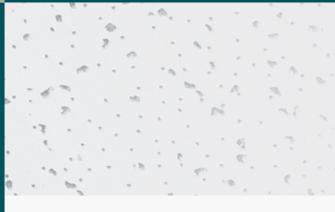# HIGH NRC MINERAL FIBER
RADAR™

RADAR™

FEATURES AND BENEFITS

- Balanced Acoustics. High-NRC and High-CAC balance room acoustics and sound attenuation are ideal for general commercial construction.
- Excellent combination of noise reduction (up to NRC-0.80) and sound attenuation (up to CAC-40).
- 360° non-directional pattern with a fresh, clean appearance that allows for fast, efficient installation.
- Cost-effective all-purpose ceiling pattern solution offered in many sizes and edge details.
- Fire-resistant system options for life, safety, and property protection.
- Available in HRC (High Recycled Content) for optimized recycled content formulations to help maximize LEED® recycled content contribution and sound absorption.
- Certificated for Environmental Product Declaration (EPD) as per ISO 14025.
- Available in 22mm for High NRC & High CAC panels.
- It is also available in washable paint and various plank sizes.

APPLICATIONS

- Education
- Corridors
- Cafeterias
- Libraries
- Open office plans
- Retail stores
- Basement

ABSORPTION COEFFICIENT

Frequency, Hz	125	250	500	1000	2000	4000	NRC*
12mm	0.30	0.30	0.40	0.55	0.75	0.85	0.50
15mm	0.40	0.35	0.45	0.60	0.70	0.70	0.50
19mm	0.30	0.35	0.55	0.75	0.75	0.65	0.60
19mm HNRC	0.25	0.35	0.65	0.85	0.90	0.90	0.70
22mm	0.35	0.50	0.75	0.95	1.0	0.90	0.80

* Calculated to ASTM C 423-01

EN 13964 : 2014 + A1 : 2007

CERTIFIED — ENVIRONMENTAL PRODUCT DECLARATION (ECOWATT)
PRODUCT CERTIFIED FOR ENVIRONMENTAL PRODUCT DECLARATION

GREENGUARD
PRODUCT CERTIFIED FOR LOW VOC EMISSIONS

GREENGUARD GOLD
PRODUCT CERTIFIED FOR LOW VOC EMISSIONS

Sound Absorption — HIGH SOUND ABSORPTION

PRIVACY — CEILING ATTENUATION CLASS

FIRE — FIRECODE

HRC — HIGH RECYCLED CONTENT

SPECIFICATIONS DETAILS

Radar™ Acoustical Ceiling meets specifications in accordance with ASTM E1264 and EN13964.

Materials Classification
Type A, Form A1, Pattern C,D, E

Substrate and Surface Finish
Mineral fiber substrate finished with factory-applied water-based paint

Thickness
12mm, 15mm, 19mm, 22mm

Size
300 x 1200mm, 305 x 1220mm, 600 x 600mm, 610 x 610mm, 600 x 1200mm, 610 x 1220mm

Edge Detail Trim
Square, Reveal [SLT, FLB]

Weight
12mm [2.85 kg/m², Regular/ClimaPlus™],
15mm [3.6 kg/m², Regular/ClimaPlus™],
15mm [5.1 kg/m², Firechief™],
19mm [4.5 kg/m², Regular/ClimaPlus™],
19mm [6.45 kg/m², Firechief™],
22mm [5.25 kg/m², Regular/ClimaPlus™]

Noise Reduction Coefficient [NRC]
[0.50] [0.60] [0.70] [0.80]

Ceiling Attenuation Class [CAC]
[35 - 40 dB]

Humidity Resistance
Maximum 99% RH / 40°C for ClimaPlus™

Light Reflectance Coefficient [LR]
0.85

Color
Standard White

Mold Prevention Application as per ASTM D3273
Rate 10: Resistant to mold growth. Panels are available upon request

Surface Burning Characteristics as per ASTM E84
Class A

Reaction to Fire as per EN 13501-1
Euroclass A2-s1, d0

Fire Rating as per BS 476 (Firechief™ Option)
1hr Time-rated assembly

Thermal Conductivity
λ = 0.057 W/m°K

VOC Class
Greenguard & Greenguard Gold

Formaldehyde Classification
Class E1 as per EN717-1

Washability / Scrubbability as per ASTM D4828 & D2486
Exceeds 1000 Wash/Scrub cycles without surface break or the extent of abrasion upon request

Relevant LEED® Credit
EA Credit 1 | MR Credit 4 | MR Credit 5 | MR Credit 6 | IEQ Credit 3 | IEQ Credit 3.2 | IEQ Credit 4.6 | IEQ Credit 8.1 | IEQ Credit 9

RADAR™

TABLE OF PERFORMANCE

Edge Detail	Item	Size (mm)	NRC	CAC	Light Reflectance	Anti-Mold & Mildew/ Sag Resistance	Fire Rating	Recycled Content	VOC Emission	Cost
SQ	RDS662 / RDS222	600*600*12 / 610*610*12	0.50	35	85%			25%	Low	$
	RDS665 / RDS225	600*600*15 / 610*610*15	0.50	36	85%			25%	Low	$
	RDC665 / RDC225	600*600*15 / 610*610*15	0.50	36	85%	●		39%	Low	$
	RDX665 / RDX225	600*600*15 / 610*610*15	0.50	37	85%		●	56%	Low	$$
	RDX625 / RDX245	600*1200*15 / 610*1220*15	0.50	37	85%		●	56%	Low	$$
	RDX669 / RDX229	600*600*19 / 610*610*19	0.60	40	85%		●	56%	Low	$$
	RDC325 / RDC145	300*1200*15 / 305*1220*15	0.50	36	85%	●		39%	Low	$$
	RDS669 / RDS229	600*600*19 / 610*610*19	0.60	38	85%			25%	Low	$$
	RDC669-HNRC / RDC229-HNRC	600*600*19 / 610*610*19	0.70	40	85%	●		82%	Low	$$$
	RDC329 / RDC149	300*1200*19 / 305*1220*19	0.60	40	85%	●		39%	Low	$$$
	RDC669 / RDC229	600*600*19 / 610*610*19	0.60	40	85%	●		39%	Low	$$$
	RDC6622 / RDC2222	600*600*22 / 610*610*22	0.80	39	85%	●		39%	Low	$$$$
SLT	RDSR665 / RDSR225	600*600*15 / 610*610*15	0.50	36	85%			25%	Low	$
	RDCR665 / RDCR225	600*600*15 / 610*610*15	0.50	36	85%	●		39%	Low	$
	RDXR669 / RDXR229	600*600*19 / 610*610*19	0.60	40	85%		●	56%	Low	$$
	RDCR325 / RDCR145	300*1200*15 / 305*1220*15	0.50	36	85%	●		39%	Low	$$
	RDSR669 / RDSR229	600*600*19 / 610*610*19	0.60	38	85%			25%	Low	$$
	RDCR669-HNRC / RDCR229-HNRC	600*600*19 / 610*610*19	0.70	40	85%	●		82%	Low	$$$
	RDCR329 / RDCR149	300*1200*19 / 305*1220*19	0.60	40	85%	●		39%	Low	$$$
	RDCR669 / RDCR229	600*600*19 / 610*610*19	0.60	40	85%	●		39%	Low	$$$
	RDCR6622 / RDCR2222	600*600*22 / 610*610*22	0.80	39	85%	●		39%	Low	$$$$
FLB	RDSRF665 / RDSRF225	600*600*15 / 610*610*15	0.50	36	85%			25%	Low	$
	RDCRF665 / RDCRF225	600*600*15 / 610*610*15	0.50	36	85%	●		39%	Low	$
	RDCRF325 / RDCRF145	300*1200*15 / 305*1220*15	0.50	36	85%	●		39%	Low	$$
	RDCRF329 / RDCRF149	300*1200*19 / 305*1220*19	0.60	40	85%	●		39%	Low	$$$

Low Emissions (VOC)
Third party (GREENGUARD & GREENGUARD Gold) certified for low-emitting performance, meets California Department of Public Health (CDPH) Standard Method V1.2-2017 using a Classroom Environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2. UL. Tests are available on usgme.com and at spot.ul.com

High Recycled Content
Classified as containing greater than 50% total recycled content. Total recycled content is based on product composition of postconsumer and preconsumer (postindustrial) recycled content per FTC guidelines. *For Firechief™ products.*

DX/DXL SQ Edge	DXT SQ Edge	DX/DXL SLT Edge	DXT FLB Edge	DXF FLB Edge

Disclaimer:
Information contained in this document is subject to change without prior notice due to our ongoing product development. We recommend referring to the website **usgme.com** for the most up-to-date and accurate product information.

This technical datasheet is intended for global use in regions where USG ME has authorized sales territories.