TECHNICAL DATASHEET

LOUNA™ HYGIENE



VISIT USGME.COM TO ORDER SAMPLES

FINISH OPTIONS

White

FEATURES & BENEFITS

- Louna™ Hygiene is ISO 4 according to the norm ISO 14644-1 : 2015.
- Superb ceiling panel made of stone wool substrate with water repellent facing membrane designed to be durable and safe with common disinfectants and sealed edges.
- Elegant and refined acoustical facing and high performance mineral fleece membrane on the backside.
- For healthcare facilities this option provides an excellent combination of noise reduction (up to NRC-0.95) and sound attenuation (up to CAC-39) to improve patient recovery.
- High light reflectance (LR-0.88) reduces wear and tear on light fixtures and energy use.
- Recommended to be used with AX grid for hospitals in high-humidity or wet-cleaned areas.
- Washable & scrubbable finish.
- Impact & scratch resistant.
- Available in plank sizes compatible with Logix™ Integrated ceiling system.

APPLICATIONS AS PER 2018 FGI GUIDELINES

- Class 1 MRI & imaging rooms
- Laboratories
- Laundry areas
- Lobbies
- ICU / NICU
- Pharmacies
- Waiting areas
- Ware washing

Absorption Coefficient

Frequency, Hz	125	250	500	1000	2000	4000	NRC*
19mm	0.60	0.85	0.85	0.95	1.0	1.0	0.90
19mm-R**	0.55	0.80	0.75	0.90	1.0	1.0	0.85
25mm	0.65	0.95	0.90	1.0	1.0	1.0	0.95
25mm-R**	0.60	0.80	0.80	1.0	1.0	1.0	0.90
25mm-AF***	0.40	0.70	0.85	1.0	1.0	1.0	0.90
38mm-AF***	0.45	0.65	0.80	0.95	0.95	0.95	0.85

* *Calculated to ASTM C 423-01*
** *Reveal Edge*
*** *Aluminium Foil*

USG ME
INNOVATIVE SOLUTIONS. EVERYTIME.


Fire exit
Pathology

LOUNA™ HYGIENE

EN 13964 : 2014 + A1 : 2007

PRODUCT CERTIFIED FOR ENVIRONMENTAL PRODUCT DECLARATION

HIGH SOUND ABSORPTION

CEILING ATTENUATION CLASS

AVAILABLE IN CONCEALED EDGE

FIRECODE

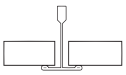
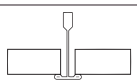
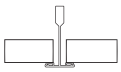
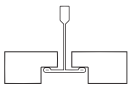
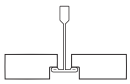
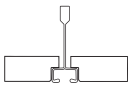
HEALTHCARE APPLICATION

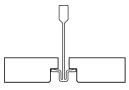
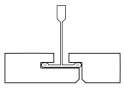
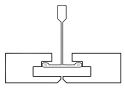
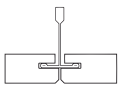
TABLE OF PERFORMANCE

Edge Detail	Item	Size (mm)	NRC	CAC	Light Reflectance	Anti-Mold /Mildew & Sag Resistance	Fire Rating**	Recycled Content	VOC Emission	Cost
			NRC	CAC						
SQ	LC669H LC229H	600*600*19 610*610*19	0.90	25	88%		Class A	47%	N/A	$$$
	LC6625H LC2225H	600*600*25 610*610*25	0.95	26	88%		Class A	47%	N/A	$$$
	LC3225H LC1425H	300*1200*25 310*1220*25	0.90	26	88%		Class A	47%	N/A	$$$$
	LC6625-AFH* LC2225-AFH*	600*600*25 610*610*25	0.90	35	88%		Class A	47%	N/A	$$$$
	LC6638-AFH* LC2238-AFH*	600*600*38 610*610*38	0.85	39	88%		Class A	47%	N/A	$$$$
SL	LCR669H LCR229H	600*600*19 610*610*19	0.85	27	88%		Class A	47%	N/A	$$$$
	LCR6625H LCR2225H	600*600*25 610*610*25	0.90	28	88%		Class A	47%	N/A	$$$$
	LCR3225H LCR1425H	300*1200*25 310*1220*25	0.90	28	88%		Class A	47%	N/A	$$$$
	LCR6225H LCR2425H	600*1200*25 610*1220*25	0.90	28	88%		Class A	47%	N/A	$$$$
FL	LCRF669H LCRF229H	600*600*19 610*610*19	0.85	27	88%		Class A	47%	N/A	$$$$
	LCRF6625H LCRF2225H	600*600*25 610*610*25	0.90	28	88%		Class A	47%	N/A	$$$$
	LCRF6225H LCRF2425H	600*1200*25 610*1220*25	0.90	28	88%		Class A	47%	N/A	$$$$
	LCRF3225H LCRF1425H	300*1200*25 310*1220*25	0.90	28	88%		Class A	47%	N/A	$$$$
D-BESK	LCRFDC669H	600*600*19	0.85	28	88%		Class A	47%	N/A	$$$$$
	LCRFDC6625H	600*600*25	0.90	29	88%		Class A	47%	N/A	$$$$$
S-BESK	LCDSC6625H	600*600*25	0.90	29	88%		Class A	47%	N/A	$$$$$
BESK	LCFC669H	600*600*19	0.85	28	88%		Class A	47%	N/A	$$$$$
	LCFC225H	600*600*25	0.90	29	88%		Class A	47%	N/A	$$$$$

*Aluminium Foil
** To ASTM E84

GRID PROFILE OPTIONS

DX/DXL SQ Edge	DXLT SQ Edge	AXCE SQ Edge	DX/DXL SL Edge	DXT FL Edge	DXF FL Edge
					

DXI FL Edge	DX/DXL D-BESK	DX/DXL S-BESK	DX/DXL BESK Edge
			

LOUNA™ HYGIENE



SPECIFICATION DETAILS

Louna™ Hygiene Acoustical Ceiling meets specifications in accordance with ASTM E1264.

Materials Classification
Type: XX,
Pattern: G

Substrate and Surface Finish
Stone Wool substrate laminated with prepainted fiberglass scrim with sealed edges and water repellent membrane and back fiberglass tissue

Water Absorbance
Repellency membrane that resists mild water drippage for up to 2 hrs

Thickness
19mm, 25mm, 38mm

Size
600 x 600mm, 610 x 610mm,
600 x 1200mm, 610 x 1220mm,
300 x 1200mm, 310 x 1220mm

Edge Detail Trim
Square, Reveal [SL, FL]
Concealed [D-BESK, S-BESK, BESK]

Weight
Square:
19mm: 2.28 kg/m²
25mm: 3 kg/m²
38mm: 4.55 kg/m²
Reveal [SL, FL]:
19mm: 2.85 kg/m²
25mm: 3.75 kg/m²
Concealed [D-BESK, S-BESK, BESK]:
19mm: 3.13 kg/m²
25mm: 4.12 kg/m²

Noise Reduction Coefficient [NRC]
[0.85] [0.90] [0.95]

Ceiling Attenuation Class [CAC]
[25 - 39 dB]

Clean Room Classification as per ISO 14644-1
ISO 4

Mold Prevention Application as per ASTM D3273
Rate 10

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

Light Reflectance Coefficient [LR]
0.88

Color
Standard White similar to RAL 9016.

Surface Burning Characteristics as per ASTM E84
Class A

EN 13501-1 Class of Reaction to Fire Performance
A1

Thermal Conductivity
λ = 0.036 W/m°K

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

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