WAYNERR®

HEALTHY HOUSING SOLUTIONS

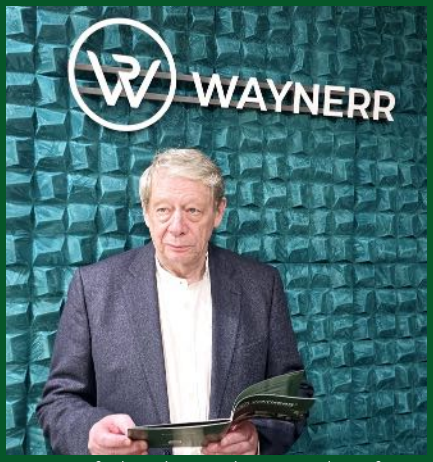
Swiss made

WAYNERR® Innovation

Production site is established in Courfaivre, Canton of Jura, Switzerland. It smoothly blends in with historically strong manufacturing heritage of the Canton and strengthens Cantonal & Federal efforts upgrading business to a sustainable and circular future. **WAYNERR®** technology has been developed for over 40 years by Doctor of chemistry science and Professor Efim Vaynerman. He has studied Physical chemistry of Biopolymers with the focus on collagen and its capacity to be recycled.

WAYNERR® Research & Development is conducted by our internal team with the support of Swiss Confederation, Innosuisse and scientific institutions.

We trust that our innovation will help improve sustainability and circularity in the world, shall reduce human-made pollution for the better future. Your support is essential in this journey as it will help us advance with a faster industrial implementation to make it worldwide available.



*Doctor of chemistry science and Professor **Efim Vaynerman***

IN PARTNERSHIP WITH:

MASSCHALLENGE

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

JURA CH
RÉPUBLIQUE ET CANTON DU JURA

alliance

SWISS INNOVATION CHALLENGE

CBI Booster

circular economy TRANSITION

IMPACT HUB Switzerland

WAYNERR® APPLICATIONS

Unique structure provides unparalleled sustainability & premium technical parameters


Sustainable
Lightweight
100%
Natural
Soundproof
Up to A class
reaction to fire
CE
Certified
Low profile
EPD
Pending

WAYNERR® IS AN INNOVATIVE AND UNIQUE PATENTED TECHNOLOGY.

WAYNERR® PROVIDES UNIQUE STRUCTURE WITH PREMIUM PHYSICAL AND CHEMICAL PROPERTIES:

- Sustainable: by transforming leather side products into valuable, high-quality insulation material, we pave the way for an eco-friendly and economically viable future.
- 100% natural: made from natural materials that can be recycled.
- Up to A class reaction to fire: it is made of material which pronounces safety.
- Low profile: we elevate your spaces without compromise.
- Lightweight material: removes unnecessary weight from the structures.
- Soundproof: **WAYNERR®** panels offer outstanding sound absorption and sound reduction.
- EPD certification pending: impressive LCA results.

WAYNERR®
HEALTHY HOUSING SOLUTIONS

ACOUSTIC SOLUTIONS vs ACOUSTICS:

Sound absorption solutions

Application areas: Office spaces, meeting rooms, conference rooms, concert halls, cinemas, acoustic cabins, individual projects.

For the Projects valuing Silence

- Effectively absorbs sound up to 100%.
- Quick installation using just assembly glue. Area Installation of 12 m² takes up to 10 min.
- The solutions are low-profile saving precious space.

Features:

- Sustainable & Circular Products
- Easy & Fast Installation – on the walls, ceilings, mobile sound screens
- Effective sound reverberation reduction
- Low-Profile Modules (up to 5 cm)
- Premium touch & Feel
- Instant integration of interior design
- Long-term solution with 30 Years Guarantee*
- Swiss quality

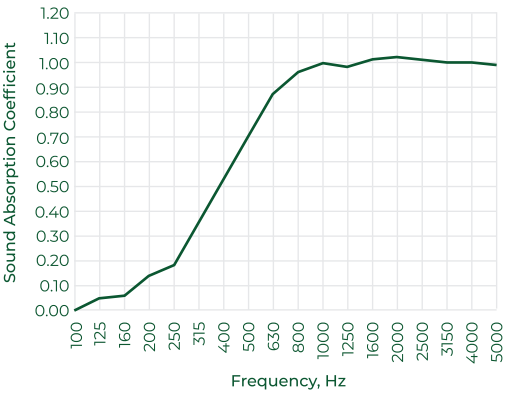
SOUND ABSORPTION - SINGLE PANELS

SKU : WA-ID

INTERIOR PANEL (W/O FILLER)

Class D, α_w = 0.5 (MH), NRC = 0.70

- WAYNERR® thermal-sound insulation panel PS700-65, 2 cm thickness.
- With / without texture
  With / without color
  Thickness from 15 mm

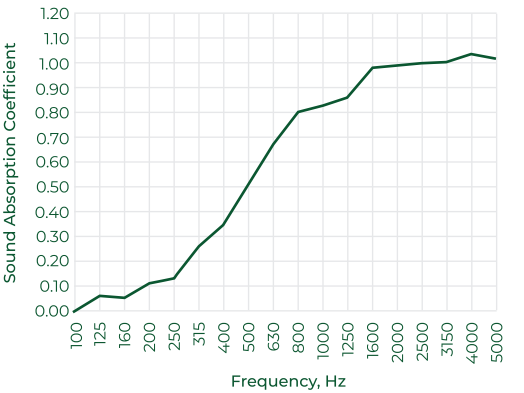


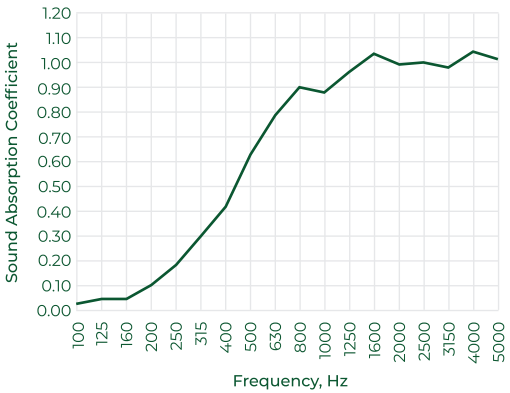
SKU : WA-TN-SA80

THERMAL-NOISE PANEL WITH SAND

Class D, α_w = 0.45 (MH), NRC = 0.60

- WAYNERR® thermal-sound insulation panel SA80, 1.5 cm thickness.
- Without texture / color
  Thickness from 15 mm





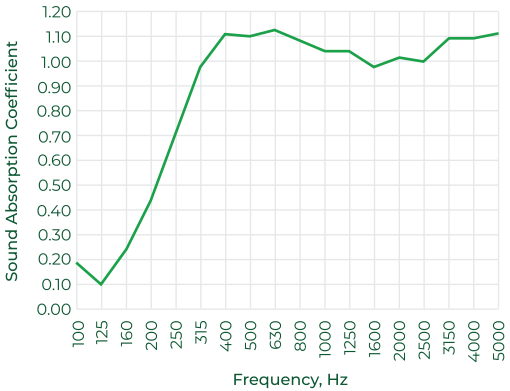
SKU : WA-TN-PO03

THERMAL-NOISE PANEL WITH RECYCLED GLASS

Class D, α_w = 0.5 (MH), NRC = 0.65

Without texture / color
Thickness from 15 mm

SOUND ABSORPTION - SANDWICH SYSTEMS



SKU : WA-AC-SAID

SAND + INTERIOR PANEL

Class A, α_w = 1.0 (MH), NRC = 0.95

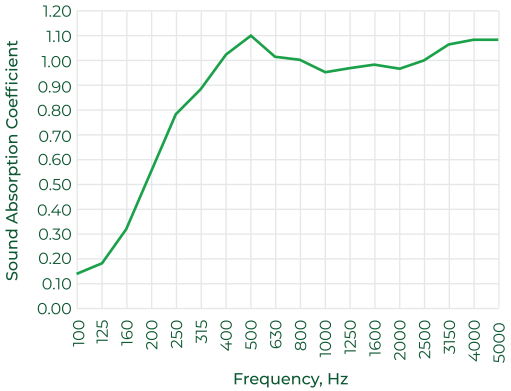
Without texture/color
Thickness from 35 mm

SKU : WA-AC-2PO

2 LAYERS OF RECYCLED GLASS PANELS

Class A, α_w = 1.0 (MH), NRC = 0.95

- Without texture/color
  Thickness from 35 mm

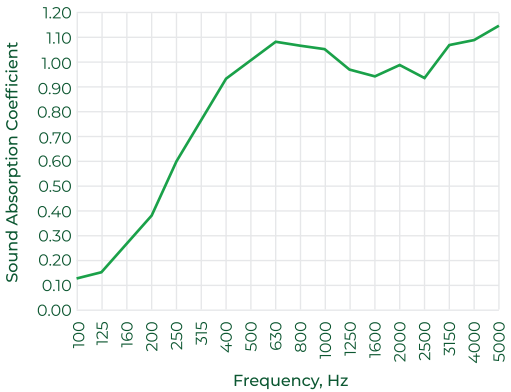


SKU : WA-AC-2SA

2 LAYERS OF SAND PANELS

Class A, α_w = 0.9 (MH), NRC = 0.9

- Without texture/color
  Thickness from 30 mm



WAYNERR®
HEALTHY HOUSING SOLUTIONS

Sound reduction solutions with Rw > 40 dB

Basic wall construction: 1x12,5 mm Wallboard, 70 mm C-Stud standart @ 600 mm Centres, 1x 12,5 mm Wallboard	Enhancement (receive side)	Tested Sound Insulation, Rw (C; Ctr)	Improvement on Basic Wall, Rw
	None	35 (-2;-7) dB	N/A
	20 mm **WAYNERR**® SA80	38 (-2;-7) dB	3 dB
	20 mm WAYNERR® SA80 +12.5 mm Wallboard	41 (-3; -10) dB	6 dB
	20 mm WAYNERR® SA80 +12.5 mm Wallboard +30 mm WAYNERR® Studio	41 (-3; -9) dB	6 dB
	20 mm WAYNERR® PS700-65	37 (-2; -8) dB	2 dB
	20 mm WAYNERR® PS700-65 + 12.5 mm Wallboard	39 (-2; -9) dB	4 dB
	20 mm WAYNERR® PS700-65 + 12.5 mm Wallboard + 30 mm WAYNERR® Studio	40 (-3; -9) dB	5 dB
	20 mm WAYNERR® P003-65 + 20 mm WAYNERR® P005-65 + 12.5 mm Wallboard + 30 mm WAYNERR® Studio	44 (-5; -13) dB	9 dB

WAYNERR® thermal noise insulation panels can provide up to a 9 dB uplift on a standard single stud wall, when used in combination with each other and additional wallboard as shown above/below.

The **WAYNERR®** system is ideal for use where you need to enhance sound insulation of existing walls which are just falling short of the required acoustic standards, such as in refurbishment projects or where remedial measures are needed during construction or on completion.

With the simple application of a single SA80 **WAYNERR®** panel and 1 sheet of standard non-acoustic wallboard to one side of a stud wall, you can enhance internal walls so that they exceed a 40 dB R_w requirement – making them suitable for a wide variety of applications.

Benefits:

- Dust - free surface
- Air - Conditioning effect
- Laboratory tested & proven

Example Applications:

Offices, Education and Healthcare – 40 dB R_w is a typical requirement for corridor walls that contain a door in these types of spaces (to non-acoustically sensitive rooms).

Residential – requirement E2 of the Part E of the Building Regulations requires that new internal walls that separate a bedroom from a bedroom, or from a room that contains a toilet (excluding en-suites) within a house/flat must have a laboratory-rated sound insulation value of ≥ 40 dB R_w.

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HEALTHY HOUSING SOLUTIONS

INTERIOR DÉCOR PANELS

Transforming interiors was never so easy. Vivid colors, variety of textures, for supreme projects even natural colorants can be used. WAYNERR® Interior décor panels enable architects and interior designers materialize any idea. Our panels add a premium touch and mark your engagement into sustainability. It significantly reduces noise, insulates against temperature loss, assists in regulating microclimate (by reducing air humidity) can be also immersed in scents of your choice to strengthen the brand's identity.

Other characteristics:

- Custom design
- Variety of color, textures, scents
- Dust - free surface
- Air - Conditioning effect
- Sustainable product

TECHNICAL INFORMATION INTERIOR DÉCOR:

PARAMETER	UNIT	AVERAGE VALUE
HEAT CONDUCTIVITY	λ	0.034
SPECIFIC HEAT CAPACITY	J/Kg K	3.000
THERMAL DIFFUSIVITY	m^2/sec	2*10-7
ACOUSTIC ABSORPTION 10 mm freq, Hz	Absorbtion coefficient α	
2000 4000		0.89 0.64
IMPACT NOISE	dB	21
thickness 10 mm thickness 20 mm		26 34
DENSITY	Kg/m^3	20-80
TENSILE STRENGTH	κPa	100-130
ELONGATION AT BREAK	%	20-30
Surface compression strengthening 40 % deformation	κPa	75-95
Straight after decompression After 30 min After 60 min		15-95 4-7 1-4
WATER VAPOUR TRANSMISSION RATE	mg/m^2*h	15-25
MINERAL FILLER	-	None
PANEL THICKNESS	-	From 15 mm
SURFACE DENSITY	Internal testing	0,5 - 1,5 kg/m^2
COMPRESSION PRESSURE MEASUREMENTS	Internal testing	125.6 kPa
TENSILE-STRENGTH MEASUREMENTS	Internal testing	141.95 kPa
THERMAL CONDUCTIVITY, λ	EN ISO 10456:2008	0.034
SOUND ABSORBTION	BS EN ISO 354:2003 BS EN ISO 11654:1997 ASTM C 423- 01	α_w 0.50 MH Class D NRC 0.7
ACCELERATED AGING TEST (HALT)	UNI EN ISO 17228:2015	Passed (<4%)
VOCS (volatile organic compounds), GLYCOLS, CRESOLS	OEKOTEX® Method 17	Passed (not detected)
DETERMINATION OF THE VOLATILE MATTER (VOC)	OEKOTEX® Leather Standard	Passed (n.d)
PESTICIDES	OEKOTEX® Leather Standard	Passed (n.d)
CHROMIUM VI	OEKOTEX® Leather Standard	Passed (n.d)

TEXTURE AND COLOURS

CIRCLES

The texture reminds a system of circles & octagons. This forms a planet – like view on the wall.

AVAILABLE COLOURS:

DEEP PURPLE

NATURAL WHITE

ANCIENT GOLD

NAVY BLUE

VIVID GREEN

OPAL BLACK

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WAVES

A wavy profile creates dynamic visual impression and generates the notion of fluidity.

AVAILABLE COLOURS:

DEEP PURPLE

NATURAL WHITE

ANCIENT GOLD

NAVY BLUE

VIVID GREEN

OPAL BLACK

STUDIO

Partly separated irregular cones system along with the lighting system shall impress everyone.

AVAILABLE COLOURS:

DEEP PURPLE

NATURAL WHITE

ANCIENT GOLD

NAVY BLUE

VIVID GREEN

OPAL BLACK

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LINES

This texture is made of perpendicularly crossing line groups. This looks very orderly on the wall.

AVAILABLE COLOURS:

DEEP PURPLE

NATURAL WHITE

ANCIENT GOLD

NAVY BLUE

VIVID GREEN

OPAL BLACK

PLAIT

The panel reminds the plait, each part of it covers the other one. This gives a solid wall design.

AVAILABLE COLOURS:

DEEP PURPLE

NATURAL WHITE

ANCIENT GOLD

NAVY BLUE

VIVID GREEN

OPAL BLACK

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INSULATION PANELS

Competitive Advantage

01 Modern ecological materials, safe for environment and humans

02 Materials are safe for use in buildings - class A2 (s1, d0) reaction to fire

03 Material is 100% recycled and re-recyclable

04 Low lambda and good acoustics properties

WAYNERR® is produced from sustainable leather - this way leather side products are given a second life, reduce carbon footprint and improve sustainability.

These panels are widely used in construction for walls, roofs, and floors due to their excellent thermal performance, lightweight nature, and ease of installation. They offer superior energy efficiency, helping to maintain stable indoor temperatures and reduce heating and cooling costs. Insulation panels are versatile, low profile and lightweight. The suggested application is for residential, commercial and industrial buildings.

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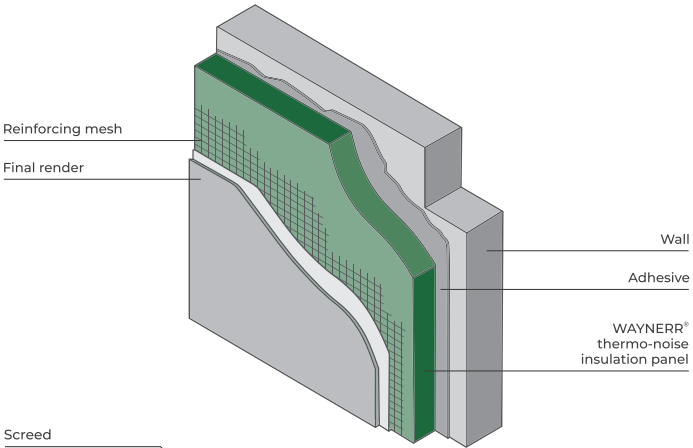
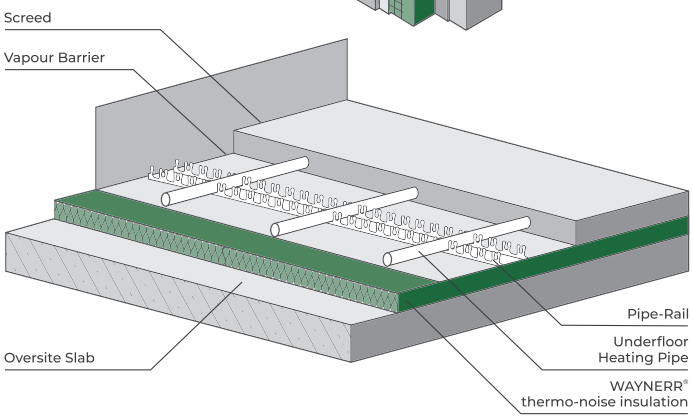
We have discovered a new and highly sustainable way on insulation. Using WAYNERR® Insulation panels internally in the building, prevents from temperature loss, protects against fire and improves sound quality. WAYNERR® Insulation panels contain macroporous leather and sand or recycled glass. With such composition it is sustainable, lightweight and long-term product with top in a class technical parameters for insulation.

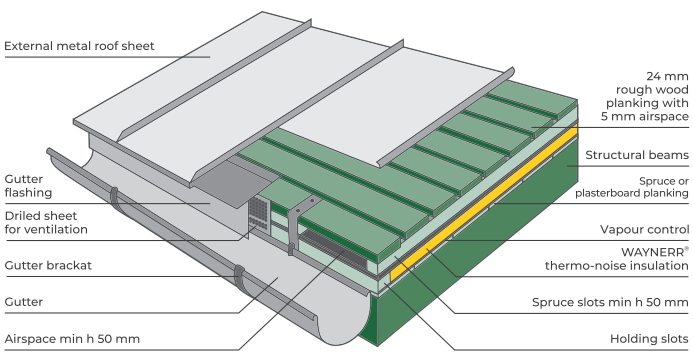
		Standards	WA-TN-SA80	WA-TN-PO03
TECHNICAL INFORMATION:	Mineral filler	-	Quartz Type Sand	Recycled Glass 1-3 mm
	Panel Thickness	-	15 mm	15 mm
	Surface density	Internal testing	200 kg/m^3	150 kg/m^3
	Weight, per 1 m^2	Internal testing	2.0 kg	1.5 kg
	Compression Pressure measurements	Internal testing	198.69 kPa	244.56 kPa
	Tensile-Strength measurements	Internal testing	76.76 kPa	68.56 kPa
	Thermal Conductivity, λ	EN ISO 10456:2008	0.049	0.044
	Classification of reaction to fire performance	NF EN ISO 1716 : 2018 NF EN 13501-1: 2018 NF EN 13823+A1 : 2022	A2 (s1,d0)	B (s2,d0)
	Sound Absorbtion	BS EN ISO 354:2003 BS EN ISO 11654:1997 ASTM C 423- 01	α_w 0.45 MH Class D NRC 0.60	α_w 0.50 MH Class D NRC 0.65
	Sound Reduction (Improvement on Basic Wall, R_w)	BS EN ISO 10140-2: 2021	3 dB	2 dB
	Accelerated Aging Test (HALT)	UNI EN ISO 17228:2015	Passed	Pending



WALL INSULATION



UNDER FLOOR INSULATION



ROOF INSULATION

SWISS INNOVATION

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