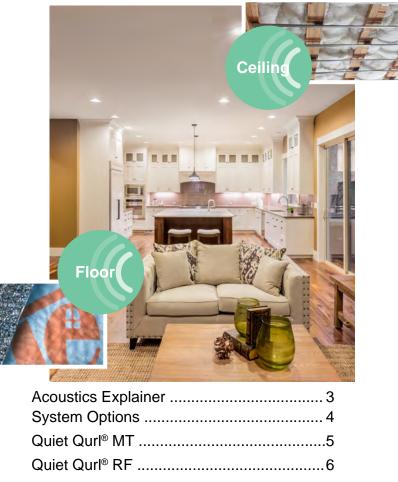
creating comfortable spaces with SOUND in mind





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Acoustic Product Guide From Keene Building Products



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Acoustics Explainer

Learning about Noise

Noise control in multi-family housing, especially in wood frame construction, has been a challenge for years.

- Noise complaints are the second most litigated issue in multi-family construction today.
- Low frequency noise, or the thudding of footfall is the biggest complaint.

Two types of sounds that are measured:

- Airborne (music and voices). Measured by STC (Sound Transmission Class).
- Impact (objects dropping and footfall). Measured by IIC (Impact Insulation Class).

STC or Sound Transmission Class

- A 50 STC rating is the minimum code for laboratory tests and 45 F-STC for field testing
- Predominantly controlled by adding MASS to the system as well as properly sealing all air-leakages
- Applicable in both walls and floor-ceiling assemblies

IIC or Impact Insulation Class

- A 50 IIC rating is the mimimum code required for laboratory test and 45 F-IIC for field testing
- Increased ISOLATION is the key factor in increasing IIC
- This is typically done using a combination of sound mats, resilient channels and/or isolation clips

Quiet Qurl Sound Mats Are a Three-Dimensional Entangled Net

Plastic:

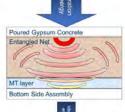
Reduces the contact with the structural subfloor by 90%.

- Decouples vibration
- Reduces heat and pressure buildup

Critical functions of an entangled net:

Impact Noise Creates:

- Vibration
- Heat
- + Pressure Build Up









System Options

Thickness & Fabric Matter

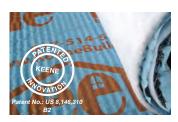
Vibrations travel through connections. By limiting direct connections (such as between the finished floor and the framing assembly) we can effectively disrupt the path for noise to pass through our floors and walls. Quiet Qurl® is the perfect solution to this troublesome issue. Keene Building Products is raising the bar with Quiet Qurl's product line by offering solutions in different thicknesses and with enhanced fabric options for your performance needs. All products are designed for use with underlayments such as gypsum concrete and lightweight concrete.

Quiet Qurl® systems are available from 0.125" to 0.75" with fabric options including:



Muffling Technology (MT)

- Available in all thicknesses.
- · Highly compressible cotton-like material
- Enhances decibels that pass through sound mat by 3 to 5 IIC points
- Load of gypsum concrete compresses the MT into the larger filaments of the sound mat
- No additional thickness to Quiet **Qurl**®





Reinforced Fabric (RF)

- Available in all thicknesses.
- Used when additional reinforcement is needed.
- A reinforced fabric is laminated. to the surface increasing tensile strength of gypsum concrete.



Quiet Qurl® MT

Muffling Technology Enhancement

Muffling Technology or "MT" uses a high loft fabric that weighs very little and is easily compressible with little pressure. When loaded with an underlayment such as gypsum concrete in a sound control application, the sound performance is dramatically enhanced.

Quiet Qurl® MT Fabric

- MT fabric imbeds itself into the entangled net when compressed
- Helps reduce pressure wave buildup from impact sound
- Enhances IIC rating of Quiet Qurl by 3 to 5 points



Pouring Gypsum Concrete over Quiet Qurl

Refer to the chart below for the appropriate thickness of gypsum concrete. Different versions of Quiet Qurl require different thicknesses of **gypsum concretes**:

Versions of Quiet Qurl	Standard M	Т
QUIET QURL 013	0.75"	0.75"
QUIET QURL 025	1.0"	1.0"
QUIET QURL 040	1.0"	1.25"
QUIET QURL 075	1.5"	1.5"

Applications

- ✓ Multi-family wood frame and concrete construction
- ✓ For high-end results in a nominal 0.25" sound mat
- ✓ Works with gypsum underlayments from 0.75" thickness and greater

Benefits

- ✓ Performance like 0.75" thick Quiet Qurl in a 0.25" thick mat
- ✓ Cotton like MT layer acts to "Muffle" noise
- ✓ Performs from 125 Hz to 3150 Hz
- ✓ Up to 5 IIC point enhancement





Quiet Qurl® RF

Reinforced Fabric

Quiet Qurl® RF Fabric

- Available on all versions of the standard Quiet Qurl® product.
- Designed for use when the gypsum concrete pour is not to standard thickness (or when additional reinforcement is needed).
- Matches a reinforced fabric and scrim, which are bonded together, in combination with the standard "entangled net" core material.
- A reinforced fabric is laminated to the surface of an open mesh reinforcing scrim to enhance bonding of the gypsum or lightweight concrete.

Applications

- Multi-family construction: apartments and condominiums
- Radiant-heated flooring when poured with gypsum or lightweight concrete
- Compatible with hard surfaces: stone, tile, vinyl and hardwood
- With topping layers, such as gypsum concrete, lightweight concrete, mortar beds and plywood. At greatly reduced thicknesses

Pouring Gypsum Concrete over Quiet Qurl®

Refer to the chart below for the appropriate thickness of gypsum concrete. Different Versions of Quiet Qurl® require different thicknesses of **gypsum concretes**:

Versions of Quiet Qurl®	Standard RF	•
QUIET QURL 013	0.75"	0.75"
QUIET QURL 025	1.0"	0.75"
QUIET QURL 040	1.0"	1.0"
QUIET QURL 075	1.5"	1.5"

Benefits

- Best performing product in wood frame construction when compared to solid mats
- Provides the thinnest underlayment thickness available on the market for wood frame
- ✓ A Class A fire-rated product
- ✓ Passes a Robinson Wheel Test with the following minimum thicknesses: 0.75" with QQ 025, 1.0" with QQ 040, and 1.5" with QQ 075.









Multi-Family Underlayments

from Dependable, LLC

Dependable's GSL® multi-family line provides a one source system for sound control and gypsum underlayments. Dependable's variety of gypsum self-levelers (GSL) and Keene Building Product's Quiet Qurl® come together providing a floor ready for covering while meeting or exceeding flooring and sound codes. All GSL Products are UL Approved. Dependable provides durability, luxury, and comfort in new multi-family construction.



GSL[®] K2.6 PSI Range:

2,000 - 3,500

A standard gypsum underlayment for wood frame and precast concrete construction



GSL®M3.4

PSI Range: 3,000 - 4,500

A premium high strength gypsum for renovations and high traffic projects



GSL[®] RH

PSI Range 2,200 - 3,500

Gypsum cement formulated for radiant floor heating applications

GSL[®] ALL PURPOSE SEALER

Use with GSL products to enhance the bond between the underlayment and finished floor covering

GSL® PRIMER

Use with GSL products to enhance the bond between the underlayment and various substrates

<u>CONSOLICRETE</u>[™]_

A two-part epoxy designed to repair damaged substrates

Please contact us at 877-514-5336 or info@dependable.us so our technical team can help determine which product most adequately fits your projects needs.









Noise Control Products

	from Keene Building Products									
4		Thickness	Roll Length	Area						
(Mat Thickness 0.125 Inche Quiet Qurl 013 Quiet Qurl 013 MT Quiet Qurl 013 RF Quiet Qurl 013 RF MT	s / 3.0 mm 0.75 inch 0.75 inch 0.75 inch 0.75 inch	100 ft. 100 ft. 100 ft. 100 ft.	400 sq. ft. 400 sq. ft. 400 sq. ft. 400 sq. ft.						
((Mat Thickness 0.25 Inches	/ 6.0 mm								
	Quiet Qurl 025 Quiet Qurl 025 MT Quiet Qurl 025 RF Quiet Qurl 025 RF MT	1.0 inch 1.0 inch 0.75 inch 1.0 inch	100 ft. 50 ft. 100 ft. 50 ft.	400 sq. ft. 200 sq. ft. 400 sq. ft. 200 sq. ft.						
((Mat Thickness 0.40 Inches	/ 10.0 mm								
	Quiet Qurl 040 Quiet Qurl 040 MT Quiet Qurl 040 RF Quiet Qurl 040 RF MT	1.0 inch 1.25 inch 1.0 inch 1.0 inch	100 ft. 50 ft. 100 ft 50 ft.	400 sq. ft. 200 sq. ft. 400 sq. ft. 200 sq. ft.						
((Mat Thickness 0.75 Inches	/ 19.0 mm								
	Quiet Qurl 075 Quiet Qurl 075 MT Quiet Qurl 075 RF Quiet Qurl 075 RF MT	1.5 inch 1.5 inch 1.5 inch 1.5 inch	50 ft. 50 ft. 50 ft. 50 ft.	200 sq. ft. 200 sq. ft. 200 sq. ft. 200 sq. ft.						
((Additional Products	Product Thicknes	s Length	Area						
	Quiet Qurl Reinforcement RWT Quiet Qurl Perimeter Isolation 2 Quiet Qurl Perimeter Isolation 2 Quiet Qurl Perimeter Isolation 3 with EASY-FOLD QQ Step Soft 2 mm QQ Step Soft 5 mm QQ Step Soft 6 mm QQ Step Soft 8 mm QQ Step Soft 10 mm Space Assurance Cylent Assurance Clip	0.25 in./6.0 mm 0.125 in./3.0 mm	75 ft. 250 ft. 550 ft. 550 ft. 55 ft. 25 ft. 20 ft. 20 ft. 100 ft.	300 sq. ft. 62.5 sq. ft. 183.3 sq. ft. 183.3 sq. ft. 200 sq. ft. 100 sq. ft. 100 sq. ft. 80 sq. ft. 80 sq. ft. 25 sq. ft.						
				2000						



Sound Test Results

Quiet Qurl® & GSL® Products

OPEN WEB Assemblies



Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number	
						Bare	53		100236043CRT-001	
Quiet Qurl 013	3/4"	16"	3 1/2" batt	16" o.c.	1 layer	Ceramic Tile		56	100236043CRT-001	
Quiet Quii 013	314	10	3 Ir2 Datt	16 0.0.	riagei	Eng. Wood		56	100236043CRT-001	
						Vinyl		53	100236043CRT-001	
				16" o.c. w/ Cylent		Bare	60	57	H7706.01-113-11-R0	
			3 1/2" batt	Assurance Clip	1 layer	Eng. Wood	60	64	H7706.04-113-11-R	
				Assurance Cilp		Vinyl	60	62	H7706.03-113-11-R	
	3/4"	18"				Bare	55	53	101937109CRT-002	
			E-II Oh	16" o.c.	Alexandria de la constanta de	Eng. Wood		56	101937109CRT-002	
			Full Cavity	16 O.C.	1 layer	Viny lw/Pad		59	101937109CRT-001	
Quiet Qurl 013 MT						Vinul		56	101937109CRT-001	
	7/8"	18"	3 1/2" batt	16" o.c.	1 layer	Bare Ceramic Tile	55	52 54	100700282CRT-00 /100700282CRT-00 100700282CRT-00	
						Eng. Wood		56	100700282CRT-00	
						Vinyl		53	100700282CRT-00	
						Bare	54	51	3130401CRT-002	
Quiet Qurl 025	t"	18"	3 1/2" batt	24" o.c.	1 layer	Ceramic Tile		53	3130401CRT-002	
quiet quii oco	'	10	O II L DUIX	24 0.0.	riagei	Eng. Wood		54	3130401CRT-002	
						Vinyl		53	3130401CRT-002	
						Bare	61	58		
			6" batt	16" o.c.	2 layers	Eng. Wood		62	F09-1104	
						Vinyl		61		
						Bare	62	56	J4155.00A	
	r"					Vinyl	62	57	J4155.01	
Quiet Qurl 025 MT				3 1/2" batt	16" o.c.	1 layer	LYT	62	56	J4155.02
		18"				Eng. Wood	62	56	J4155.03	
						Ceramic Tile	62	58	J4155.05	
						Bare	62	58	J4155.00B	
				40% and a College		Vinul	62	60	J4155.06	
			3 1/2" batt	16" o.c. w/ Cylent	1 layer	LYT	62	61	J4155.07	
				Assurance Clip	-	Eng. Wood	62	61	J4155.08	
						Ceramio Tile	62	62	J4155.10	
						Bare	58	52	11132.01	
						Vinul/Pad	58	58	11132.02	
				16" o.c.	1 layer	Eng. Wood	57	57	l1132.03	
					-	LVT / Pad	58	58	11132.04	
Quiet Qurl 040	11/4"	18"	3 1/2" batt			Ceramic Tile	58	55	11132.05	
						Bare	60	56	11132.06	
				16" o.c. w/ Cylent	Alexandria de la constanta de	Vinyl/Pad	59	62	11132.07	
				Assurance Clip	1 layer	Eng. Wood	60	62	11132.08	
			1			LVT / Pad	60	64	11132.09	
Quiet Qurl 040 MT	f"	16"	3 1/2" batt	16" o.c.	1 layer	Bare		58	3158385CRT-001	
					-			FO		
						Bare	55	59		
Quiet Qurl 075	11/2"	18"	6" batt	16" o.c.	1 layer	Ceramic Tile		60		
	· ·				•	Eng. Wood		61		
			ı			Vingl		60	1	

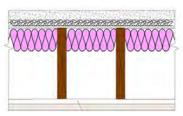
Open Veb UL L528, L529, L534, L542, L546, L550, L556, L558, L562, L563, L574, L576, L577, L579, L581, L583, L585, L586, L587, L592, M500, M501, M50 Designs (Equivalent to L521), M508, M510



Sound Test Results

Quiet Qurl® & GSL® Products

NOMINAL WOOD JOIST Assemblies



Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number	
						Bare	57		100302175CRT-001b	
Quiet Qurl 013	3/4"	10"	3 1/2" batt	16" o.c.	1 layer	Ceramic Tile		50		
Quiet Qui 1013	5/4	10	3 1/2 Datt	10 0.0.	1 layer	Eng. Wood		55	100302175CRT-001a	
						Vinyl		51		
			3 1/2"				LVT	60	52	J4551.05
		10"		16" o.c.	1 layer	Ceramic Tile		52	3163170CRT-001b	
		L					Eng. Wood		55	3103170011-0010
Quiet Qurl 025	1"					Bare	54		3147950CRT-001b	
			12"	3 1/2"	24" o.c.	1 layer	Ceramic Tile		52	
		12	3 1/2	24 0.0.	1 layer	Eng. Wood		54	3147950CRT-001a	
						Vinyl		51		
						Bare	56	53	100302175CRT-002c	
Quiet Qurl 025 MT	1"	10"	3 1/2" batt	16" o.c.	1 layer	Ceramic Tile		57	3163170CRT-001a	
Quiet Qui 1023 Wi 1	1	10	3 1/2 Datt	10 0.0.	1 layer	Eng. Wood		57	3163170CRT-001a	
						Vinyl		53	100302175CRT-001c	
0.1.1.01.040.447	1 1 / 4 !!	10"	2 1/2" hatt	16"	1 laves	Bare	57		100340878CRT-002b	
Quiet Qurl 040 MT	1 1/4"	10	3 1/2" batt	16" o.c.	1 layer	Vinyl		54	100340878CRT-001b	

L006, L201, L202, L208, L209, L210, L211, L212, L501, L502, L503, L504, L505, L506, L507, L508, L509, L510, L511, L512, L513, L514, L515, L516, UL Designs L517, L519, L520, L522, L523, L525, L526, L532, L535, L536, L537, L539, L540, L541, L545, L557, L569, L588, L593, L593, M504, M514, M51: M518, M519, M528, M531, M538

WOOD RETROFIT

Assemblies

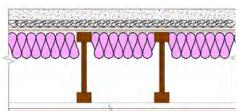


Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number		
Quiet Qurl 025	1"	14"	None	None	None	Vinyl	51	52			
Quiet Qurl 025 MT						Bare	58	47			
	2"	12"	None	None	None	Ceramic Tile		47	F10-413		
	2	12	None	None	E	Eng. Wood		50	F10-415		
						Vinyl		50			
	2"	2" 12'						Bare	58	52	
Quiet Qurl 075			12"	None	None	None None	Ceramic Tile		52	F10-413	
Quiet Qui 1075	2	12	None	None	None None	Eng. Wood		55	F10*413		
						Vinyl		55			
						Bare	60	56			
Quiet Qurl 075 MT	2"	42"				Ceramic Tile		58	540 443		
Quiet Quri 0/5 IVI	2"	2" 12"	12"	12" None	None	None None	Eng. Wood		59	F10-413	
						Vinyl		59			



Quiet Qurl® & GSL® Products

I JOIST Assemblies



Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number					
						Ceramic	58	56	100302175CRT-001a					
Quiet Qurl 013	3/4"	11 7/8"	3 1/2" batt	16" o.c.	2 layers	Eng. Wood	58	58	100302175CRT-001a					
						Vinyl	58	52	100302175CRT-001a					
						Ceramic	53	54						
Quiet Qurl 025	1"				1 layer	Eng. Wood	53	57	3123796CRT-001b					
		11 7/8"	3 1/2" batt	16" o.c.		Vinyl	53	53						
					2 layers	LVT	61	53	J4551.04					
						Bare		54						
	1 1/4"	11 7/8"	3 1/2" batt	12" o.c.	2 layers	Ceramic Tile		56	100430978CRT-001g					
Quiet Qurl 025 MT	1 1/4	11 //8"	3 1/2" batt		2 layers	Eng. Wood		59	100430978CK1-001g					
						Vinyl		56						
											Bare		53	3103841CRT-001a
	1 1/2"	14"	5 1/2" batt	24" o.c.	2layers	Ceramic Tile		54	3103841CRT-001a					
Quiet Qurl 040	11/2	14	3 1/2 batt		Zidyers	Eng. Wood		56	3103841CRT-001a					
Quiet Qui i 040						Vinyl		54	3103841CRT-001a					
	1 1/4"	11 7/8"	3 1/2"	16" o.c.	2 layers	LVT	61	53	J4551.02					
						Bare	57	60						
Quiet Qurl 040 MT	1"	11 7/8"	3 1/2" batt	16" o.c.	2layers	Ceramic Tile		59						
Quiet Qurl 040 MT	1"	11 //8"	5 1/2" Datt	10 O.C.	ziayers	Eng. Wood		61						
						Vinyl		61						

CONCRETE Assemblies

Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number	
Quiet Qurl 013	3/4"	9"	None	None	None	Bare	55	48	F18-0375	
Quiet Qurl 025	1"	6"	None	None	None	Vinyl		54	3033285-003	
Quiet Quri 025	1	U	3 1/2" batt	16" o.c.	1 layer	Vinyl		63	3033285-002	
	1"			None	None	None	Vinyl		53	
		6"	None	None	None	Eng. Wood		55	3033285-002	
Quiet Qurl 040		· ·	3 1/2" batt	16" o.c.	1 layer	Vinyl		64	3033203-002	
			3 1/2 batt		1 layer	Eng. Wood		68		
	2 3/4"	8"	None	None	None	Bare	63	56	6853.01-202-10	
UL Designs	J917, J919, J920, J924,	J927, J931,	J957, J991, J994							



Sound Test Results

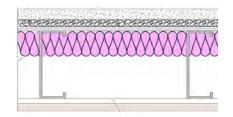
Quiet Qurl® & GSL® Products

CLT System Assemblies



Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number
5mm Quiet Qurl Step Soft Over Quiet Qurl 040 MT	2.5" GSL M3.4	5-Ply CLT	None	None	None	5.5mm LVT		53	K3686.06
5mm Quiet Qurl Step Soft Over Quiet Qurl 075 MT	2.5" GSL M3.4	5-Ply CLT	None	None	None	5.5mm LVT		56	K3686.03
Quiet Qurl 075 MT	2" GSL M3.4	5-Ply CLT	None	None	None	5.5mm LVT		54	K3686.02
KeedeRoll MT	1" Dependable Platform L2	5-Ply CLT	None	None	None	5.5mm LVT		58	K3686.04
Quiet Qurl 040MT	2" GSL M3.4								
KeedeRoll MT	1" Dependable Platform L2	E Dly CIT	None	None	None	5.5mm LVT		60	K3686.01
Quiet Qurl 040MT	2" GSL M3.4	5-Ply CLT	None	None	None	5.5mill LVI		60	N3000.01

STEEL JOIST Assemblies



Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number
		#8 Trade-	3 1/2" batt	12" o.c.	12" o.c 1 layer	Bare	55	53	
0		Ready				Ceramic Tile		56	40.4C07CDT 003 -
Quiet Qurl 025 MT	1 1/4"					Eng. Wood		57	184607CRT-002c
		Joist				Vinyl		57	
III Designs	G553 G561 G565 G5	77 6578 6	579 6580 6581 6	582 1524 1527 1543	15/19 1551 1552 1	559 1560 1564 15	565 156	2 1572	M513 M536



KeedeRoII™ MT

KeedeRoll™ MT combines our patented Muffling Technology with our uncoupling KEEDE technology to create a quiet yet durable subfloor. Specifically designed for ceramic tile, this product contains all the benefits of both an uncoupling mat and a sound mat.



KeedeRoII[™] 100

This uncoupling mat provides a fast, durable and cost effective solution for tile installation. The technology works by absorbing subfloor movements and reinforcing mortar; while the fabric allows for shearing movement to take place by separating the subfloor from the tile or natural stone.



KeedeRoll™ 300

This product offers the same uncoupling benefits of KeedeRoll™ 100, but with added moisture protection. The specially designed fabric is completely water resistant, forming a barrier between the tile and your subfloor.





6-inch

Concrete Slab with

Topical Sound Mats

Quiet Qurl Step Soft™



rubber flooring underlayment designed to promote guiet living and improve sound ratings.

Sound Tests: ASTM E492 and ASTM E2179

QQ Step Soft™ is a sound deadening recycled

Offered in 2-15mm

Ceramic Tiles over QQ Step Soft™ 5mm

thickness

- · Effective impact noise reduction
- · Crack isolation capabilities

Ceramic Tiles over QQ Step Soft™ 5mm

 Engineered hardness · Increased dynamic-



to-static load ratio Recycled material



Low VOC content

Ceramic Tiles over QQ Step Soft™ 5mm

High density



- Low compressibility 95% + recycled
- material LEED eligible

QQ Step Soft's rubber material provides a resilient layer within the flooring assembly for reducing vibration noise.

Click Laminate over QQ Step Soft™ 5mm



QQ Step Soft[™] is a critical component in meeting International **Building Code** requirements for ceiling/ floor noise reduction performance.

QQ Step Soft™ passes the Federal Flammability Standard, meets CHPS standards for VOCs, and passes the ASTM C627 reliability standard for residential use.



Cylent Assurance Clip™



Ceiling isolation is as important to noise control as the floor isolation system. Unfortunately, the bottom side remains a weak link. Acousticians and architects design ceiling systems properly, but many problems occur during installation.

Cylent Assurance™ Clip and Space

Assurance™ are cost-effective products that take the difficulty out of ceiling isolation.

Superior Performance in Wood Frame Construction: Cylent Assurance™ Clip is

a resilient channel vibration isolation clip, engineered to significantly reduce low frequency noise transfer in ceiling/wall assemblies used in modern multi-family construction. It can work with any type of resilient channel. All other vibration isolation clips available on the market today are limited in their application. Only Keene offers a vibration isolation clip that can work with any type of standard or generic resilient channel.

Cylent Assurance™ Clips

- ✓ US Patent issued
- Tested ceiling & wall assemblies
- Designed for use with any RC-1 channel
- Ceiling joists: I-joist, open web truss, nominal lumber, metal joists, & metal studs
- Most cost-effective option on the market
- Enhances the acoustic performance of ceilings & walls
- ✓ Luxury system performance of 60+ IIC & STC
- ✓ Fast & easy installation









"Kick out" Plate to Prevent Short-Circuits



The KEENE Complete Acoustic System

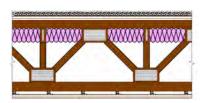
- 3/4" GSL® K2.6
- Quiet Qurl® 013 MT
- Cylent Assurance™ Clip
- Space Assurance[™]

Floor Finish	STC	IIC
Vinyl Plank	60	62
Engineered Wood	60	64



Acoustics TM

OPEN WEB Assemblies



Keene Sound Mat	Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	STC	IIC	Test Number
	3/4"	18"	3 1/2" batt	16" o.c. w/	1 layer	Bare	60	57	H7706.01-113-11-R0
Quiet Qurl 013 MT				Cylent		Eng. Wood	60	64	H7706.04-113-11-R0
				Assurance Clip		Vinyl	60	62	H7706.03-113-11-R0
	1"	18"	3 1/2" batt	16" o.c. w/ Cylent Assurance Clip	1 layer	Bare	62	58	J4155.00B
]						Vinyl	62	60	J4155.06
Quiet Qurl 025 MT						LVT	62	61	J4155.07
						Eng. Wood	62	61	J4155.08
						Ceramic Tile	62	62	J4155.10
Quiet Qurl 040	1 1/4"	18"	3 1/2" batt	16" o.c. w/ Cylent Assurance Clip	1 layer	Bare	60	56	I1132.01
						Vinyl / Pad	59	62	11132.02
						Eng. Wood	60	62	11132.03
				Assurance crip		LVT / Pad	60	64	I1132.04

UL Designs: L510, L518, L523, L530, L533, L534, L535, L538, L546, L547, L550, L556, L558, L563, L569, L570, L574, L576, L577, L579, L585, L587, L589, L590, L592 L593, L598, M500, M501, M502, and M503

Various Assemblies Field Testing

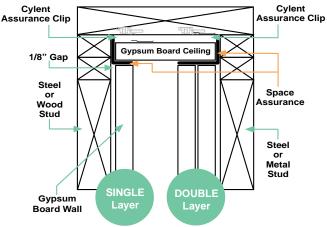
Keene Sound Mat	GSL Gypsum Concrete Depth	Framing Depth	Insulation Type	RC Channel / Cylent Assurance Clip	Layer(s) of Gypsum Board	Floor Covering Type	NNIC	NISR	TIK ₂	NHIR*	ASTC	AHC	Test Number
3/4" Entangled Net Sound Mat	1-1/2"	16" TJI	Full Cavity	RCSD / 12" o.c. w/ Cylent	2 layer / 5/8"	Vinyl	63	68	76	75	63	61	F19-1765 / F19-1768
Quiet Qurl 013 MT	3/4"	16" Open Web	3 1/2" batt	Generic RC 16" o.c. w/ Cylent Assurance Clip	1 layer 5/8"	VinyI					57	58	Available Upon Request
Quiet Quri 013 MT	3/4"	18" Open Web	3 1/2" batt	Generic RC 16" o.c. w/ Cylent Assurance Clip	1 layer 5/8"	Vinyl			64	59	59	54	F19-2240 / F19-2241
3/4" Entangled Net Sound Mat	1-1/2*	Til	6" batt	Cemco RC-1 RC Channel @ 16"	2 layer / 5/6"	Bare	55	戦	32	50			Before Cylent Assurance Clips F19-0270 / F19-0271
				Cemco RC-1 RC Channel @ 16" w/Cylent Assurance Clip	2 layer / 5/8"	Bare	58	35	61	55			After Cylent Assurance Clips F19-0367 / F19-0368
Quiet Qurl 040	1-1/8"	2" x 12" Solid Wood Joist	13" bett	RC Channel @ 12" w/ Cylent Assurance Clip	1 layer 5/8"	LVP	60	61	61	69			F19-2605 / F19-2608

DIEGO WH SKI TOVE Ceiling Acoustics

Space Assurance™



Space Assurance[™] is a ceiling perimeter isolation that is made up of a UL approved, flexible, flame resistant polyester fabric. It is used as a fastener line, virtually assuring the proper detail between the wall and ceiling eliminating one of the most common paths for flanking noise in multi-family construction.



Space Assurance™

- Proactively creates space between gypsum ceilings and walls
- Eliminates need for acoustical caulk at wall ceiling line
- Simple to inspect for proper spacing
- Eliminates flanking paths for noise
- Quick installation that saves time and money
- Only UL-listed joint assembly with a gap









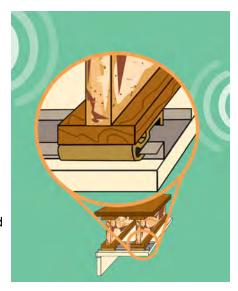


One of the biggest issues with RC Channels is short circuiting of the channels into the framing assembly, by using too long of a screw. RC Assurance™ Eliminates short circuits.

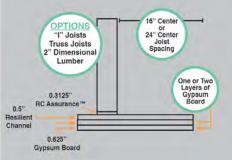
RC Assurance™

Acoustical Assurance

- Enables resilient channel to be installed correctly
- With the correct installation, resilient channel can perform at levels equal to more expensive isolator clip assemblies
- UL-listed and approved
- Cannot be penetrated
- Push-down flange that prevents channel "ride"
- Intersection of the channel and joist is protected
- RC Assurance™ acts as an impenetrable washer that puts extra space between the resilient channel and the joist
- For the developer, it is assurance that the RC channels are installed properly



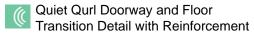


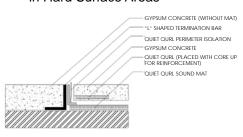


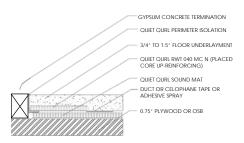
KEENE IDEAS®

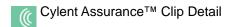
Transition Details

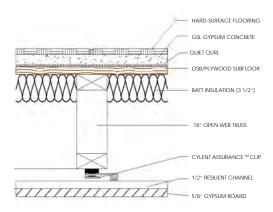
Transition to Gypsum Concrete without mat Quiet Qurl Installation in Hard Surface Areas











For Complete Transition Details please refer to Keene Building Product's KEENE IDEAS information sheets.

