



TECHNICAL DATA SHEET

TENS-TEX finish ILUCS

Large panel of ILUCS stretched over a PVC perimeter profile, with open-cell mineral foam inside, custom-made to create large sound-absorbing surfaces on walls and ceilings.



0,50 (MH)

weighted absorption
EN ISO 11654



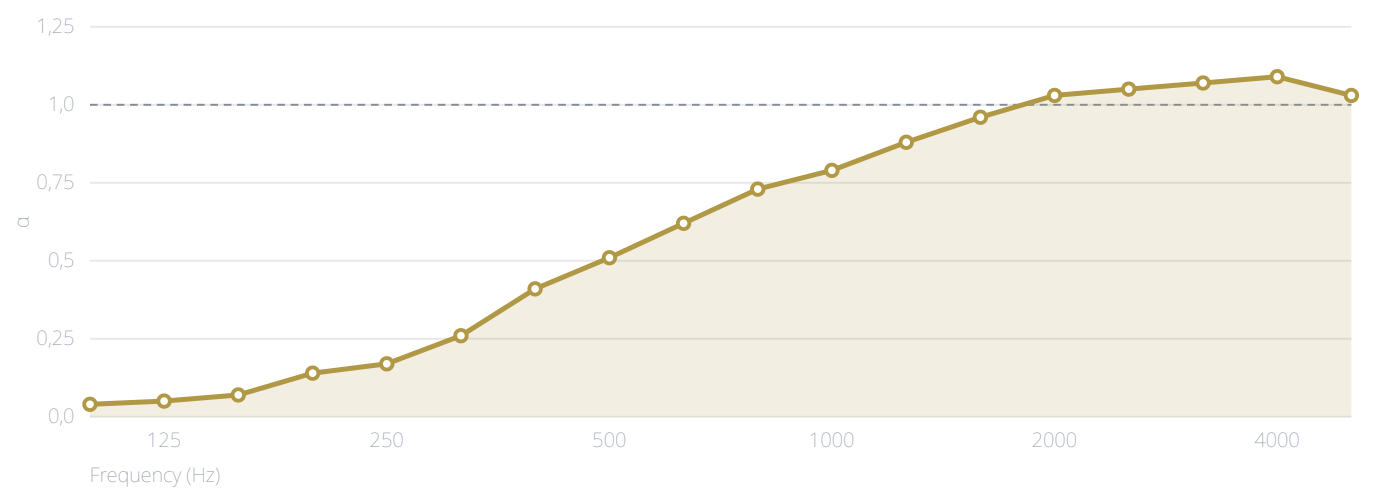
15 mm

of the assembly



Acoustic absorption

Reverberation chamber test according to EN ISO 354:2003 (measurement) · EN ISO 11654:1997 (evaluation, $\alpha_w = 0.50$ with shape indicators MH) · Tecnalia Research & Innovation Foundation — test at the Basque Government's Building Quality Control Laboratory, Acoustics Area, Agirrelanda 10, Vitoria-Gasteiz. Accreditation ENAC No. 4/LE456. · report B2023-LACUS-IN-195-7 (test result B2023-195-M957) (22/02/2023). Specimen 'ISINAC TENSTEX ILUCS' of 15 mm nominal thickness: ILUCS stretched fixed to a PVC perimeter profile, with open-cell foam of 14 mm and 9 kg/m³ covering the inner face to the edge of the profile. Modules with the profile mechanically fixed to a 10 mm plywood base, placed butt-jointed on the floor of the reverberation chamber, $S = 11,16 \text{ m}^2$, with a perimeter frame made of 30 x 25 mm board and sealed joints. Assembly by Tecnalia, end of assembly and test on 08/02/2023. Chamber of 209,6 m³.



α_w 0,50 (MH)

Weighted absorption coefficient, according to EN ISO 11654. It is the single value used for specification.

HZ	125	250	500	1000	2000	4000
α_s	0,05	0,17	0,51	0,79	1,03	1,09

Absorption coefficient at reference frequencies, ready to be entered into the room reverberation calculation.



The **acoustic** tests in this data sheet were carried out at **TECNALIA**, a laboratory accredited by **ENAC** and a signatory to the **ILAC-MRA** agreement, which gives international recognition to the results. The reaction to fire classification is issued by the laboratory cited in its block.

 Composition, layer by layer

LAYER	MATERIAL	COMPOSITION	GRAMMAGE / DENSITY	POSITION
1	stretched ILUCS	100 % polyester Trevira CS	265 g/m ² , ~1 mm	exposed side, tensioned over the perimeter profile
2	PVC perimeter profile	PVC		perimeter frame; mechanically fixed (screwed) to wall or ceiling
3	Mineral foam core	open cell mineral foam	14 mm thickness and 9 kg/m ³ nominal density (in the tested 15 mm version), with adhesive on the hidden side	covers the inner surface up to the edge of the profile

Assembly thickness: 15 mm.

 Color

ILUCS in the color chart of ISINAC. Also allows customization by sublimation (logos, photos, custom images).

 Dimensions and installation

 Custom-made	custom-made; thickness 15 or 40 mm
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What ISINAC brings to a certified project

Current certifications of ISINAC ACOUSTIC WORLD S.L.U., with its registration number and validity. Complete documentation available to the drafting team.

ISO 14001 · ISO 14006 Environmental management and ecodesign. Bureau Veritas. CURRENT UNTIL 2029	OEKO-TEX® Certification of ILUCS, free of harmful substances. STANDARD 100, product class II. CURRENT UNTIL 06-02-2027	SCS Indoor Advantage™ Gold SCS-IAQ-11186 · VOC emissions according to CDPH v1.2. Covers ILUCS. CURRENT UNTIL 31-08-2027
Trevira CS Permanent flame-retardant polyester fabric; brand approval issued in the name of ISINAC. CURRENT		

What this product adds to building certification

12 WELL documentable credits	6 HQE documentable credits	5 LEED documentable credits	4 BREEAM documentable credits	4 DGNB documentable credits
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Credits that ISINAC can document for this product, with the test or certificate supporting them. The points awarded by each one and who grants them are on the last page.

Material and lifecycle, at a glance

 stretched ILUCS 100 % polyester Trevira CS	 15 mm thick Of the assembly.	 VOC emissions below threshold SCS Indoor Advantage Gold, CDPH v1.2 method, on the fabric.
 Made in the European Union Made in Europe seal.	 ILUCS in the color chart of ISINAC Catalog finishes.	

Documentation accompanying this product

Everything available to the writing team, upon request and free of charge: accredited laboratory absorption test report · fabric certificates (OEKO-TEX, VOC emissions) · coefficients per band in native format for ODEON, EASE, CATT, INSUL and SONarchitect.



CERTIFICATION	CREDIT	POINTS	HOW IT IS ACCREDITED
BREEAM	Hea 06 — <i>Acoustic performance</i>	—	accredited laboratory absorption and insulation tests ENAC
BREEAM	Hea 04 — <i>Indoor air quality</i>	—	VOC emissions certificate
LEED v4.1	EQ — <i>Low-Emitting Materials</i>	1–3	SCS Indoor Advantage Gold, CDPH v1.2 method
LEED v4.1	EQ — <i>Acoustic Performance</i>	1	band absorption coefficients for reverberation calculation
DGNB	ENV1.1 — <i>Life cycle assessment</i>	up to 130	LCA modules broken down, in a format readable by calculation tools
DGNB	SOC1.3 — <i>Acoustic comfort</i>	up to 110	α_p per band, α_w and equivalent sound absorption area
DGNB	ENV1.3 — <i>Resource extraction</i>	up to 100	certifications of origin and environmental management
HQE	Material emissions	2	carcinogenic formaldehyde and VOC 1A and 1B below threshold
HQE	Acoustics in common areas	up to 3	available absorption tests
WELL	S05 — <i>Sound Reducing Surfaces</i>	2	the product is the compliance element
WELL	S04 — <i>reverberation time</i>	2	absorption coefficients of the material
WELL	S06 — <i>acoustic privacy reinforcement</i>	1	hangs from S05, with the same backing

The points are those granted by each credit in its current version; the Assessor awards them based on the complete building. Detailed reasoning per certification label available upon request.

Documentation for your project

Complete test reports, Declarations of Performance, certificates and acoustic calculation sheets available to the design team. We provide specification support from the project phase to the construction site.

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