

**Regupol®-QT**  
IMPACT SOUND INSULATION

**BARD'S CROSSING, Rosemount, MN**



## IMPACT SOUND INSULATION

### THE NEED:

Sound control between living spaces for mid-range, senior-targeted condominiums.

### THE CHALLENGE:

Achieving acceptable sound ratings under wood and ceramic floor covering while at the same time maintaining budget constraints.

### THE SOLUTION:

6mm Regupol-QTrbm and 5mm Regupol-QTscu offered exceptional sound reduction levels under multiple surfaces, plus cost effective ease of installation.

Retirement communities by their very nature are expected to be quiet places. So when Wensmann Homes, the builders of Bard's Crossing, planned an 83,000 sq. ft. retirement community condominium in a suburb of St. Paul, Minnesota, they designed the floor/ceiling assembly to more than meet the expectations of potential residents.

The floor/ceiling design utilized two layers of Type "X" gypsum board, resilient channel, 1" of Hacker FIRM-FILL® 2010 gypsum concrete, and a sandwich configuration of Regupol®-QTrbm and Regupol®-QTscu resilient soundproofing mat. Mike Vallez, project manager of design and construction for Wensmann Homes, explains the choice of sound insulation. "Regupol-QTrbm produced the highest IIC ratings of anything we've used. We were extremely satisfied with the results." The open web assembly (*see assembly drawing on reverse*) produced IIC field ratings of 64 with wood, 55 with ceramic tile, and 56 with vinyl. Vallez had worked on four previous projects with Wensmann Homes, and says the Regupol-QTrbm sound control results were by far the best. "When people are buying condos, they don't want to hear the neighbors walking all over the place. So we made an investment in sound control," says Vallez.

Scott Ryan, a licensed applicator of Hacker Industries, Inc., had similar things to say about Regupol-QTrbm. The gypsum concrete and underlayment contractor installed Regupol-QTrbm for five to ten cents less than other materials because of Regupol's ease of installation. Besides saving money on labor costs, Ryan also liked the way the product performed, noting, "Regupol-QTrbm provides better noise deadening than other sound insulation products."

John LoVerde of Veneklasen Associates, who performed the sound testing on the Bard's Crossing project, is familiar with Regupol-QT and its performance in various assemblies. John encounters Regupol-QT on nearly a fifth of the jobs he tests. LoVerde says, "Designers want the materials they spec to be reliable today, tomorrow and everyday thereafter." He prefers materials like Regupol-QT that have the flexibility to perform at a high level with a variety of assemblies, and under a full range of floor toppings.

In a small corner of Minnesota, Regupol-QT yielded big results—saving money, saving time and achieving some of the highest sound control ratings in multi-story residential housing.



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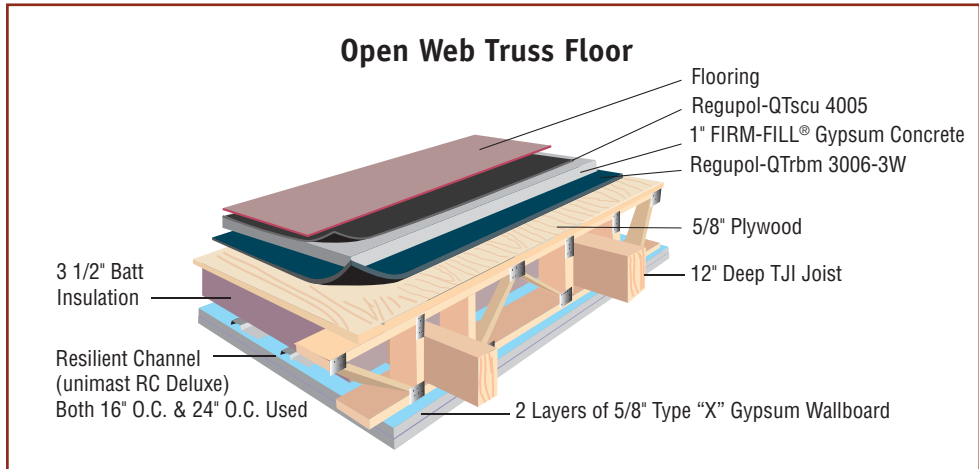
[www.regupolqt.com](http://www.regupolqt.com)

# Regupol-QT

IMPACT SOUND INSULATION

"Designers want the materials they spec to be reliable today, tomorrow and everyday thereafter."

-John LoVerde, Veneklasen Associates



project:  
**Bard's Crossing**

location:  
**Rosemount, MN**

gross square footage:  
**83,000**

owner:  
**Wensmann Homes**

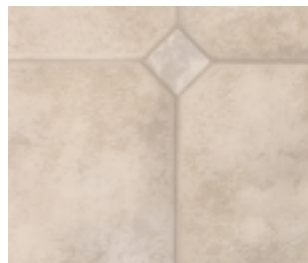
architect:  
**JSSH**

general contractor:  
**Wensmann Homes**

acoustical consultant:  
**Veneklasen Associates**



Overlay of 1" gypsum and wood received field IIC rating of 64



Overlay of 1" gypsum and vinyl received field IIC rating of 56



Overlay of 1" gypsum and ceramic tile received field IIC rating of 55

### Product Technical Data

Property	QTscu 5mm (.200")	QTrbm 6mm (.250")
Form and Dimensions	Roll 48" x 30'	Roll 54" x 30'
Weight/Sq. Ft.	0.75 lbs.	0.64 lbs.
Weight/Roll	97 lbs.	86 lbs.
Compression @100psi (ASTM F36)	25%-35%	40%-50%
Tensile Strength (ASTM D412)	100 psi (min.)	40 psi (min.)
Type A Hardness (ASTM D2240)	45-55 durometer	35-45 durometer
Compression Set B (ASTM D395)	40% (max.)	15%
TCA Robinson Test (ASTM C627)	Light Commercial	Light Commercial

For more information and samples,  
call 1-866-326-5712 or visit [www.regupolqt.com](http://www.regupolqt.com)

**Hacker Industries, Inc.**  
Premier Floor Underlayments and Acoustical Control Products

1-800-642-3455

Regupol-QTrbm 3006-3W is also available from Hacker Industries as Hacker Sound Mat II 1/4"



Regupol-QTrbm patent pending.  
Regupol-QTscu is a patented product.  
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FIRM-FILL is a registered trademark of Hacker Industries, Inc.