IMPACT ACOUSTIC®

HABITAT MATTER

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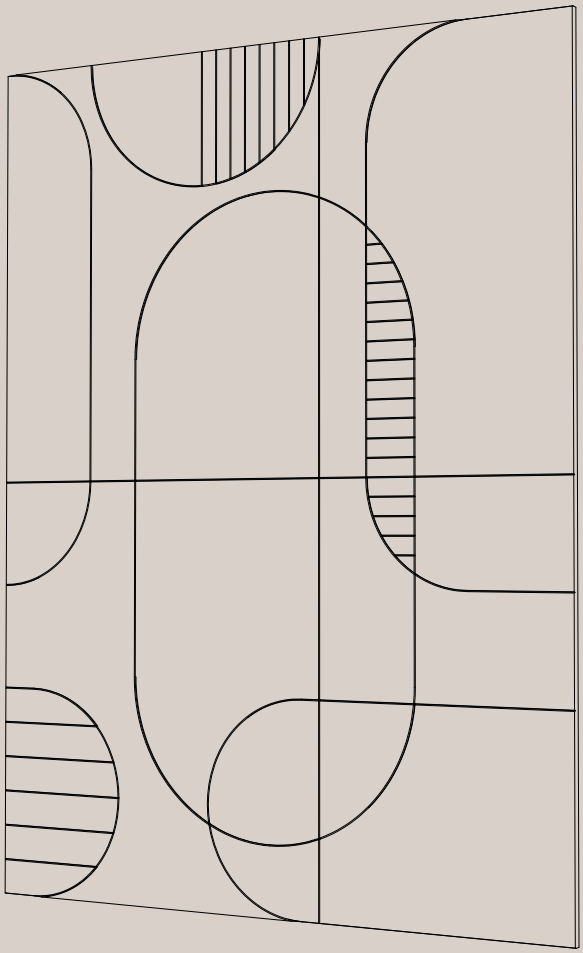
spec@habitatmatter.com



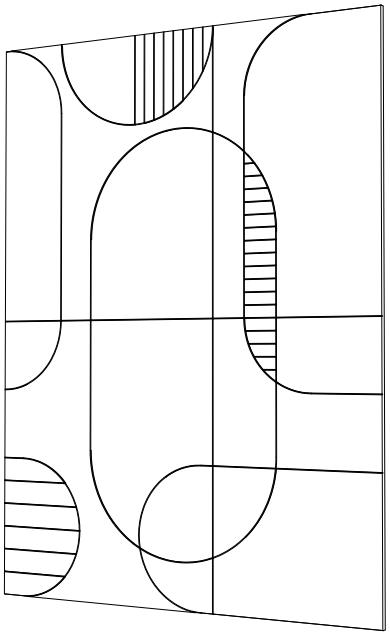
Vela

Wall Covering

732.24.28.000.00
732.12.28.000.00

TECHNICAL DATA SHEET

Vela
Wall Covering



Article Number
732.24.28.000.00

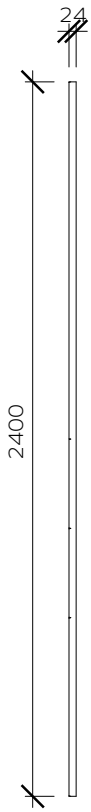
Dimensions

Length	1800mm	70.86″
Width	2400mm	94.48″
Thickness	24mm	0.94″

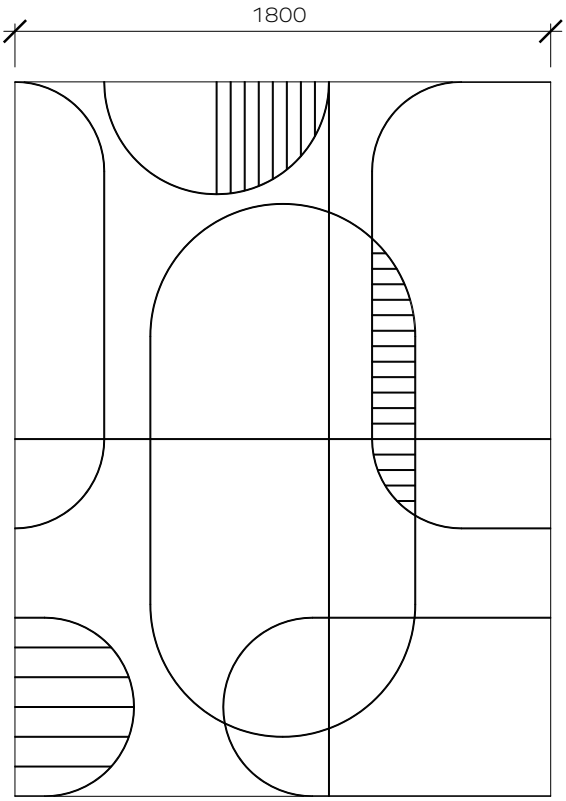
Assembly
Vela is mounted with a biodegradable contact spray adhesive.

Information
1 pc., incl. installation kit

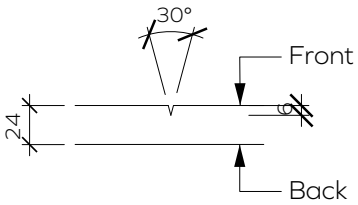
Side



Front



V-cut Detail



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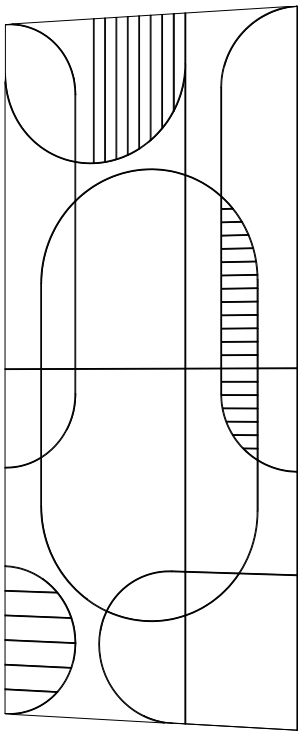
Vela
Wall Covering



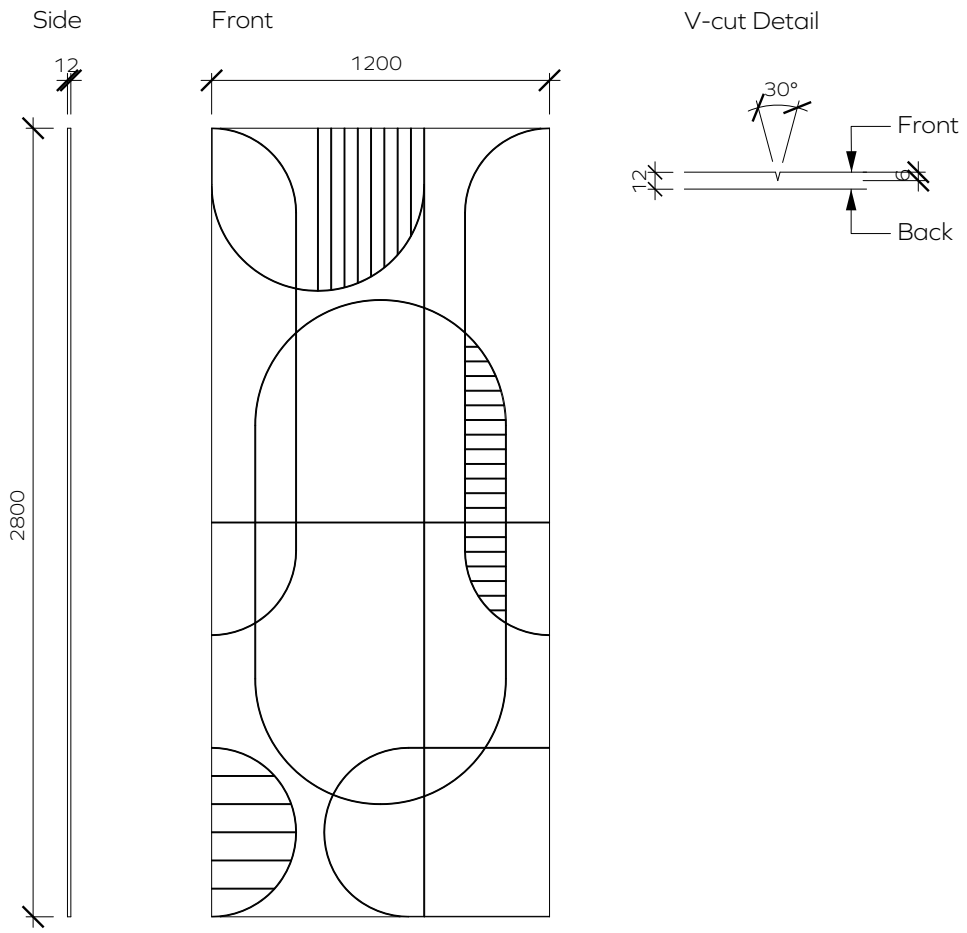
Article Number
732.12.28.000.00

Dimensions

Length	1200mm	47.24"
Width	2800mm	110.23"
Thickness	12mm	0.47"

Assembly
Vela is mounted with a biodegradable contact spray adhesive.

Information
1 pc., incl. installation kit



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Vela
Wall Covering

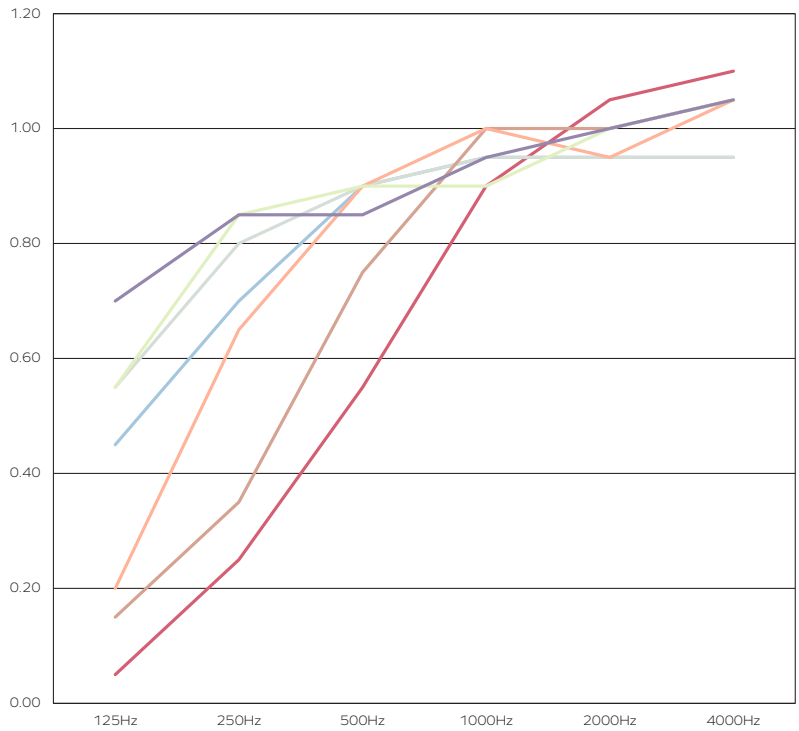
Acoustic Technical Specifications

Vela Wall Covering 24mm

Frequency (Hz)	125	250	500	1000	2000	4000	αw	NRC
Archisonic 24mm	0.05	0.25	0.55	0.90	1.05	1.10	0.55	0.70
Archisonic 24mm with 40mm insulation	0.45	0.70	0.90	0.95	0.95	0.95	0.80	0.90
Archisonic 24mm with 50mm insulation	0.55	0.80	0.90	0.95	0.95	0.95	0.85	0.90
Archisonic 24mm with 50mm air cavity	0.15	0.35	0.75	1.00	1.00	1.05	0.65	0.80
Archisonic 24mm with 100mm air cavity	0.20	0.65	0.90	1.00	0.95	1.05	0.90	0.90
Archisonic 24mm with 200mm air cavity	0.55	0.85	0.90	0.90	1.00	1.05	0.95	0.90
Archisonic 24mm with 300mm air cavity	0.70	0.85	0.85	0.95	1.00	1.05	0.95	0.90

Sound Absorption Coefficient (αs) according to EN ISO 354
Universität Stuttgart – Institut für Akustik und Bauphysik IABP

University of Stuttgart
Germany



"It's all about mass, depth and density when considering wall panels, the more surface you cover the more you can absorb. It's not recommended to hang a wall panel on your colleague and turn him into a walking billboard as he won't absorb your sense of humour."

– Daniel Verlooven,
Global Acoustic Ambassador

- Archisonic 24mm
- Archisonic 24mm with 50mm insulation
- Archisonic 24mm with 100mm air cavity
- Archisonic 24mm with 300mm air cavity
- Archisonic 24mm with 40mm insulation
- Archisonic 24mm with 50mm air cavity
- Archisonic 24mm with 200mm air cavity

The graph represents the sound absorption coefficients (αs) in the third octave band center frequencies. Measurement used Pink Noise as excitation signal in a reverberant room.

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Vela
Wall Covering

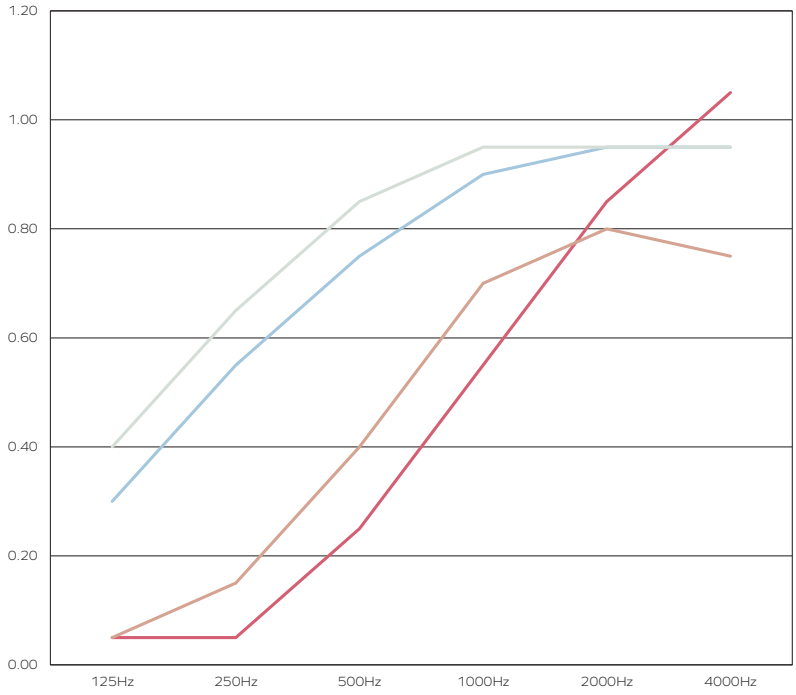
Acoustic Technical Specifications

Vela Wall Covering 12mm

Frequency (Hz)	125	250	500	1000	2000	4000	αw	NRC
Archisonic 12mm	0.05	0.05	0.25	0.55	0.85	1.05	0.30	0.45
Archisonic 12mm with 40mm insulation	0.30	0.55	0.75	0.90	0.95	0.95	0.75	0.80
Archisonic 12mm with 50mm insulation	0.40	0.65	0.85	0.95	0.95	0.95	0.80	0.85
Archisonic 12mm with 50mm air cavity	0.05	0.15	0.40	0.70	0.80	0.75	0.50	0.50

Sound Absorption Coefficient (αs) according to EN ISO 354
Universität Stuttgart – Institut für Akustik und Bauphysik IABP

University of Stuttgart
Germany



"It's all about mass, depth and density when considering wall panels, the more surface you cover the more you can absorb. It's not recommended to hang a wall panel on your colleague and turn him into a walking billboard as he won't absorb your sense of humour."

– Daniel Verlooven,
Global Acoustic Ambassador

- Archisonic 12mm
- Archisonic 12mm with 50mm insulation
- Archisonic 12mm with 40mm insulation
- Archisonic 12mm with 50mm air cavity

The graph represents the sound absorption coefficients (αs) in the third octave band center frequencies. Measurement used Pink Noise as excitation signal in a reverberant room.

ARCHISONIC®
Colours

Quiet Neutrals

12mm & 24 mm

These shades work in harmony with natural textural materials and soften industrial environments. From light to dark and cool to warm, these are the foundations of any scheme where longevity and a mood of calm is desired.

Warm Naturals

12mm & 24 mm

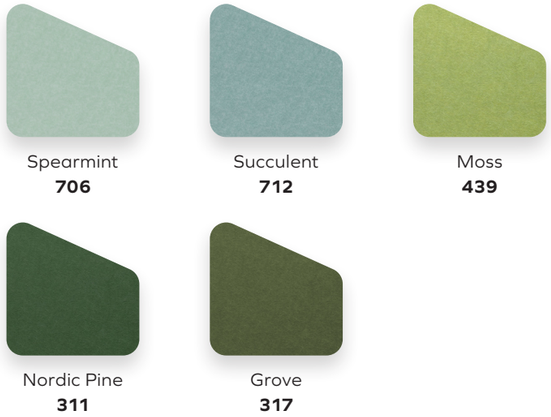
Combinations of lighter toned neutrals and pinks have a gently soothing and restorative effect while the more saturated hues make perfect environments for relaxation.

ARCHISONIC®
Colours

Living Greens

12mm & 24 mm

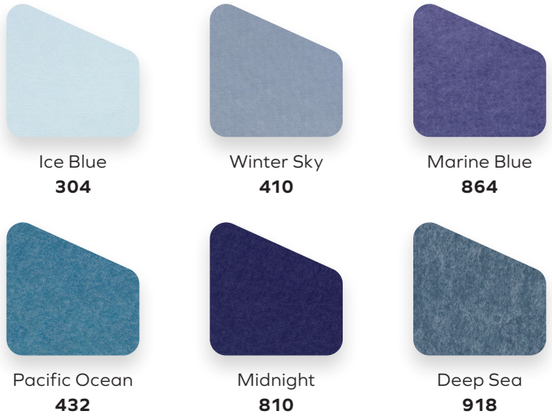
From the cool greens of forests to the yellowed aspect of young wheat, we see Living Greens breathing life into indoor spaces, and an essential palette for the future. Use in tonal layers brings the depth and diversity of green, while a single note can provide an amplifying backdrop to a biophilic space.



Elemental Blues

12mm & 24 mm

These blues work perfectly both as familiar single hues and in effortless tonal layers to create an immersive environment for focus or restoration.



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ARCHISONIC®
Colours

Soothing Pastels

12mm & 24 mm

With tonal duos of pink and blue and green, this perfectly balanced group is designed for peaceful plays on light and shade and playful contrast. While the lightest tones have a dreamlike quality, their deeper counterparts add a subtle grounding.

Shell Pink **102**
Soft Coral **516**
Ice Blue **304**
Winter Sky **410**
Spearmint **706**
Succulent **712**

Elegant Darks

12mm & 24 mm

While colour can create a mood, it is the depth or lightness of a hue that truly defines the emotion. While each hue has the strength to stand alone, beautiful effects can be achieved with harmonized pairs.

Garnet **724**
Marine Blue **864**
Midnight **810**
Nordic Pine **311**
Raven **550**

ARCHISONIC®
Colours

Energetic Brights

12mm & 24 mm

There are no rules here with endless possibilities for clashing contrasts or surprising highlights. For a sophis-ti-cated use of energetic colour, take a single hue and colour match con-trasting textiles and solid surfaces.

Pacific Ocean **432**
Moss **439**
Sunshine **846**
Electric Orange **464**
Hot Pink **140**

Primary Play

12mm & 24 mm

The primary story happens when all three main colours are used together, with varied proportions creating differing moods. As with the Energetic Brights palette, combine with coordinating-coloured textiles and solid surfaces.

Snow White **500**
Charcoal **542**
Sunshine **846**
Poster Red **662**
Marine Blue **864**

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ARCHISONIC®
Material

Composition

100% PET (60% certified post-consumer content)

Material Reutilisation

24mm
88 PET bottles/m²

12mm
53 PET bottles/m²

Density

24mm
4000 g/m² (+/-10%)

12mm
2400 g/m² (+/-10%)

Dimensions Raw Panels

24mm
1800 x 2400 x 24mm
70" x 94" x 0.94" (+/-7%)

12mm
1200 x 2800 x 12mm
47" x 110" x 0.47" (+/-7%)

Fire Test

B-s1, d0
DIN EN 13501-1

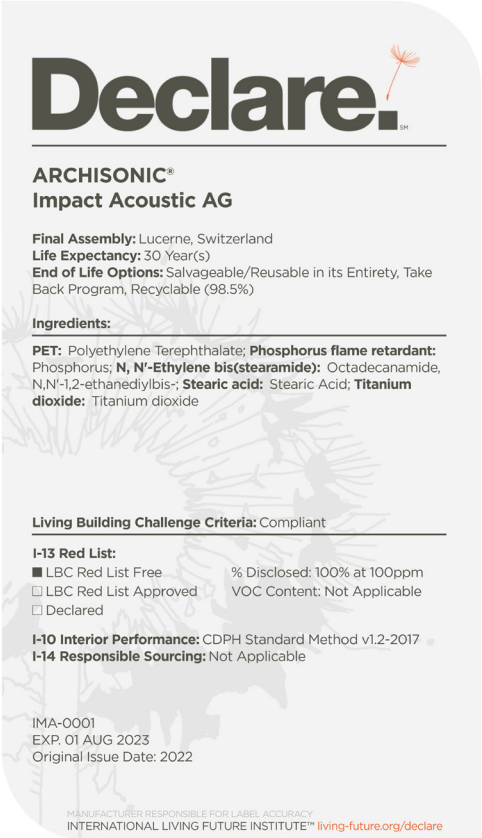
Class A
ASTM E84

VOC Emission

A+
28 Days French Regulation

Pass
14 Days CDPH/EHLB

ÉMISSIONS DANS L'AIR INTÉRIEUR*
A+
A+ A B C


Declare.

ARCHISONIC®
Impact Acoustic AG

Final Assembly: Lucerne, Switzerland
Life Expectancy: 30 Year(s)
End of Life Options: Salvageable/Reusable in its Entirety, Take Back Program, Recyclable (98.5%)

Ingredients:

PET: Polyethylene Terephthalate; **Phosphorus flame retardant:** Phosphorus; **N, N'-Ethylene bis(stearamide):** Octadecanamide, N,N'-1,2-ethanediylbis-; **Stearic acid:** Stearic Acid; **Titanium dioxide:** Titanium dioxide

Living Building Challenge Criteria: Compliant

I-13 Red List:
■ LBC Red List Free
☐ LBC Red List Approved
☐ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: CDPH Standard Method v1.2-2017
I-14 Responsible Sourcing: Not Applicable

IMA-0001
EXP. 01 AUG 2023
Original Issue Date: 2022

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Care Instructions

PET fibres do not provide a breeding ground for bacteria and other germs. The dyed-through fibres do not bleach out even when using aggressive cleaning agents and disinfectants. Alcohols, aldehydes or active chlorine can be used for cleaning.

For daily cleaning we recommend alcohol solution (75%), e.g. Pantasept. In case of contamination by dust or fluff, use feather duster or a regular vacuum cleaner. For heavy dirt, treat the material with hydrogen peroxide.

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ARCHISONIC®
Material

Matching NCS Colour Codes

Developed by Colour Hive

Quiet Neutrals	500	103	442	108	542	444	550
NCS Code	S 0300-N	S 1002-B	S 3005-R80B	S 5005-Y20R	S 7502-B	S 4500-N	S 8500-N
Warm Naturals	105	404	102	516	239	724	
NCS Code	S 3010-Y50R	S 0502-Y	S 0510-R30B	S 2020-Y90R	S 4040-Y70R	S 5040-R10B	
Living Greens	706	712	439	311	317		
NCS Code	S 1010-B90G	S 3020-B30G	S 2040-G40Y	S 5030-G10Y	S 7020-G30Y		
Elemental Blues	304	410	864	432	810		
NCS Code	S 0510-B	S 2020-R90B	S 4050-R70B	S 3040-B	S 7020-R70B		
Soothing Pastels	102	516	304	410	706	712	
NCS Code	S 0510-R30B	S 2020-Y90R	S 0510-B	S 2020-R90B	S 1010-B90G	S 3020-B30G	
Elegant Darks	724	846	810	311	550		
NCS Code	S 5040-R10B	S 4050-R70B	S 7020-R70B	S 5030-G10Y	S 8500-N		
Energetic Brights	432	439	846	464	140	540	
NCS Code	S 3040-B	S 2040-G40Y	S 1040-Y10R	S 0580-Y70R	S 2060-R20B	S 5040-R40B	
Primary Play	500	542	846	662	864		
NCS Code	S 0300-N	S 7502-B	S 1040-Y10R	S 1080-R	S 4050-R70B		

These NCS codes are the closest visual match available and may not be exact to blended fibres.

Colour fastness

Class 6

ISO 105-B02:A1

Colour and surface deviation

ARCHISONIC® is manufactured to the highest quality standards, but slight colour and surface variations caused by the high percentage of recycled fibers are an unavoidable part of the product characteristics and do not claim warranty. Please request a free sample box to verify the colours.

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ARCHISONIC®
Material

Light Reflection

Hochschule Luzern – Institut für Gebäudetechnik | Energie

HSLU Hochschule Luzern

Quiet Neutrals	500	103	442	108	542	444	550
Reflectance ρ	**61.9%**	**51.4%**	**34.6%**	**22.5%**	**6% 1**	**7.9%**	**2.6%**
Warm Naturals	105	404	102	516	239	724	
Reflectance ρ	**27.5%**	**59.3%**	**55.2%**	**34.1%**	**10.3%**	**4.1%**	
Living Greens	706	712	439	311	317		
Reflectance ρ	**51.7%**	**27.7%**	**33.2%**	**10.3%**	**9.6%**		
Elemental Blues	304	410	864	432	810		
Reflectance ρ	**60%**	**32%**	**9.5%**	**15.2%**	**3.7%**		
Soothing Pastels	102	516	304	410	706	712	
Reflectance ρ	**55.2%**	**34.1%**	**60%**	**32%**	**51.7%**	**27.7%**	
Elegant Darks	724	846	810	311	550		
Reflectance ρ	**4.1%**	**9.7%**	**3.7%**	**10.3%**	**2.6%**		
Energetic Brights	432	439	846	464	140	540	
Reflectance ρ	**15.2%**	**33.2%**	**44.3%**	**26.8%**	**12.2%**	**5.5%**	
Primary Play	500	542	846	662	864		
Reflectance ρ	**61.9%**	**6%**	**44.3%**	**12.5%**	**9.5%**		

Sustainability

CERTIFIED cradle to cradle BRONZE

CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION UL.COM/EPD

U.S. GREEN BUILDING COUNCIL MEMBER

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN LEED

Bewertung eco 1 eco-bau

CERTIFIED RECYCLED CONTENT SCS GLOBAL SERVICES
MINIMUM 60% RECYCLED CONTENT POST-CONSUMER

Supported by eit Climate-KIC

Climate-KIC is supported by the EIT, a body of the European Union

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#We MakeAn Impact

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