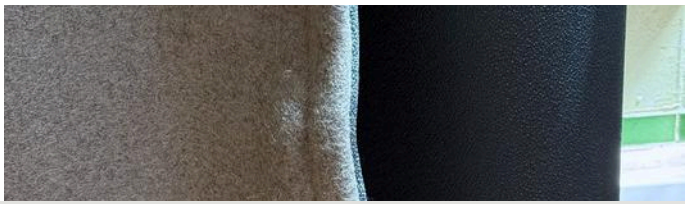
TECHNICAL DATA SHEET

CURTAIN ILUCS 2 LAYERS

Two-layer sound-absorbing curtain: ILUCS of polyester Trevira CS on the visible face and carbon fiber non-woven fabric on the hidden face. αW 0.80 tested draped at 200 mm from the wall.

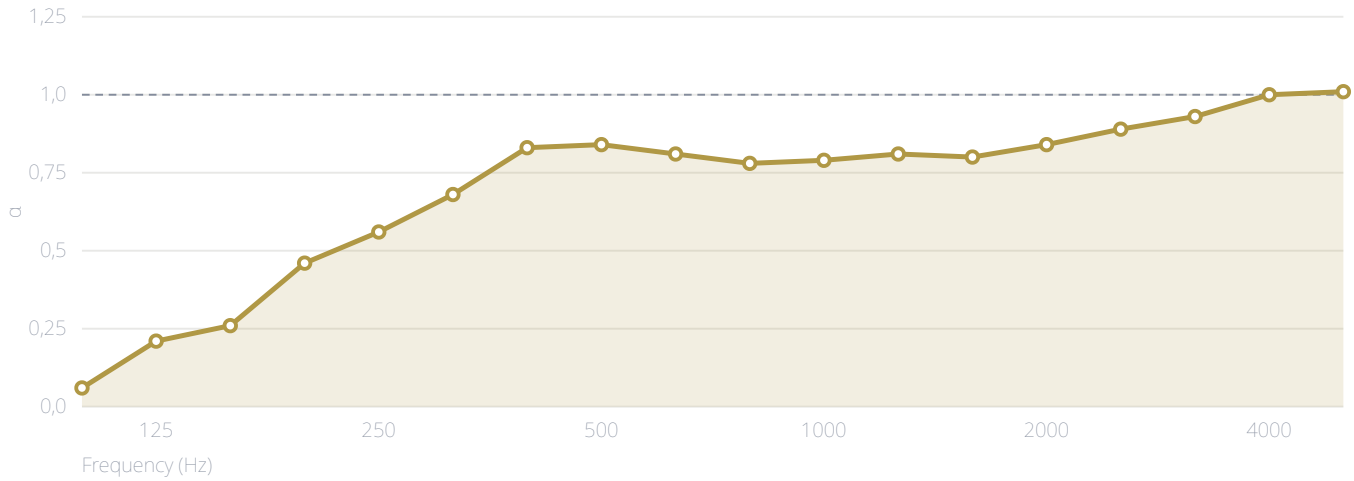
α_W	Class	Thickness
0,80 (H)	**ILUCS: B-s1,d0**	**~4 mm**
weighted absorption	reaction to fire	of the assembly
EN ISO 11654	EN 13501-1	



Acoustic performance

Acoustic absorption

Reverberation room test according to EN ISO 354:2003 (αW according to EN ISO 11654:1997) · TECNALIA (Fundación TECNALIA R&I, ENAC 4/LE456) · report 110259-6 (29/02/2024). Folded curtain —three panels joined by zipper, 4760 mm of fabric covering 3600 mm, pleat ratio 1.32— at 200 mm from the wall and without side frame; mounting type G-200 of Annex B of EN ISO 354:2003, hung from a Ø40 mm wooden rod. Tested area 10,8 m², reverberation room of 209,6 m³.



α_W 0,80 (H)

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	0,21	0,56	0,84	0,79	0,84	1,0

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

Reaction to fire

ILUCS: B-s1,d0

EN 13501-1 · BTTG · British Carpet Technical Centre (Leeds, United Kingdom), ref. 27/03465E/03/15 (13/04/2015)

SBI test (EN 13823) on the ILUCS WITHOUT adhering, which is how a hanging curtain works.

Classification issued by an independent laboratory on the tested product according to EN 13501-1.

tecnalia
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

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.

Material, color and dimensions

Composition, layer by layer

LAYER	MATERIAL	COMPOSITION	GRAMMAGE / DENSITY	POSITION
1	**ILUCS**	polyester Trevira CS	265 g/m²	exposed side
2	**PX210**	non-woven 100 % carbon fiber	210 g/m²	hidden side

Assembly thickness: ~4 mm.

Color

Color chart ILUCS (LC codes). Customization by sublimation with logos, photos or Pantone colors.

Dimensions and installation

Width	panels up to 140 or 170 cm depending on fabric color; for greater widths, panels are joined by a zipper
Pleated	1.32 in the test (4760 mm of fabric to cover 3600 mm)
High	custom-made
Format	supply in whole linear meters
Hanging	rails or rod washers
Cleaning	frequent vacuuming and damp cloth

Sustainability and certification

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	6	5	4	4
WELL	HQE	LEED	BREEAM	DGNB
documentable credits	documentable credits	documentable credits	documentable credits	documentable credits

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

ILUCS
polyester Trevira CS

~4 mm thickness
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 color chart (LC codes)
Catalog finishes.

Documentation accompanying this product

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

Points in building certification

CERTIFICATION	CREDIT	POINTS	HOW IT IS ACCREDITED
BREEAM	Hea 06 — *Acoustic performance*	—	accredited laboratory absorption and insulation tests ENAC
BREEAM	Hea 04 — *Indoor air quality*	—	VOC emissions certificate
LEED v4.1	EQ — *Low-Emitting Materials*	1–3	SCS Indoor Advantage Gold, CDPH v1.2 method
LEED v4.1	EQ — *Acoustic Performance*	1	band absorption coefficients for reverberation calculation
DGNB	ENV1.1 — *Life cycle assessment*	up to 130	LCA modules broken down, in a format readable by calculation tools
DGNB	SOC1.3 — *Acoustic comfort*	up to 110	α_p per band, α_W and equivalent sound absorption area
DGNB	ENV1.3 — *Resource extraction*	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 — *Sound Reducing Surfaces*	2	the product is the compliance element
WELL	S04 — reverberation time	2	absorption coefficients of the material
WELL	S06 — acoustic privacy reinforcement	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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