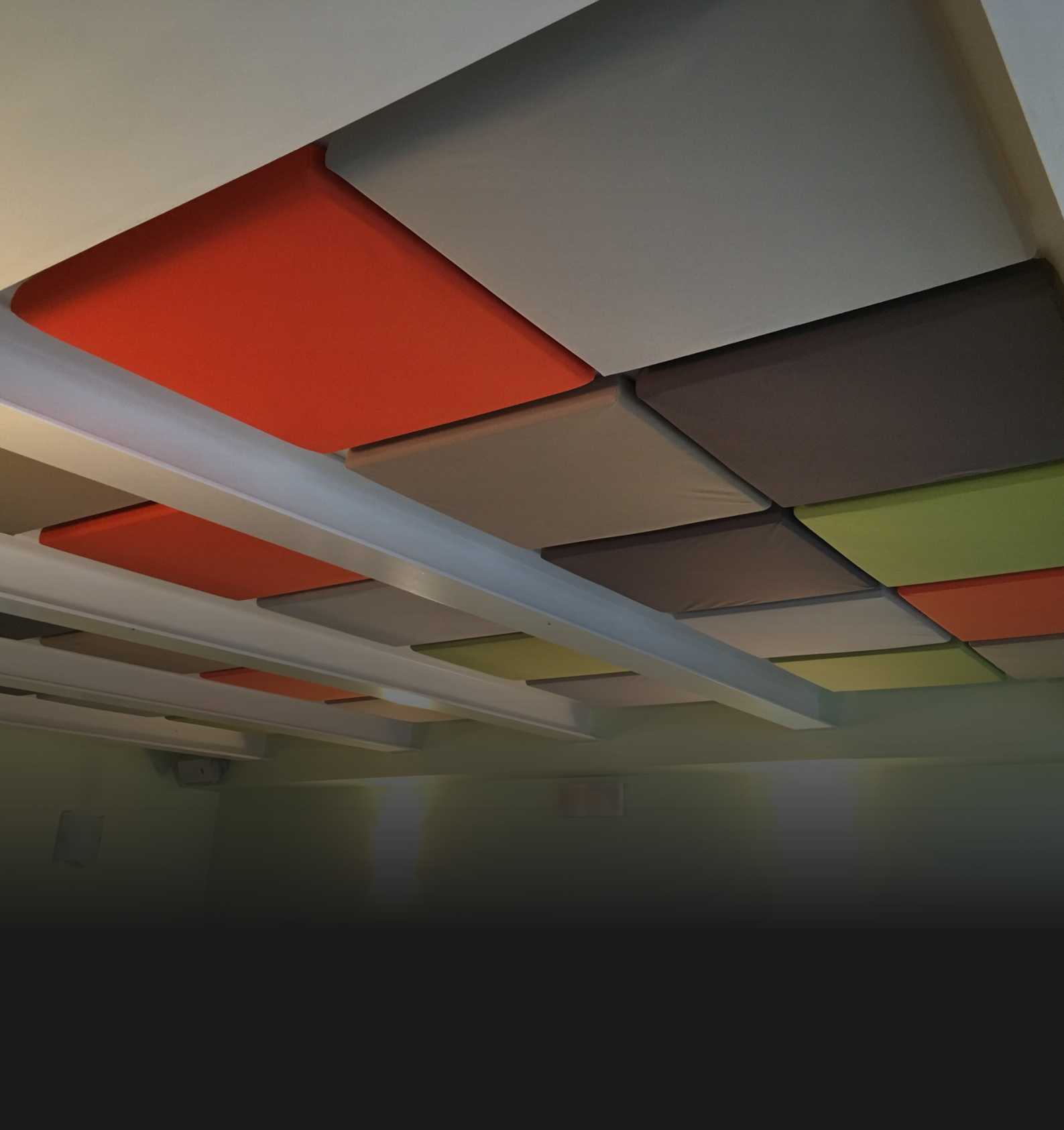




DGNB

What ISINAC contributes to the **New Buildings 2020**
International criteria set, criterion by criterion and with the points up front



ACOUSTIC SOLUTIONS · 2026

Weighted points, not standalone credits

DGNB does not work like LEED or BREEAM. Each criterion is scored **from 0 to 100** and is then multiplied by **a weighting that depends on the building's use profile**. The same criterion is worth a different amount in an office, a school or a hotel — and some criteria in residential **are worth zero**.

Section	What it assesses	Section weighting
ENV — Environmental	Life cycle, substances, resources, water, land, biodiversity	22.5 %
ECO — Economic	Life cycle costs, flexibility and adaptability	22.5 %
SOC — Sociocultural	Thermal comfort, indoor air, acoustics , light, accessibility	22.5 %
TEC — Technical	Envelope, sound insulation , circularity, immissions	15 %
PRO — Process	Quality of planning, construction and commissioning	12.5 %
SITE — Site	Site quality	5 %

Two criteria deal with acoustics, and they are not the same

SOC1.3 Acoustic comfort is **room acoustics**: reverberation, intelligibility, absorption. **This is where ISINAC comes in** and it is worth up to **110 points**.

TEC1.2 Sound insulation is **insulation** between rooms: it calls for partitions of **R'*w* ≥ 37 to 57 dB**. That is solved by the partition manufacturer, not by an absorbing panel. **Here ISINAC is not the compliance element and does not claim to be.**

The first question to ask about the project

Under which scheme and which version is it registered? This sheet is written against **New Buildings, VERSION 2020**

INTERNATIONAL, the one downloaded today from the official website for international projects.

For the **German 2023** criteria set, which refers to the QNG, **the page numbers in this sheet do not apply** and some criteria have been renumbered. Ask us for the version against that criteria set.

And what ISINAC is not

DGNB certifies the building, not the product. It is processed by the developer with a DGNB Auditor.

ISINAC is not DGNB certified, cannot be, and does not claim to be. What it supplies is the verified data the auditor needs for the calculation — and, in the acoustics criterion, in the exact format in which it is required.



Seven criteria, and in one of them we are the data

In most systems an acoustic manufacturer supplies an environmental declaration and little else. **DGNB has a whole room acoustics criterion** —SOC1.3— whose performance indicators are, literally, the figures ISINAC measures in the laboratory.

32 criteria in the 2020 International criteria set reviewed one by one	7 criteria with documented input from ISINAC 3 direct · 4 supporting	110 points in the acoustic comfort criterion SOC1.3, bonus included
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What each document provides

Document	Reference	What it feeds in DGNB
37 Tecnalía tests EN ISO 354 · EN ISO 11654 · EN ISO 10140-2 · laboratory accredited by ENAC	33 on absorption 4 on insulation	SOC1.3 — α_p per octave band, α_w and equivalent sound absorption area. This is the data that goes into the reverberation calculation
Environmental Product Declaration ISO 14025 + EN 15804+A2 · third-party critical review	EPD-IES-0033394:001 valid until 05/08/2031	ENV1.1 — input data for the building LCA, of the type the criteria set <i>prefers</i>
ISO 14001 and ISO 14006 Bureau Veritas · environmental management and ecodesign	ES163483 ES163477 · until 25/05/2029	ENV1.3 — corporate responsibility in resource extraction
ABSORBRELLA tests object sound absorption outdoors, Annex E of ISO 20189	118746-1 118746-3	TEC1.7 — data for calculating the reduction of noise immission to the surroundings
MAGNET system magnetic fixing, removable and refittable	catalogue standard in production	TEC1.6 and ECO2.1 — ease of dismantling and conversion of spaces
Indoor air quality certificate Indoor Advantage™ Gold, SCS Global Services	SCS-IAQ-11186 ILUCS and IZZER fabrics	SOC1.2 — helps keep the indoor air measurement low

Two warnings that save an argument with your auditor

SOC1.3 is worth 0 % in residential — its weighting is 2.0 % in offices, 2.7 % in education, 2.9 % in hotels and 3.1 % in assembly buildings. And **ENV1.2 is not answered with an environmental declaration**: it asks which substances the product contains and is answered with the Navigator material matrix.

SOC1.3 · Acoustic comfort

Up to 110 points · the criterion where ISINAC supplies the data, not an annex

The criterion is earned **through reverberation time** according to the use of each room. And its third performance indicator is, literally, **“mean equivalent sound absorption area”**: the quantity ISINAC measures in the reverberation room and supplies per octave band.

Ind.	What it scores and what ISINAC contributes	Points
1.1	Room acoustics concept drawn up and updated during planning. This is the indicator that rewards coming in early . ISINAC supplies the reverberation calculation room by room before the finishes are fixed, with the real α_p values of the chosen product Office · education · hotel: 20 · assembly buildings up to 40	20
2.1	Reverberation in individual offices of up to 40 m². Scored in bands on the arithmetic mean of T from 125 to 4000 Hz: $T \leq 0.8$ s gives the maximum Office: max. 20 · education and hotel: max. 10	20
3.1	Offices over 40 m². Cross-references the A/V ratio with reverberation time: with $A/V \geq 0.2 \text{ m}^{-1}$ and $T \leq 0.8$ s the full 30 points are awarded. That A/V ratio is equivalent sound absorption area per volume — it rises by adding absorption Office: max. 30 · others: max. 10	30
Re 3	Additional points for absorption in the ceiling. Literally: <i>“30 % of the mean equivalent sound absorption area in the ceiling → 5 points; 70 % → 10 points”</i> . This indicator describes the ISINAC product exactly Ceiling, or floor-to-ceiling partitions in open-plan offices	+10
4.1	Rooms with speech intelligibility requirements under DIN 18041:2016-03 (meeting rooms, seminar rooms, classrooms): +10 for meeting T_{target} and +10 more for addressing inclusive use — acoustics designed for people with hearing loss Office and hotel: max. 20 · education: max. 30	20
5.1	Rooms of group B3-B5 (cafeterias, libraries, break areas): compliance with the recommended A/V ratio from 250-2000 Hz Office: 10 · education: 30 · hotel: 40	10
6.1	AGENDA 2030 BONUS. Awarded if indicators 2 to 5 reach the target value and are confirmed by measurements on site Noise reduction, health and well-being	+10

The criterion's three performance indicators are our own figures

The criteria set names three KPIs for communicating this criterion: **room acoustics class**, **mean reverberation time** and **mean equivalent sound absorption area**. All three come from the same place: the reverberation room tests. **ISINAC supplies them per octave band and with the laboratory report behind them**, not as a rounded commercial datasheet.

ENV1.1 · Building life cycle assessment

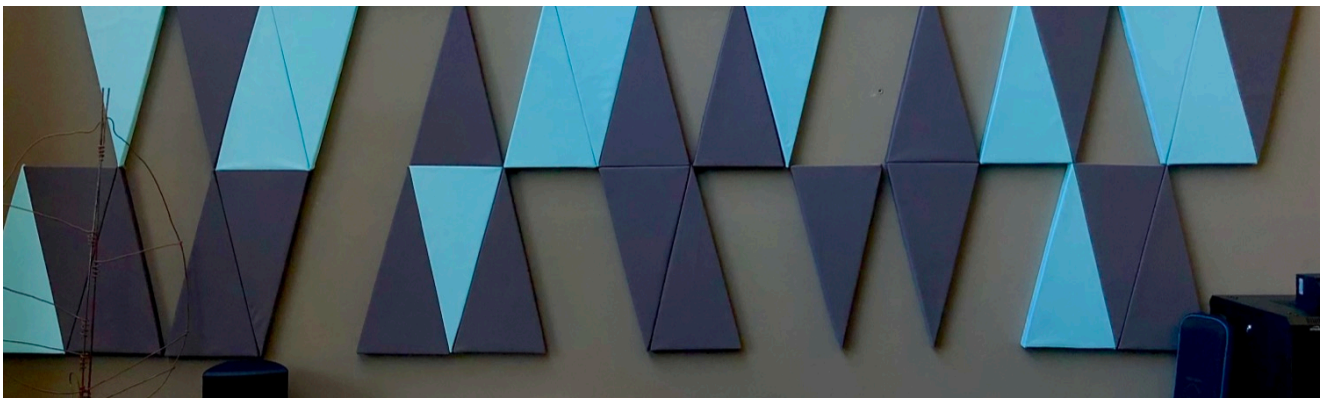
Up to 130 points with bonuses · the environmental declaration goes in here

What the criteria set requires	What ISINAC contributes	Where it says so
Input data for the building LCA	The declaration provides the modules already broken down: A1-A3 = 9.64 · A4 = 0.171 · A5 = 0.020 · B2 = 0.188 · C2 = 0.00861 · C4 = 0.214 kg CO ₂ eq/m ² (GWP-GHG), plus the remaining EN 15804 indicators. And it is supplied as a machine-readable Excel , which is what the calculation tools consume	ENV1.1, pp. 54 and 74 · EPD EPD-IES-0033394:001
That the EPD is preferred over generic data	Literally from the criteria set: product declarations <i>"should be preferred over general, generic life cycle assessment data"</i> . DGNB is not satisfied with the EPD merely existing: it puts its numbers inside the calculation , which is why a specific one displaces the generic database value	ENV1.1, p. 74
That it is valid at the time of use or purchase	It requires EN 15804 and validity at the time of use or of the purchase decision . The ISINAC one is EN 15804+A2 and is valid until 05/08/2031	ENV1.1, p. 75 · public Environdec record
Traceability of the data	If the auditor uses a product EPD this must be confirmed in writing . ISINAC supplies the declaration and its Excel so that confirmation is trivial	ENV1.1, p. 123

ENV1.3 · Sustainable resource extraction

Up to 100 points · a manufacturer contribution, not a product one

What the criteria set requires	What ISINAC contributes	Where it says so
Corporate responsibility of the manufacturer	The indicator scores by the number of accredited manufacturers: +3 for one, +6 for two, +9 for three, 12 with four or more . ISINAC provides ISO 14001 ES163483 and, less commonly, ISO 14006 for ecodesign ES163477 — valid until 25/05/2029	ENV1.3, p. 157 · Bureau Veritas certificates



Wall treatment in a videoconference room. Speech intelligibility is the aim of indicator 4.1 of SOC1.3.

Circularity, conversion and noise to the surroundings

Three criteria where the MAGNET system and ABSORBRELLA have something to say

Criterion	What it scores and what ISINAC contributes	Criterion maximum
TEC1.6 Ease of recovery and recycling	Recycling routes by quality level, ease of dismantling and of material separation . The MAGNET system replaces permanent bonding with magnetic fixing: the panel comes off whole and goes back up, without destroying it or damaging the substrate. The panel is also made of two materials , with no mineral fillers and no mixed laminates TEC1.6, p. 566	130
ECO2.1 Flexibility and adaptability	It rewards a building that can be converted without heavy works. Acoustic treatment that is removable and relocatable is exactly that: changing the use of a room does not force the treatment to be demolished, it is moved. IZZER COVER adds another layer: the fabric is changed without replacing the absorber ECO2.1, economic quality criterion	100
TEC1.7 Immissions control	Its indicator 1.1 gives up to 70 points for lowering the guide values for noise immission to the surroundings — 20 for meeting them, 40 for a 6 dB reduction, 70 for a 10 dB reduction . ISINAC has tested outdoor product: ABSORBRELLA , with object sound absorption $A_{obj} = 6.25 \text{ m}^2$ (Annex E of ISO 20189, Tecnia report 118746-1). ISINAC supplies the data; the reduction calculation is done by the project's acoustic consultant TEC1.7, p. 587	110

The manufacturer's backing

It does not score as a DGNB criterion, and the specification asks for it anyway.

CE marking

6 Declarations of Performance signed, with reaction to fire under **EN 13501-1**. A legal requirement for sale in the EU

Trevira CS® · OEKO-TEX®

Flame retardancy **intrinsic to the polymer** and screening of restricted substances in the fabrics. Required in public buildings and hospitality

Behind every figure there is a test

SOC1.3 is documented with **calculated reverberation times**, and a calculation is worth no more than the coefficient put inside it. That is why what ISINAC supplies is not a commercial datasheet: it is the full laboratory report.

Laboratory and accreditation

37 Tecnalia test reports —33 on absorption and 4 on insulation— to **EN ISO 354**, **EN ISO 11654** and **EN ISO 10140-2**. Tecnalia is accredited by **ENAC** and is a signatory to the **ILAC MRA**: its reports are valid in Germany without repeating the test.

Each report carries its number, its date and **its mounting condition**, which in acoustics changes the result. They are supplied in full.

The range, not a single product

The environmental declaration covers the 40 mm adhesive panel with ILUCS. **For the reverberation calculation the whole catalogue counts:**

Product	α_w	Report
WB HIGH PERFORMANCE	1.00 class A	110259-7
HYBRID	1.00 class A	B2019-LACUS-IN-83 I
CURTAIN ILUCS 4 layers	1.00 class A	B2019-LACUS-IN-54 V
WB ILUCS 33 mm	1.00	110259-5
IZZER COVER 40 mm	0.90	B2021-LACUS-IN-146-3

What ISINAC supplies on request, free of charge

Sound absorption coefficients per octave band for each product and the **reverberation time calculation for your rooms**, which is literally what SOC1.3 asks for · the full Tecnalia reports · the environmental declaration in Spanish and English and its **machine-readable indicator Excel** · the indoor air certificate and the ISO certificates · the Declarations of Performance.

And the calculation before the finishes are fixed, which is what turns indicator 1.1 of SOC1.3 into points: an acoustic concept drawn up during planning, not a check when nothing can be changed any more.



In room acoustics, ISINAC
does not supply an annex: **it supplies the data.**

Public environmental declaration · environdec.com/library/epd33394

Room reverberation calculation and octave-band coefficients, free of charge

berni@isinac.com · www.isinac.com

DGNB certifies buildings, not products: the points are obtained by the project through its DGNB Auditor, and this sheet neither anticipates them nor replaces that assessment. The point figures are the maxima the criteria set assigns to each criterion, not the contribution of a single product; the weighting of each criterion depends on the building's use profile. Reference criteria set: DGNB System – New buildings criteria set, VERSION 2020 INTERNATIONAL; for the German 2023 criteria set the page references do not apply.

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