



Relief™ QW-620
 Serenity™ QW-630
 Solitude™ QW-640

Soundproof wood panel with shear strength of standard plywood.

The quietest wood on the market.

Commercial and Residential

Engineered soundproof wood panels to damp noise and vibration in new building construction and renovation. Ideal for homes, condos, apartments, offices, schools, hospitals, factories and warehouses. Lab tested.

The patent-pending QuietWood line significantly reduces unwanted noise and sounds entering from exterior or adjacent room sources. QuietWood is a multi-layer engineered panel ideal for use in existing or new construction. It can be used in place of standard plywood oriented strand board (OSB) or MDF. With the highest STC rating of any wood product, walls, floors, and roofs using QuietWood will exceed your expectations in producing a quiet environment.

The Benefits of QuietWood

- Can be used in standard construction with excellent results
- Ready-to-use in standard 4' x 8' sheets
- Can easily be installed by homeowner or contractor
- Quickly solves difficult noise problems between floors or rooms

Use QuietWood Wherever Noise is Transmitted

QuietWood works by significantly increasing the sound isolation between rooms

- To quiet a noisy wall
- To quiet a noisy floor
- To quiet a noisy ceiling

Some Favorite Applications

- Noisy apartment/condo neighbors (easy to use in after-market application)
- Interior wall facing a highway or railroad line
- Isolate noisy machinery
- Soundproof room for a home theatre, jam room, dance studio or recording studio
- Sound-proof a workshop garage
- Sound-proof a machine room, e.g. elevator, air-conditioner, compressor
- Isolate noise from an HVAC unit or noisy appliance (from the rest of the house)
- QuietWood behind drywall in a wall, i.e. can be finished to look like a regular room
- Doors

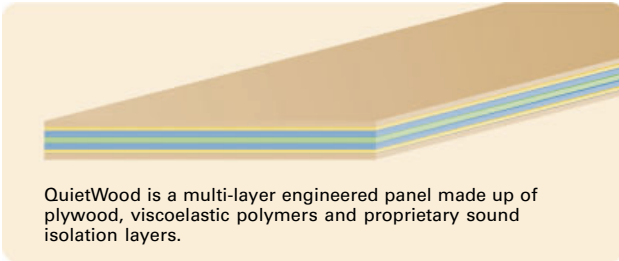
System	Relief™	Serenity™	Solitude™
Product	QW-620	QW-630	QW-640
Key Benefits	Lowest cost High STC	Thin, lightweight Higher STC	Superb low frequency Highest STC
Thickness	1-1/4"	5/8"	1-3/8"
Tolerances	Min: 1.155", Max: 1.280"	Min: 0.540", Max: 0.630"	Min: 1.285", Max: 1.415"
Weight (4'x 8' panel)	3.2 lbs/ft ² , 102 lbs	2.3 lbs/ft ² , 75 lbs	4.4 lbs/ft ² , 141 lbs
STC Rating*	49-55	51-62	54-68

* Testing at Western Electro Acoustic Laboratories, Transmission Loss values using simple standard 2x4 single wood stud construction with R-13 batt. When used on metal studs with QuietCoat, add 3 STC rating points.

QuietWood®

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QuietWood Construction



QuietWood is a multi-layer engineered panel made up of plywood, viscoelastic polymers and proprietary sound isolation layers.

QuietWood QW-620

QW-620 is a multi-layer engineered panel available in a standard 4'x8' panel, weighs 102 lbs and is 1-1/4" thick. It is ready to use, and can be used in place of standard plywood or OSB, or above ceilings, below floors, or behind walls (finish with an outer layer of drywall). Walls and floors using QW-620 can be easily constructed with final STC ratings of 49–55.

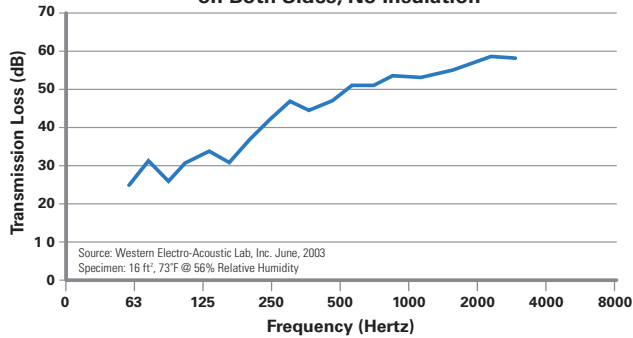
QuietWood QW-630

QW-630 is a 5/8" thick multi-layer engineered panel. It's available in a standard 4'x8' sheet, weighs 75 lbs and is 5/8" thick. It is lighter, thinner and less expensive, yet maintains superior performance in all applications. It is ready to use, and can be used in place of standard plywood or OSB, or above ceilings, below floors, or behind walls (finish with an outer layer of drywall). QW-630 achieves STC ratings of 51–62.

QuietWood QW-640

QW-640 is a multi-layer engineered panel available in a standard 4'x8' panel, weighs 141 lbs and is 1-3/8" thick. It is ready to use, and can be used in place of standard plywood or OSB, or above ceilings, below floors, or behind walls (finish with an outer layer of drywall). This product has one of the highest STC ratings (amount of sound isolation) of any interior wood system in the world. Using QW-640 with typical construction, walls and floors can be easily constructed with finished STC ratings up to 68, depending on construction techniques.

Standard 2x4 Construction with QuietWood QW-640 on Both Sides, No Insulation



Source: Western Electro-Acoustic Lab, Inc. June, 2003
Specimen: 16 ft', 73°F @ 56% Relative Humidity

1/3 Oct Bnd Cntr Freq	63	80	100	125	160	200	250	315	400	500
TL in dB	25	31	26	31	34	31	36	42	47	45
95% Confidence in dB deficiencies	1.42	1.92	2.07	1.47	0.89	0.76	0.80	0.52	0.36	0.38

1/3 Oct Bnd Cntr Freq	630	800	1000	1250	1600	2000	2500	3150	4000	5000
TL in dB	47	51	51	53	53	54	55	57	59	58
95% Confidence in dB deficiencies	0.29	0.44	0.38	0.39	0.36	0.56	0.55	0.31	0.32	0.50

Comparison of Standard Techniques

	STC*	100dB stereo playing in adjacent room sounds like
Baseline		
5/8" Plywood	35	65dB
Soundboard	42	58dB
QuietWood QW-620	51	49dB
QuietWood QW-630	53	47dB
QuietWood QW-640	56	44dB

*in standard wood stud construction

QuietWood Product Numbers

Model	Grade	Size	Complete
QW-620	AC	4x8	QW620AC4X8
QW-620	CC	4x8	QW620CC4X8
QW-620	MDF	4x8	QW620MDF4X8
QW-630	AC	4x8	QW630AC4X8
QW-630	CC	4x8	QW630CC4X8
QW-630	MDF	4x8	QW630MDF4X8
QW-640	AC	4x8	QW640AC4X8
QW-640	CC	4x8	QW640CC4X8
QW-640	MDF	4x8	QW640MDF4X8



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