

Rockfon Sonar®

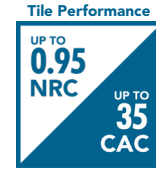
Design Collection

Features & Benefits

- Premium, lightly textured white surface, Rockfon Sonar® tiles achieve ambitious design visions with the widest range of edges and sizes
- Optimal sound absorption with NRC up to 0.95, panel CAC up to 35, and system CAC up to 58
- Class A fire performance with 0 Flame Spread and 0 Smoke Developed ratings per ASTM E84
- Inherently mold and mildew resistant and do not include antimicrobials
- Low particle emission (ISO Class 5, ISO14644-1) for air cleanliness
- Sonar SQ, SLN, SL edges are compliant with the Build America, Buy America Act (BABAA)

Applications

- Suitable for New Build and Renovation
- Open Plan Office
- Private Office Space with Closed Partitions
- Education
- Retail
- Leisure
- Healthcare

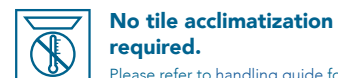
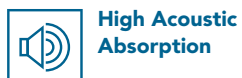
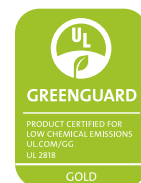


See Table 3

GWP AS LOW AS



4.15 kg CO₂-eq/1m²
0.386 kg CO₂ eq/1ft²



Please refer to [handling guide](#) for details.





Refer to p.4 to explore all Sonar edge types and grid compatibility.

High Performance Factors

Base Material	Stone wool	
Surface	Lightly-textured white	
Fire Performance	Class A Tested to US Standard ASTM E84: Canadian Standard CAN/ULC S102:	Flame Spread Index: 0 Smoke Developed Index: 0 Flame Spread Rating: 10 Smoke Developed Rating: 5
Mold and Mildew Resistance	Inherently Resistant (applies to stone wool substrate and tile surfaces) Tested to ASTM D3273: 10 (Scale of 0 to 10, 10 being highest performing) Tested to ASTM C1338: Pass (Pass or Fail, Stone Wool Tiles Pass)	
Sag Resistance	Won't Sag or Warp Even in 100% Relative Humidity Tested to ASTM C367	
Low VOC	UL GREENGUARD Gold Certified	
Warranty	30-Year Tile Warranty	



Table 1
Sonar Panels

Edge Designation	Item Number	Modular Size (nominal)	NRC	CAC	AC	Fire Class	Mold & Mildew Resistance	Sag Resistance (relative humidity)	Light Reflectance	Cleanroom Class	Embodied Carbon		Low VOC	Recyclable	lbs/ sqft	sqft/ carton
											Per 1m ² (kg CO ₂ - eq)	Per 1ft ² (kg CO ₂ - eq)				
 Square Lay-in	16100	2' x 2' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	64
	16101	2' x 4' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	64
	16102	2' x 5' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	80
	16103	2' x 6' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	96
	16104	2' x 8' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	128
	16105	30" x 30" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	37.5
	16106	20" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	66.67
 Square Tegular Narrow	16200	2' x 2' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	32
	16201	2' x 4' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	64
	16202	2' x 5' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	60
	16203	2' x 6' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	72
	16204	2' x 8' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	96
	16205	30" x 30" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	37.5
	16208	30" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	75
16209	20" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	50	
 Square Tegular	16400	2' x 2' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.58	32
	16401	2' x 4' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	64
	16402	2' x 5' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	60
	16403	2' x 6' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	72
	16404	2' x 8' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.60	96
	16405	30" x 30" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	37.5
	16407	4' x 4' x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.60	96
16409	20" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	50.04	



Table 1
Sonar Panels



Edge Designation	Item Number	Modular Size (nominal)	NRC	CAC	AC	Fire Class	Mold & Mildew Resistance	Sag Resistance (relative humidity)	Light Reflectance	Cleanroom Class	Embodied Carbon		Low VOC	Recyclable	Packaging Information	
											Per 1m ² (kg CO ₂ - eq)	Per 1ft ² (kg CO ₂ - eq)			lbs/sqft	sqft/carton
 DMT Direct Mount	14350	2' x 2' x 3/4"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	40
	14351	2' x 4' x 3/4"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	80
	14353	2' x 6' x 3/4"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	96
	16354	2' x 8' x 1"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	96
	16355	30" x 30" x 1"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	38
	16357	4' x 4' x 1"	0.70	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	96
 SLP Shiplap	16457	4' x 4' x 1"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	96
 SCD Semi-Concealed	14550	2' x 2' x 3/4"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	40
	14551	2' x 4' x 3/4"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	80
	14552	2' x 5' x 3/4"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	80
	14553	2' x 6' x 3/4"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	96
	16554	2' x 8' x 1"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	96
	16555	30" x 30" x 1"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.84	37.5
 CDX Fully Concealed	14600	2' x 2' x 7/8"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.75	40
	14601	2' x 4' x 7/8"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.75	80
	14602	2' x 5' x 7/8"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.75	100
	14603	2' x 6' x 7/8"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.75	72
	16604	2' x 8' x 1"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.84	96
	16605	30" x 30" x 1"	0.90	22	190	A	✓	up to 100%	0.85	ISO 5	3.75	0.350	✓	✓	0.84	37.5



Table 2
Sonar Panels with HPM - CAC 33/35¹

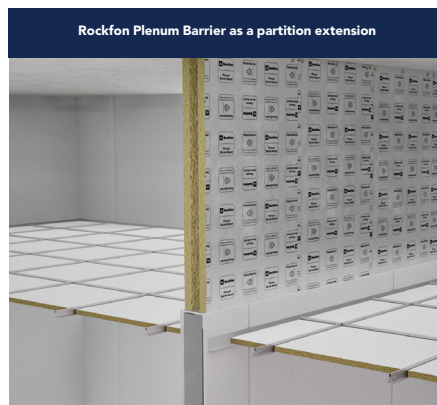
Edge Designation	Item Number	Modular Size (nominal)	NRC	CAC	AC	Fire Class	Mold & Mildew Resistance	Sag Resistance (relative humidity)	Light Reflectance	Cleanroom Class	Embodied Carbon		Low VOC	Recyclable	Packaging Information	
											Per 1m ² (kg CO ₂ - eq)	Per 1ft ² (kg CO ₂ - eq)			lbs/sqft	sqft/carton
 SQ Square Lay-In	16180	2' x 2' x 1"	0.85	33	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	64
	16181	2' x 4' x 1"	0.85	33	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	64
	16190	2' x 2' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.42	40
	16191	2' x 4' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.42	40
 SLN Square Tegular Narrow	16280	2' x 2' x 1"	0.85	33	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	32
	16281	2' x 4' x 1"	0.85	33	190	A	✓	up to 100%	0.85	ISO 5	3.49	0.325	✓	✓	0.69	64
	16290	2' x 2' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.42	20
	16291	2' x 4' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.42	40
 SL Square Tegular	16480	2' x 2' x 1"	0.85	33	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	0.58	32
	16481	2' x 4' x 1"	0.85	33	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	0.59	64
	16490	2' x 2' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.29	20
	16491	2' x 4' x 1-1/2"	0.85	35	170	A	✓	up to 100%	0.85	ISO 5	6.65	0.618	✓	✓	1.30	40

¹HPM panels include factory-applied high-performance membrane on the back of the tile.

Table 3
System Performance with Sonar Panels - CAC 40-58²

Product	NRC	Plenum Barrier Board as Ceiling Panel Backer (Horizontal Application) ⁴	Plenum Barrier Board as Partition Extension (Vertical Application)		Plenum Barrier Board
			Single-Layer	Double-Layer	
Sonar 1"	0.95 ³	46	40	52	Rockfon® Plenum Barrier Board is a stone wool noise blocking panel, which is installed over partitions inside ceiling plenums, on top of ceiling panels or under partitions in raised-floor plenums to increase sound insulation and privacy between rooms. Actual board size 2' x 4' x 1-1/2" (SKU#7900) with fiber reinforce foil facing on one side. Click to access Rockfon Plenum Board datasheet.
Sonar 1" with HPM ¹	0.85	-	52	58	
Sonar 1.5" with HPM ¹	0.85	-	54	58	

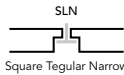
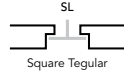
¹HPM panels include factory-applied high-performance membrane on the back of the tile.
²Use the system in Table 3 that provides a CAC rating at least equal to the STC rating of the partition between the rooms.
³Call Rockfon for SCD & CDX edge type system acoustical performance.
⁴Assumes plenum barrier applied to full ceilings both sides of walls. Contact Rockfon for performance of 1-side and not the other.



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





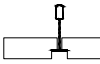

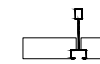

Table 4

Sonar Module Tiles

Edge Designation	Item Number	Modular Size (nominal)	NRC*	CAC*	AC*	Fire Class*	Mold & Mildew Resistance	Sag Resistance (relative humidity)	Light Reflectance	Cleanroom Class	Embodied Carbon		Low VOC	Recyclable	Packaging Information	
											Per 1m ² (kg CO ₂ - eq)	Per 1ft ² (kg CO ₂ - eq)			lbs/sqft	sqft/carton
 Square Tegular Narrow	16220	4" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	24
	16230	4" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	16
	16240	4" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	30
	16250	4" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	36
	16221	6" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	24
	16231	6" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	16
	16241	6" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	30
	16251	6" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	36
	16222	12" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	16
	16232	12" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	32
	16242	12" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	30
	16252	12" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.69	36
 Square Tegular	16420	4" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.58	24
	16430	4" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	16
	16440	4" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	30
	16450	4" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	36
	16421	6" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.58	24
	16431	6" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	16
	16441	6" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	30
	16451	6" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	36
	16422	12" x 24" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.58	24
	16432	12" x 48" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	48
	16442	12" x 60" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	30
	16452	12" x 72" x 1"	0.95	22	190	A	✓	up to 100%	0.85	ISO 5	4.15	0.386	✓	✓	0.59	36

* Items not UL Listed






Product Compatibility

15/16" Suspension Systems					9/16" Suspension Systems			
Chicago Metallic® 200, 1200 and Fire-Rated Systems					Chicago Metallic® 4000, 4200, 4500, 4600 and Fire-Rated Systems			
 SQ Square Lay-in	 SL Square Tegular	 SLP Shiplap	 SCD Semi-Concealed	 CDX Fully Concealed	 SLN - Square Tegular Narrow			
					 4000 - Tempra	 4200 - Integrity	 4500 - Ultraline 1/4" Reveal	 4600 - Ultraline 1/8" Reveal

Accessories

	Detail	Rockfon Part Number	Product Number	Product Description	Packaging	
					Pcs/Ctn	Lbs/Ctn
General Clips*		250348	935.00	Universal Hold Down Clip	1000	16
		252923	425.01	Hold Down Clip for 5/8" Board 250/1250 Systems	200	2
		250343	820.00	Hold Down Clip for 5/8" Board 250/1250 Systems	1000	7
		237949	490.00	Hold Down Clip for 0" - 3/4" Panels (Black)	100	2
		237952	491.00	Hold Down Clip for 3/4" - 1-1/4" Panels (Blue)	150	2
		237954	492.00	Hold Down Clip for 1-1/2" Panels (Grey)	100	2
		250324	426.01	Butterfly Retention Clip for 0" - 1" Panels	200	15
		250325	427.01	Butterfly Retention Clip for 1" - 2" Panels	150	15
Tile Paint		307988	RFN941	Edge Paint for Field Cut Panels White - 1/2" pint. Brush included.	Can	1
		307989	RFN941Q	Edge Paint for Field Cut Panels White - 32 oz	Can	1

* Clips should be chosen as per tile thickness

	Detail	Rockfon Part Number	Product Number	Product Description	Packaging	
					Pcs/Ctn	Lbs/Ctn
CDX Tiles Accessories		237264	-	CDX Perimeter Spring	100	1.1
		250338	478.00	Concealed Perimeter Clip	50	4.5
		314292	472.00	CDX/SCD Border Clip	100	1.1
		250334	474.01	24" Pre-mitered Vinyl Trim Kit for CDX and SCD only	50	1.4
		250335	475.01	48" Pre-mitered Vinyl Trim Kit for CDX and SCD Only	50	2
		250336	476.01	120" Vinyl Trim Piece Straight Cut	1	1
	Shiplap Clip		250337	477.00	48" SLP Spline, for use with Rockfon Sonar 4x4 SLP	1

Scan for Full Accessories Guide



Scan for CDX & SCD Edge Installation Guide



Rockfon Sonar® Properties

Material

Stone wool (mineral wool) ceiling tiles with factory applied water-based paint and water-based lacquer on glass scrim surface.



ASTM E1264 Classification

ASTM E1264 (2022): Type IV, Form 3, Pattern E
ASTM E1264 (2023): Type A, Form A2.3, Pattern E



Acoustic Performance

Rockfon Sonar® Ceiling panels are tested for Noise Reduction Coefficient (NRC) and Ceiling Attenuation Class (CAC) according to the following ASTM standards:

- ✓ NRC – Tested to ASTM C423
- ✓ CAC – Tested to ASTM E1414



Fire Performance

Rockfon Sonar® tiles are tested for Surface Burning Characteristics to UL 723 (ASTM E84) for the US and CAN/ULC-S102 for Canada, and achieve:

Tested to US Standard Flame Spread Index: 0
UL 723 (ASTM E84): Smoke Developed Index: 0

Canadian Standard Flame Spread Rating: 10
CAN/ULC S102: Smoke Developed Classification: 5

Products with CAC 33 and over include high performance membrane with Flame Spread Index of 15 and Smoke Developed Index of 5



Mold and Mildew Resistance

Stone wool is inherently resistant to mold and mildew without added antimicrobials. Both, tile surface and substrate, are tested to:

- ✓ ASTM D3273 (Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings)
- ✓ ASTM C1338 (Standard Test Method for Determining Fungi Growth Resistance of Insulation Materials and Facings)



Humidity Resistance

Stone wool ceiling tiles are inherently humidity resistant and are tested to ASTM C367 (Standard Test Methods for Strength Properties of Prefabricated Architectural Acoustical Tile or Lay-In Ceiling Panels) and won't sag or warp even in 100% relative humidity



Cleaning

- ✓ Vacuum
- ✓ Damp cloth
- ✓ Rockfon Sonar® tiles are able to be washed through 100 cycles of the standard washability tester and cleaner prescribed in ASTM D4828.
- ✓ Rockfon Sonar® panels can withstand up to 200 scrub cycles using the prescribed scrubber and force per ASTM D2486.
- ✓ Rockfon Sonar® can be safely treated with a number of cleaning solutions and are resistant to diluted solutions of ammonia, chlorine, quaternary ammonium and hydrogen peroxide as described in ASTM D1308



Thermal Resistance

R 3.47 hr.ft².°F/Btu per 1 inch (I-P)
R 0.61 m².K/W per 25.4 mm (SI)



Clean Room

ISO Class 5



Warranty

30-Year Limited Product Warranty.
See rockfon.com

Sustainability



Transparency

- ✓ Environmental Product Declaration (Product-Specific, Type III)
- ✓ Health Product Declaration
- ✓ Declare Label

Applicable to all edge types



Low-Emitting Materials

UL GREENGUARD Gold certified for low VOC (chemical) emissions and meet the California Department of Public Health (CDPH) Standard Method v1.2-2017 for offices and classroom environments



Embodied Carbon

Global Warming Potential (GWP) kg of CO₂-eq (per functional unit) from stages A1 - A3 for SQ Edge: 4.15 kg CO₂-eq (per 1m²) / 0.386 kg CO₂-eq (per 1f²)
For all other edge types, refer to p. 2-4.



Rockcycle - Closed Loop Recycle Program

All stone wool ceiling tiles are eligible for the Rockcycle program. Please contact rockcycle@rockfon.com for more information



Discover Rockfon Sonar®

on Ecomedes and see how it aligns with the Common Materials Framework (CMF).

Find us on

MasterSpec
Powered by Delttek Specpoint®

BIM/Revit objects available at:
rockfon.com/products/rockfon-sonar/