

# TECHNICAL DATA

## REGUPOL SONUS CORE 5



The **REGUPOL sonus core 5** is a high-performance acoustical floor underlayment. It greatly reduces footfall noise transmission and impact sound. The **sonus core 5** can be installed under a variety of floor coverings.



### Applications

- › Carpet
- › Carpet Tile
- › Ceramic Tile
- › Engineered Hardwood
- › Hardwood
- › Laminate
- › Rigid Core Click Vinyl (SPC & WPC)
- › Stone Tile



### Materials

- › Polyurethane
- › Styrene-Butadiene Rubber

Form	Thickness	Width	Length	Unit Area	Weight	Unit Weight
Rolls	3/16" (5 mm)	4'	25'	100 ft <sup>2</sup>	0.81 lb/ft <sup>2</sup>	81 lb
Sheets	3/16" (5 mm)	30"	4'	10 ft <sup>2</sup>	0.81 lb/ft <sup>2</sup>	8.1 lb

Property	Result	Standard	Note
Density	49 lb/ft <sup>3</sup> (+/- 4 lb)	ASTM D792	
Hardness	40 – 55	ASTM D2240	A Shore Durometer
Maximum Traffic Load	60 kN/m <sup>2</sup>		
Compressibility	c ≤ 0.5 mm	DIN EN 12431	
Stress-Strain Characteristic at 25% Compression	600 kPa	DIN EN ISO 33386-2	
Elongation at Break	≥ 40%	DIN EN ISO 1798	
Tensile Strength	≥ 0.4 N/mm <sup>2</sup>	DIN EN ISO 1798	
Thermal Conductivity	λ = 0.06 W/(mK)	DIN EN 12667	
Thermal Resistance	R = 0.083 (m <sup>2</sup> K)/W	DIN EN 12667	
Temperature Resistance	0 – 140 °F		
Fire Classification	E	DIN EN 13501-1	
LEED	up to 8 points	USGBC LEED v4.1	see documentation
Recycled Content	94%	ISO 14021	GreenCircle 22-0194
VOC Emission	compliant	CDPH/EHLB V1.1	CA Specification 01350

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Assembly	Rating	Standard	Test Report
Bamboo Flooring, 3/8" <b>REGUPOL sonus core 5, 3/16"</b> OSB, 3/4" Open Web Truss, 18" Fiberglass Insulation, 3-1/2" <b>REGUPOL sonusclip SC100, 1"</b> Hat Channel, 7/8" Gypsum Panel, 5/8" Gypsum Panel, 5/8"	STC 60 IIC 55	ASTM E90 ASTM E492	H6848.04-303-11-R0
Ceramic Tile, 9/32" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 6"	STC 54 IIC 50 $\Delta$ IIC 20	ASTM E90 ASTM E492 ASTM E2179	E1551.04-113-11-R0
Ceramic Tile, 1/4" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 6" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	STC 63 IIC 62	ASTM E90 ASTM E492	E1551.07-113-11-R0
Ceramic Tile, 1/4" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8"	STC 53 IIC 52	ASTM E90 ASTM E492	E1552.04-113-11-R0
Ceramic Tile, 1/4" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	STC 63 IIC 64	ASTM E90 ASTM E492	E1552.06-113-11-R0
Ceramic Tile, 1/4" <b>REGUPOL sonus core 5, 3/16"</b> Gypsum Concrete, 1" OSB, 3/4" 2x10 Joist, 9-1/4" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	STC 57 IIC 53	ASTM E90 ASTM E492	E1550.05-113-11-R0
Ceramic Tile, 5/16" <b>REGUPOL sonus core 5, 3/16"</b> Magnesium Board, 3/4" Steel C-Joist, 10" Fiberglass Insulation, 3-1/2" <b>REGUPOL sonusclip SC100, 1"</b> Hat Channel, 7/8" Gypsum Panel, 5/8" Gypsum Panel, 5/8"	STC 61 IIC 58	ASTM E90 ASTM E492	J8051.12-113-11-R0
Ceramic Tile, 5/16" Screed, 2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	STC 61 IIC 56	ASTM E90 ASTM E492	E9877.03-113-11-R0

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Assembly	Rating	Standard	Test Report
Click Luxury Vinyl Tile, 7/32" (5.5 mm) <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 6"	STC 52 IIC 56 $\Delta$ IIC 24 HIIC 60	ASTM E90 ASTM E492 ASTM E2179 ASTM E3222	R1793.02-113-11-RO
Engineered Hardwood, 1/2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 6" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	IIC 71	ASTM E492	NGC 7011090_R2
Engineered Hardwood, 1/2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	IIC 70	ASTM E492	NGC 7011100_R2
Engineered Hardwood, 1/2" Screed, 2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8" Fiberglass Insulation, 3-1/2" Gypsum Panel, 5/8"	STC 63 IIC 61	ASTM E90 ASTM E492	E9877.02-113-11-RO
Hardwood Flooring, 1/2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 6"	IIC 55 $\Delta$ IIC 25	ASTM E492 ASTM E2179	E1551.02-113-11-RO
Hardwood Flooring, 1/2" <b>REGUPOL sonus core 5, 3/16"</b> Concrete Slab, 8"	IIC 56	ASTM E492	E1552.02-113-11-RO
Luxury Vinyl Plank, 1/4" <b>REGUPOL sonus core 5, 3/16"</b> Magnesium Board, 3/4" Steel C-Joist, 10" Fiberglass Insulation, 3-1/2" <b>REGUPOL sonusclip SC100, 1"</b> Hat Channel, 7/8" Gypsum Panel, 5/8"	STC 58 IIC 55	ASTM E90 ASTM E492	J8051.09-113-11-RO
Porcelain Tile, 5/16" <b>REGUPOL sonus core 5, 3/16"</b> Plywood, 5/16" <b>REGUPOL soundpanel X4, 2-11/16"</b> Concrete Slab, 6"	STC 62 IIC 63	ASTM E90 ASTM E492	H6847.07-113-11-RO
Porcelain Tile, 5/16" <b>REGUPOL sonus core 5, 3/16"</b> Plywood, 1/2" OSB, 3/4" Open Web Truss, 18" <b>REGUPOL sonusclip SC100, 1"</b> Hat Channel, 7/8" Gypsum Panel, 5/8" Gypsum Panel, 5/8"	STC 60 IIC 56	ASTM E90 ASTM E492	H6848.07-303-11-RO

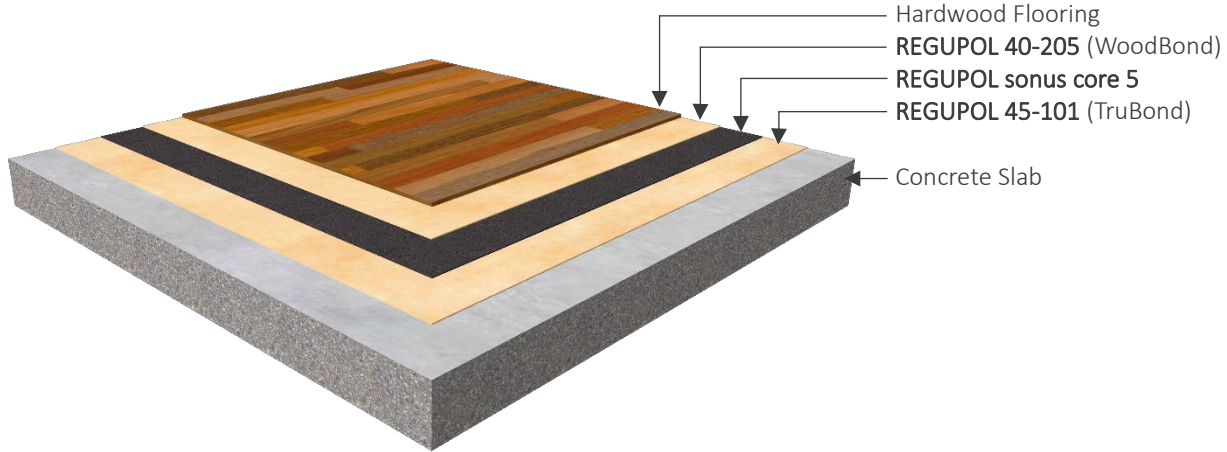
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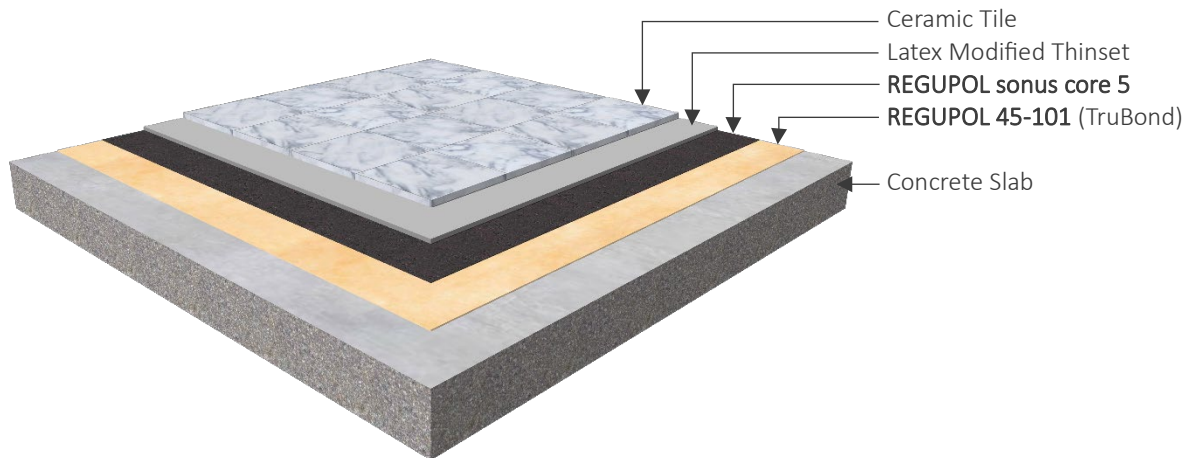
### Example Floor Assembly

Hardwood Flooring



### Example Floor Assembly

Ceramic Tile



### Accessories

REGUPOL perimeter  
isolation strip



REGUPOL 40-205  
(WoodBond)



REGUPOL 45-101  
(TruBond)

