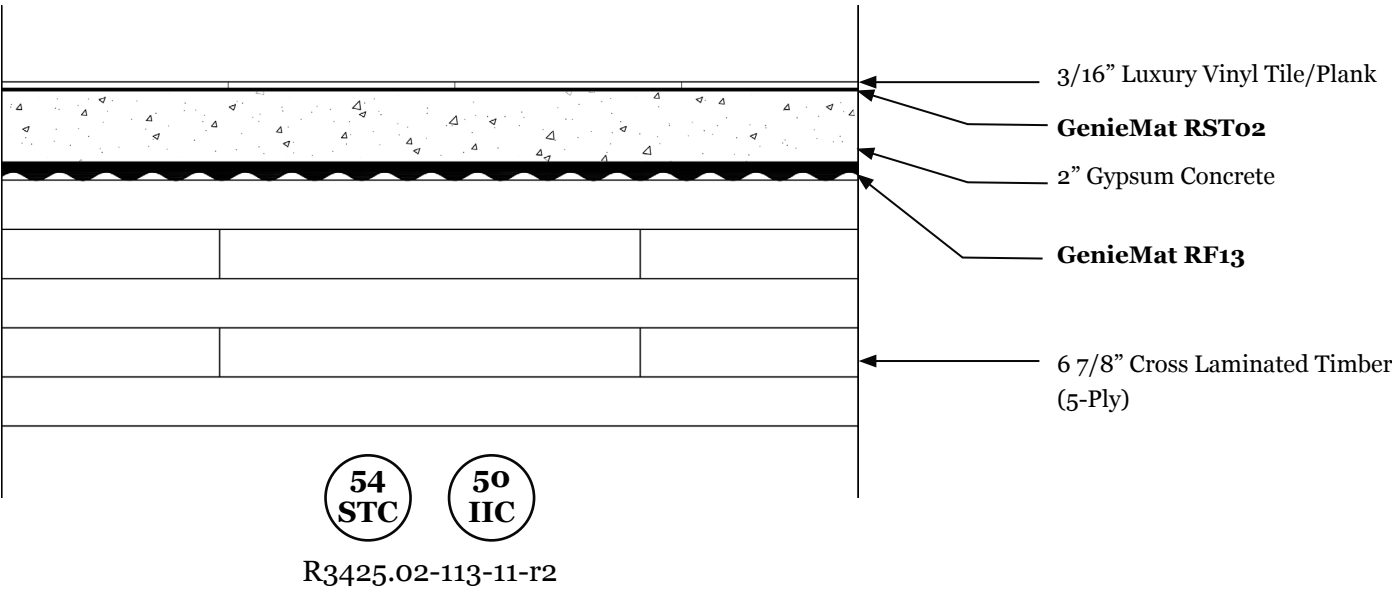
Deflection vs. Load



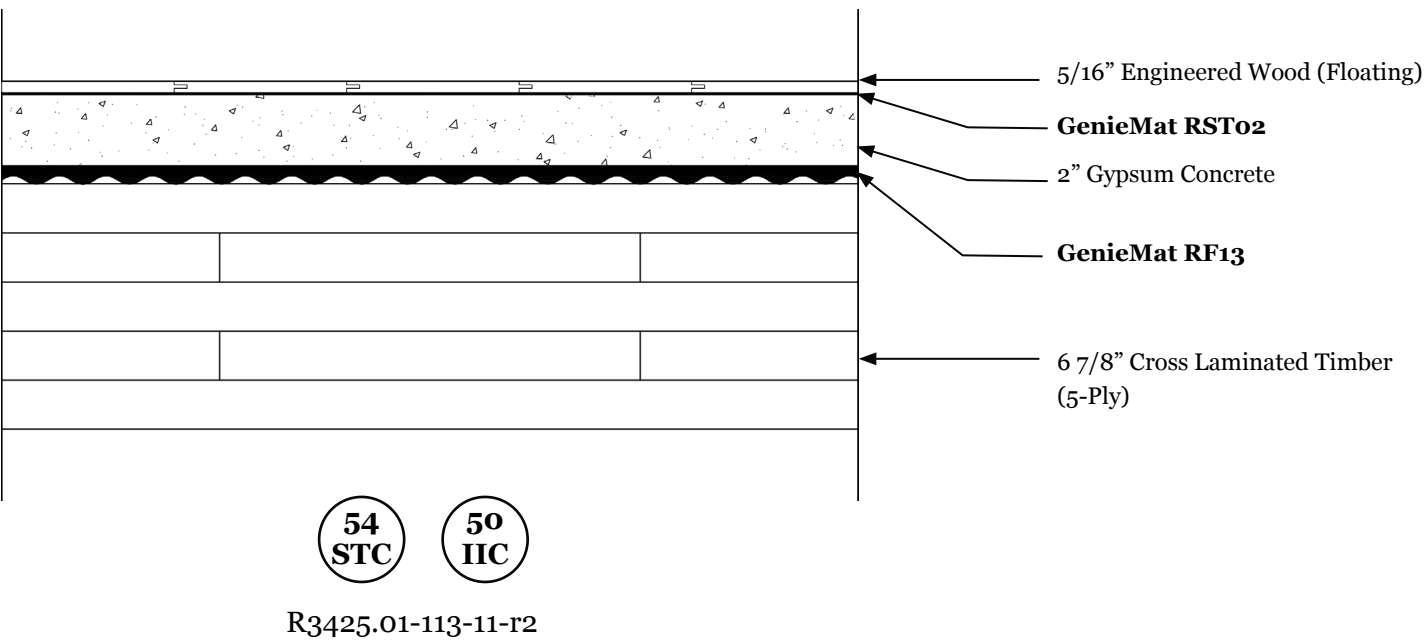
GENIEMAT® RF ACOUSTICAL TEST DATA

5-PLY CROSS LAMINATED TIMBER

3/16" Luxury Vinyl Tile/Plank with GenieMat RST02 and 2" Gypsum Concrete Topping on GenieMat RF13 and 6 7/8" Cross Laminated Timber (5-Ply)



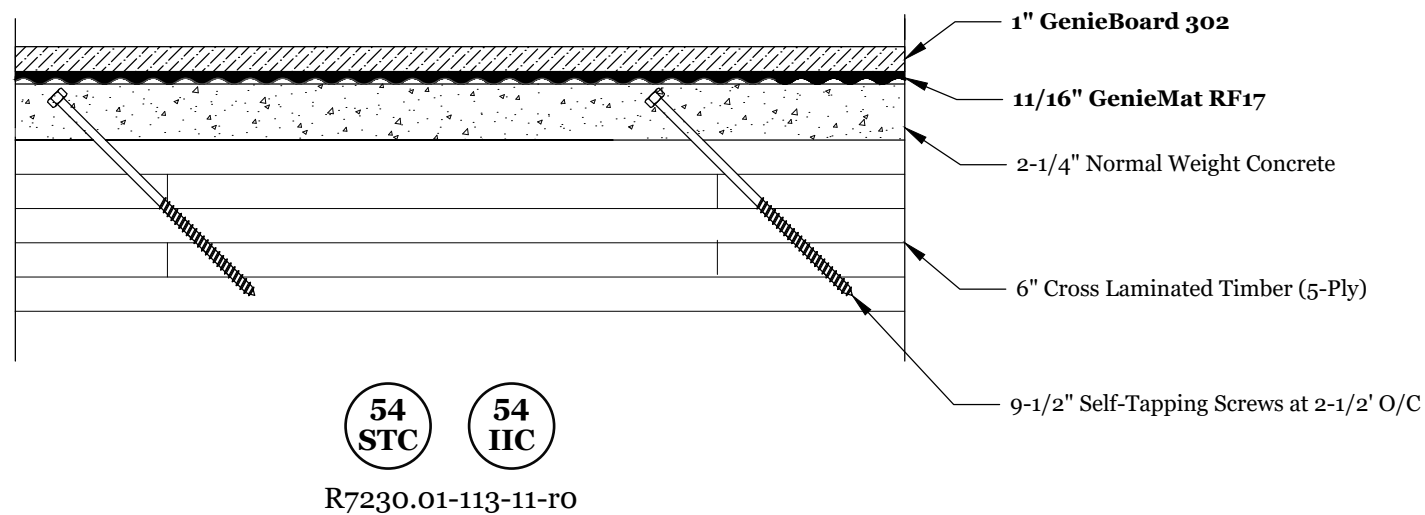
5/16" Engineered Wood with GenieMat RST02 and 2" Gypsum Concrete Topping on GenieMat RF13 and 6 7/8" Cross Laminated Timber (5-Ply)



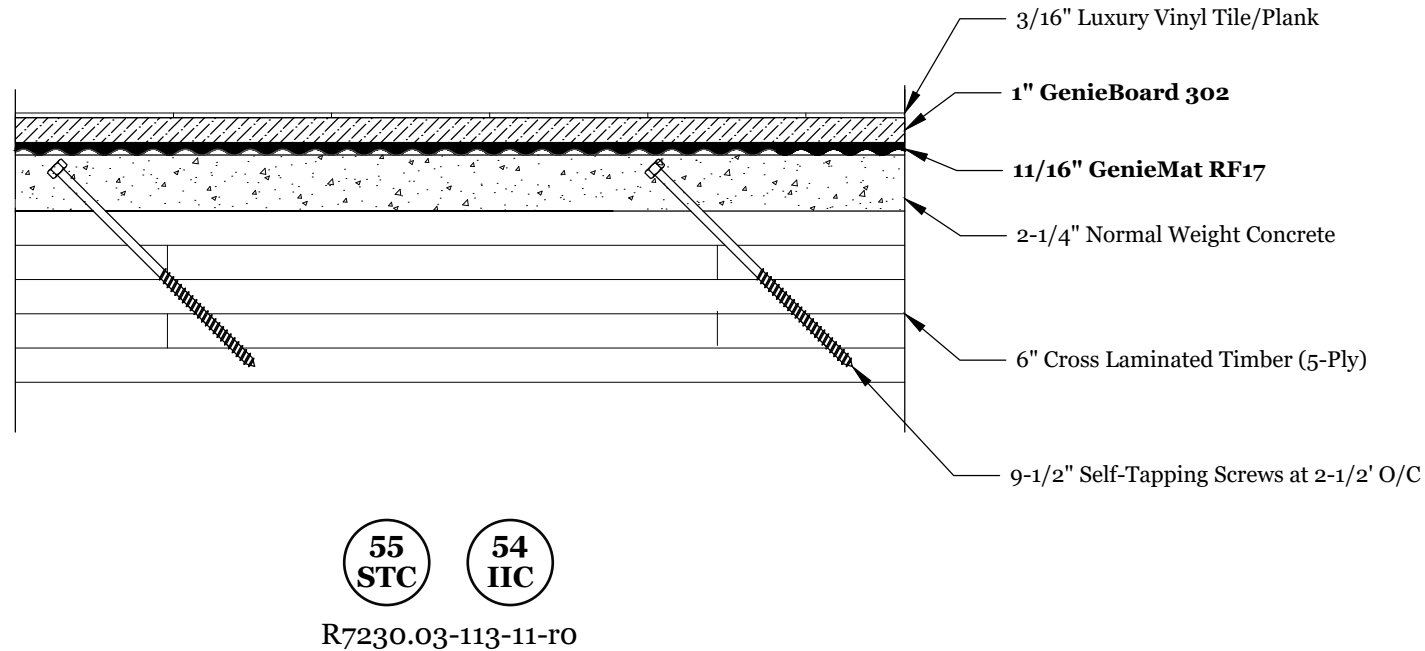
GENIEMAT® RF ACOUSTICAL TEST DATA

5-PLY TIMBER CONCRETE COMPOSITE FLOORS

1" GenieBoard on 11/16" GenieMat RF17 and 2 1/4" Concrete Topping and 6" Cross Laminated Timber (5-Ply)



3/16" Luxury Vinyl Tile/Plank with 1" GenieBoard 302 on 11/16" GenieMat RF17 and 6" Cross Laminated Timber (5-Ply)



TEST RESULTS

TEST RESULTS					
TEST NUMBER	PRODUCT	FLOOR TOPPING	STRUCTURE	STC RATING (ASTM E90)	IIC RATING (ASTM E492)
R7230.03-113	GenieMat RF17	Vinyl Plank + GenieBoard 302	6" CLT + 2-1/4" Concrete Composite Deck	55	54
R7230.01-113	GenieMat RF17	GenieBoard 302	6" CLT + 2-1/4" Concrete Composite Deck	54	54
R4738.01-113	GenieMat RF25	USG Levelrock	6" CLT + 2-1/4" Concrete Composite Deck	60	55
R4738.02-113	GenieMat RF25	Engineered Wood + USG Levelrock	6" CLT + 2-1/4" Concrete Composite Deck	60	55
R4738.03-113	GenieMat RF25	Vinyl Plank + USG Levelrock	6" CLT + 2-1/4" Concrete Composite Deck	59	55
R3425.01-113	GenieMat RF13	Engineered Wood + GenieMat RST02 + 2" Gypsum	6-7/8" CLT	54	50
R3425.02-113	GenieMat RF13	Vinyl Plank + GenieMat RST02 + 2" Gypsum	6-7/8" CLT	54	50
R3425.03-113	GenieMat RF13	Porcelain Tile + GenieMat RST05 + 2" Gypsum	6-7/8" CLT	53	48
R3425.04-113	GenieMat RF13	2" Gypsum	6-7/8" CLT	54	47

Contact Us

For your project specific questions: **T.416.449.0049** | **E.info@pliteq.com**

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