



TECHNICAL DATA SHEET

CURTAIN ILUCS 4 LAYERS

Four-layer sound-absorbing curtain: ILUCS of polyester Trevira CS on the visible faces and carbon fiber non-woven fabric on the inside. Class A absorption (α_w 1.00) and R_w 9 dB, both measured in laboratory.



1,00

weighted absorption
EN ISO 11654



9 dB

sound insulation
EN ISO 717-1



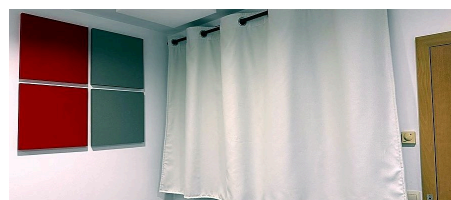
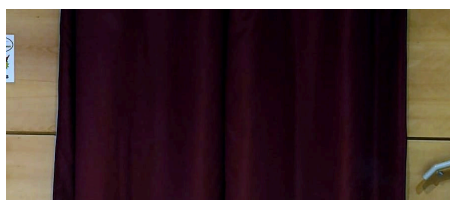
**ILUCS: B-
s1,d0**

reaction to fire
EN 13501-1



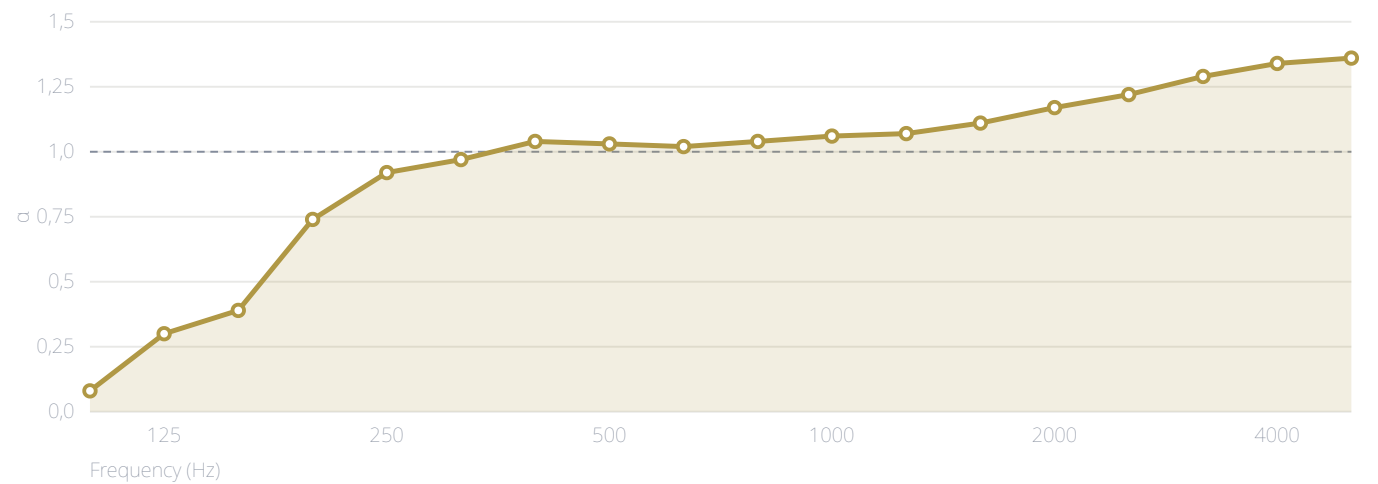
7-8 mm

of the assembly



Acoustic absorption

Reverberation room test according to EN ISO 354:2003 (α_W and class according to EN ISO 11654:1997) · TECNALIA — Acoustics Area of the Quality Control Laboratory for Buildings of the Basque Government (ENAC 4/LE456) · report B2019-LACUS-IN-54 V (result B2019-54-M615) (08/05/2019). Folded curtain —three panels joined by zipper, 4650 mm of fabric covering 3600 mm, pleat ratio 1.29— 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. Absorption class A declared in the report itself.



α_W 1,00

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	0,3	0,92	1,03	1,06	1,17	1,34

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

Acoustic insulation

R_W 9 dB

$(C;C_{tr}) = (-1;-2)$ · R_A 9,0 dBA
EN ISO 717-1:2013, measured according to EN ISO 10140-2:2010 · TECNALIA — Acoustics Area of the Building Quality Control Laboratory of the Basque Government (ENAC 4/LE456) B2021-LACUS-IN-146-5 (result B2021-146-M844) (20/05/2021)

Single-number sound reduction index, measured in laboratory on the assembly.
Six panels joined by a zipper (9600 mm made of fabric covering 3600 mm) mechanically fixed to a perimeter wooden batten on a concrete frame, with the joint sealed with silicone.

HZ	125	250	500	1000	2000	4000
R (dB)	4,3	4,1	6,3	7,5	9,8	12,3

Sound reduction index by octave bands, measured in laboratory.



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.

🔥 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.

📦 Composition, layer by layer

LAYER	MATERIAL	COMPOSITION	GRAMMAGE / DENSITY	POSITION
1 y 4	ILUCS	polyester Trevira CS	265 g/m²	exposed sides
2 y 3	Carbon non-woven	100 % carbon fiber	210-250 g/m²	inner layers

Assembly thickness: 7-8 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	1.29 in the absorption test (4650 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

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	5 BREEAM documentable credits	5 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

 ILUCS polyester Trevira CS	 7-8 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 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 · insulation test report · reaction to fire classification · fabric certificates (OEKO-TEX, VOC emissions) · band coefficients 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	class A with 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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