IMPACT ACOUSTIC®

ARCHISONIC®
Felt

812.10.24.000.00
812.10.12.000.00

TECHNICAL DATA SHEET

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.

Snow White
500

Cloud
103


Smoke
442


Gull
144


Ground
108


Charcoal
542


Slate
444


Raven
550


Linen
107


Jute
920

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.


Warm Stone
105

Milk
404

Shell Pink
102


Soft Coral
516


Terracotta
239


Garnet
724


Linen
107


Jute
920


Honeycomb
139

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.

Spearmint
706

Succulent
712

Moss
439

Nordic Pine
311

Grove
317

Fern
180

Lichen
160

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.

Ice Blue
304

Winter Sky
410

Marine Blue
864

Pacific Ocean
432

Midnight
810

Deep Sea
918

True Navy
194

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

Grape
540

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

ARCHISONIC®
Felt

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

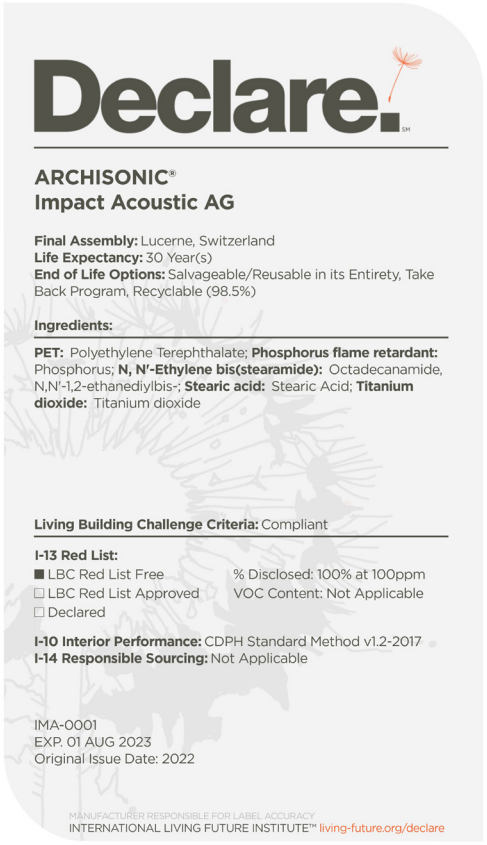
B-s1, d0
DIN EN 13501-1

Class A
ASTM E84

VOC Emission

A+
28 Days French Regulation

Pass
14 Days CDPH/EHLB



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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Matching NCS Colour Codes

Developed by Colour Hive

Quiet Neutrals	500	103	442	108	542	444	550	107	920
NCS Code	**S 0300-N**	**S 1002-B**	**S 3005-R80B**	**S 5005-Y20R**	**S 7502-B**	**S 4500-N**	**S 8500-N**	**S 1505-Y30R**	**S 3010-Y30R**
Warm Naturals	105	404	102	516	239	724	107	920	139
NCS Code	**S 3010-Y50R**	**S 0502-Y**	**S 0510-R30B**	**S 2020-Y90R**	**S 4040-Y70R**	**S 5040-R10B**	**S 1505-Y30R**	**S 3010-Y30R**	**S 2050-Y20R**
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	918			
NCS Code	**S 0510-B**	**S 2020-R90B**	**S 4050-R70B**	**S 3040-B**	**S 7020-R70B**	**S 5020-R90B**			
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	864	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® Felt 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.

ARCHISONIC®
Felt

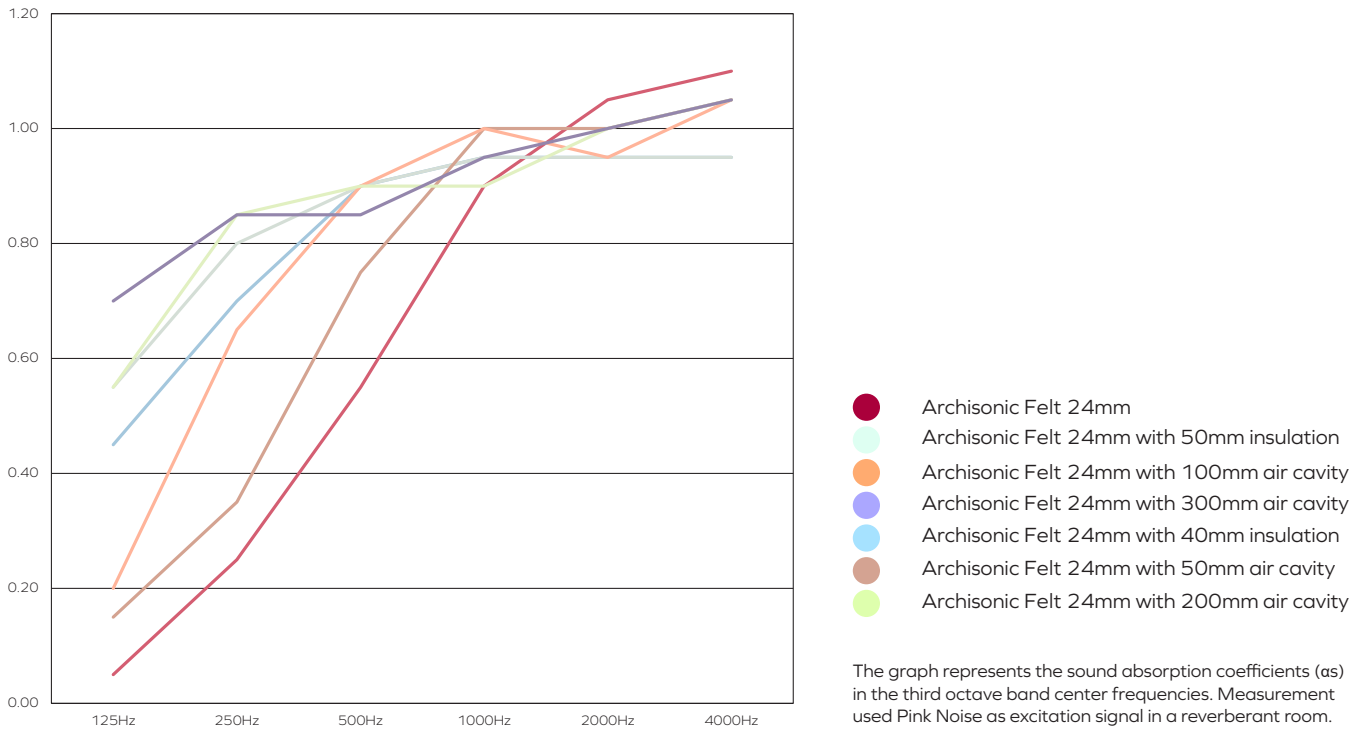
Acoustic Technical Specifications

Archisonic Felt 24mm

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



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®
Felt

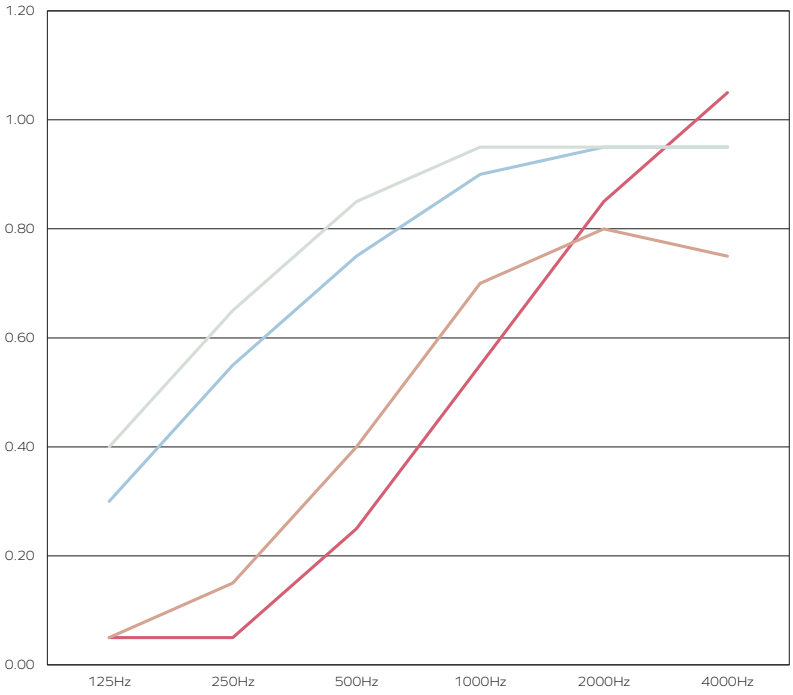
Acoustic Technical Specifications

Archisonic Felt 12mm

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



- Archisonic Felt 12mm
- Archisonic Felt 12mm with 50mm insulation
- Archisonic Felt 12mm with 40mm insulation
- Archisonic Felt 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®
Felt

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%**	**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

UL CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION ULCOM/EPD

U.S. GREEN BUILDING COUNCIL MEMBER

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN LEED

eco 1 ecobau Cert.

CERTIFIED RECYCLED CONTENT TM SCS GLOBAL SERVICES

MINIMUM 60% RECYCLED CONTENT POST-CONSUMER

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eit Climate-KIC

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#We MakeAn Impact

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