

THE
SOUND
OF
COLOUR

ARCHISONIC®



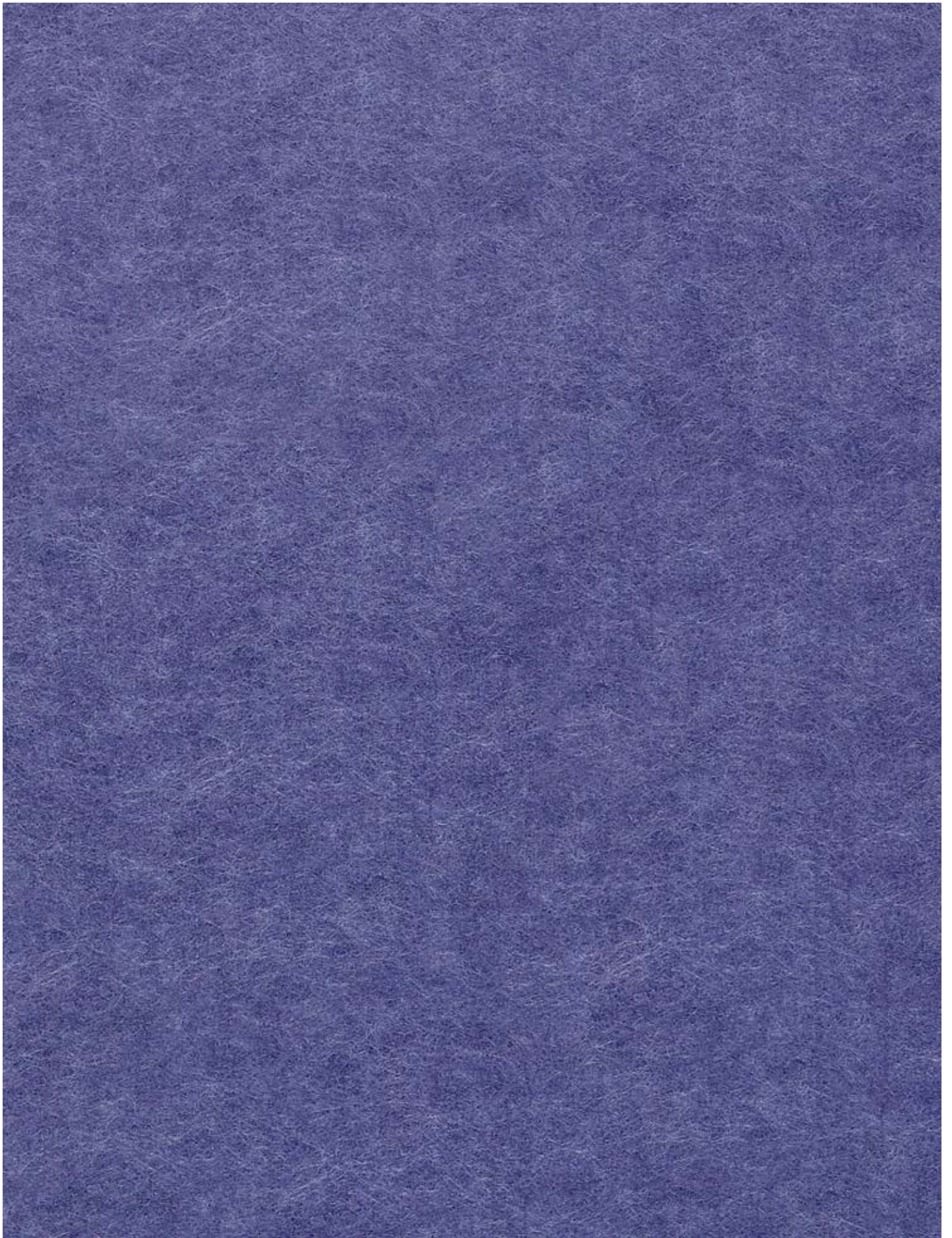


The climate
is changing.
So must the
architectural
design
industry.

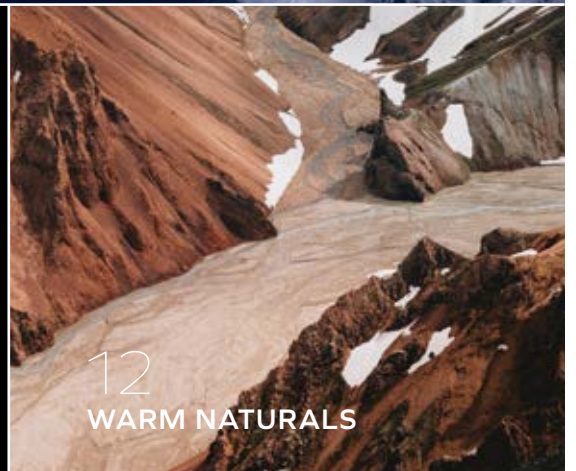
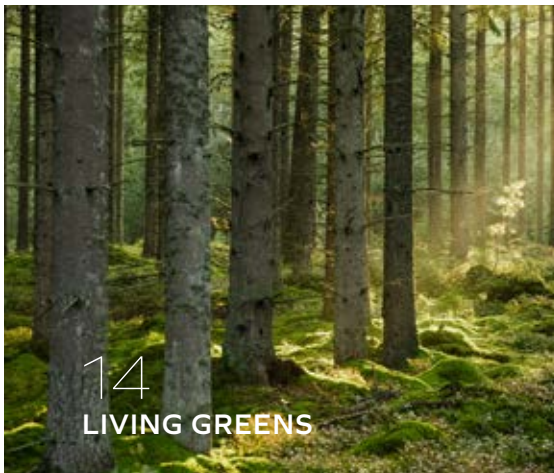
Buildings are the single biggest global emitter of energy-related greenhouse gas emissions by sector.

Half of the energy used in the construction of new buildings is devoted to extracting materials and products.

Waste is a crime. Embrace your inner pragmatist and celebrate materials that do more with less.



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INTRODUCTION



Understanding Acoustic Performance

All building materials have some acoustical properties in that they will all absorb, reflect or transmit the sound striking them. Conventionally speaking, acoustical materials are designed and used for the purpose of absorbing sound that might otherwise be reflected.

The US-based system NRC (Noise Reduction Coefficient) is a method for providing a single number rating of sound absorption. It is defined in ASTM C423 as the arithmetical average of the measured sound absorption coefficients for the four one-third octave band frequencies centred at 250, 500, 1000 & 2000 Hz only.

Alpha w (weighted sound absorption coefficient) is a method for converting a wide frequency-based range of sound absorption coefficient values into a single number but this is done using a curve fitting process. Although more complex

to derive, Alpha w is more representative of how the human ear interprets sound.

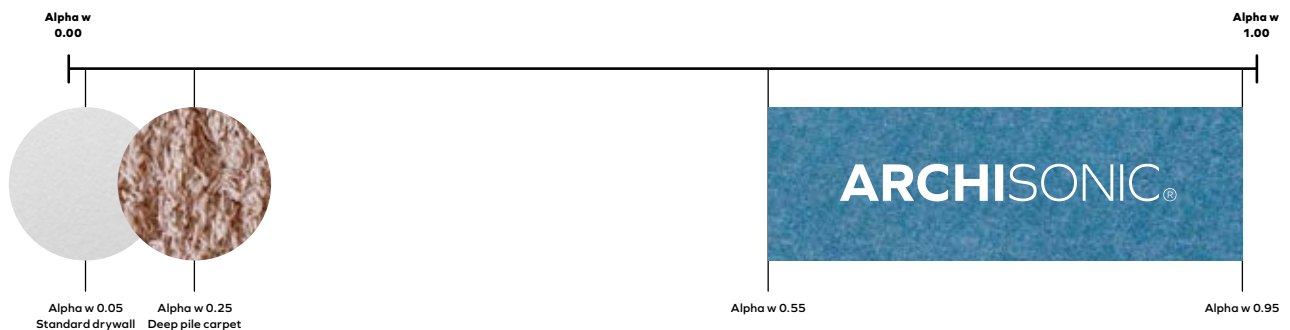
The performance is mainly driven by the open structure where sound can penetrate the absorber, its density, thickness and most importantly the air gap between the absorber and the hard surface (wall or ceiling) – materials installed with an air gap perform generally better.

In order to address different needs, ARCHISONIC® is offered in two thicknesses. The 12mm material is mostly used for full wall applications and the high-performing 24mm for ceiling- and workplace-partition elements.



Benefits of Adding Acoustic Solutions to Your Space

- Reduce echoes, background noise and reverberations
- Improve sound quality for clear understanding
- Increase wellbeing and peacefulness of your room
- Enhance the aesthetics of your space



ENVIRONMENT



Leadership in Action

Dematerialisation, upcycling and life cycle management are the foundation in the product development of ARCHISONIC®'s high-performance acoustic absorbers. Instead of extracting new material, the product relies on the upcycling of single-used plastics with a positive carbon footprint.

The complete ARCHISONIC® product range has been LEED accredited and Cradle to Cradle Certified™. Due to its flexibility in application it offers the design community limitless possibilities to address acoustical challenges.

Ways to Go

Originating from the corporate design industry, our founders understand the importance of creating affordable products with the power to become an integral part of the design intent while enhancing individual wellbeing through performance and colour.

With the power to influence mood, elicit a feeling and tell a story, colour is integral to the development of our acoustic materials.

Trash Hero

In the fight against the use of single-used plastics we support the global Trash Hero movement, providing experiential education on the environmental impact of waste, promoting practical solutions to mitigate, prevent and avoid the same.



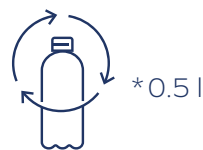
Environmental Performance

ARCHISONIC® uses 88 post-consumer plastic bottles* for every square metre of finished material. The shredded bottles are melted into a viscous molasses and the colour is added to grant no wastage during the process. The molasses is released through a spinneret and cooled. Recycled fibres are brittle, and the felting process is very delicate.

ARCHISONIC® is manufactured in the same traditional way as natural wool felt. In order to achieve the stiffness of the product after felting, the material is baked at 300°C (572°F) to crosslink the

fibres naturally without any glue or any other additives.

At the end of the life cycle we apply circular design principles by turning the material into solid boards to be used as solid building material for various building applications in replacement of wood.



QUIET NEUTRALS

In an ever-connected increasingly urban age, we are all at times in search of a moment of silence. With this in mind, we look to the quieter elements of nature as inspiration for a series of calming and balanced neutrals.





SNOW WHITE

The softest nuance, a tinted white

500

CLOUD

Pale, cool and clear, a true neutral grey

103

SMOKE

A simple mid-tone grey

442

CHARCOAL

The darkest grey, almost black

542

WARM STONE

A gentle pale brown with a touch of grey for added softness

105

MILK

Clean with a creamy undertone for natural warmth

404

GROUND

A muted grey-brown neutral

108

SLATE

A grey like a stone in the riverbed

444

WARM NATURALS

While there is much to be hopeful about, we find ourselves living in a time of uncertainty. To counter these feelings of anxiety, we are drawn to environments that reassure and hold us in a virtual hug.





WARM STONE

A gentle pale brown with a touch of grey for added softness

105

MILK

Clean with a creamy undertone for natural warmth

404

SHELL PINK

Delicately tinted, a modern pastel pink

102

SOFT CORAL

An essential mid-toned warm pink for a new generation

516

TERRACOTTA

A rich and warming natural red-brown

239

GARNET

Deep and dark red with a hint of blue

724

WARM NATURALS

The greatest comfort is often to be found in nature, both in its awe-inspiring grandiosity and its simple beauty. From the rich red of rugged canyons to the soft pink of delicate shells we gathered the perfect hues to create a colour mood to comfort, cocoon and protect.

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

LIVING GREENS

Environmental awareness and a deepening appreciation of biophilia
drives a desire for ever more green spaces.





Our green colour preferences are informed by our geography, and with these four hues we aim to capture the essence of greens around the globe.

SPEARMINT

A calm, cool blue-green

706

SUCCULENT

Soothing, mid-toned and cool

712

MOSS

An optimistic yellowed mid-tone

439

NORDIC PINE

Balanced and grounding

311

GROVE

A shaded and immersive natural green

317

LIVING GREENS

From the cool greens of Nordic pine forests to the yellowed aspect of young wheat, we see Living Greens breathing life into indoor spaces.

ELEMENTAL BLUES

We had to pay tribute to our blue planet with a collection of sea- and sky-inspired hues. As our air and water quality are increasingly under threat, the appeal of nature's blues becomes stronger.





ICE BLUE

A cool tinted pastel blue

304



WINTER SKY

With a touch of grey,
a perfect mid-tone blue

410



MARINE BLUE

Intense and sophisticated with a hint
of warmth

864

PACIFIC OCEAN

An uplifting, saturated green-blue

432



MIDNIGHT

Deep and immersive

810

ELEMENTAL BLUES

With the power to calm or energise, the lure of the open water and endless skies is precious and eternal.

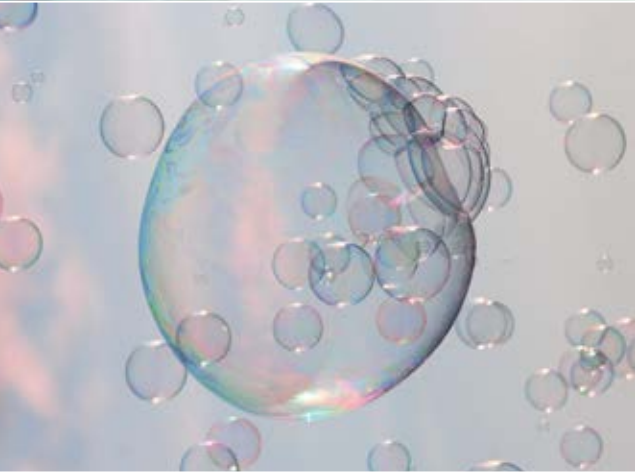
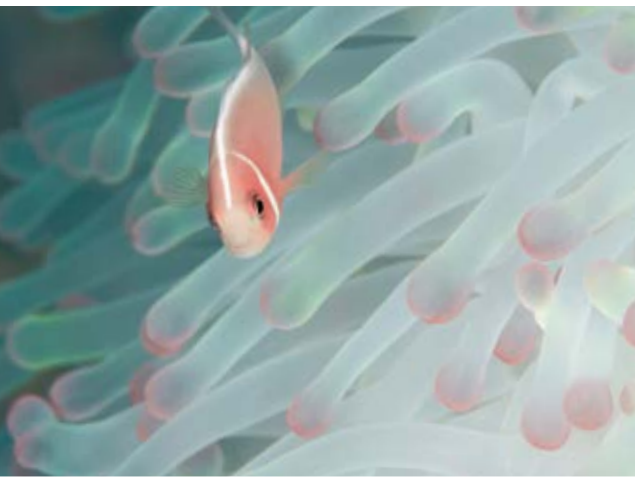
From frozen glaciers to ever changing skies and vast oceans, this collection connects on an elemental level with the three states of water.

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

SOOTHING PASTELS

This directional colour collection is curated from our core palettes of Elemental Blues, Living Greens and Warm Naturals. Combined with shades from the Quiet Neutrals collection and natural materials, these colours take on a timeless quality.





With the evolution of millennial pinks and the emergence of neo-mint, the bandwidth of neutrals has increased, and we see diffused soothing pastels take their place as neutrals of the future.

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

Delicately tinted, a modern pastel pink

102

SOFT CORAL

An essential mid-toned warm pink for a new generation

516

ICE BLUE

A cool tinted pastel blue

304

WINTER SKY

With a touch of grey, a perfect mid-tone blue

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SPEARMINT

A calm cool blue-green

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SUCCULENT

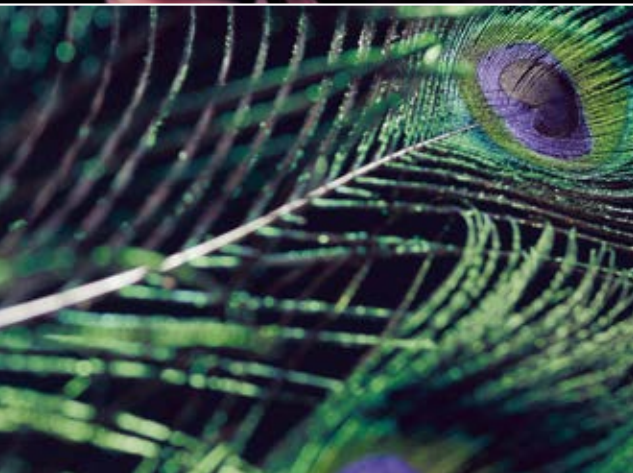
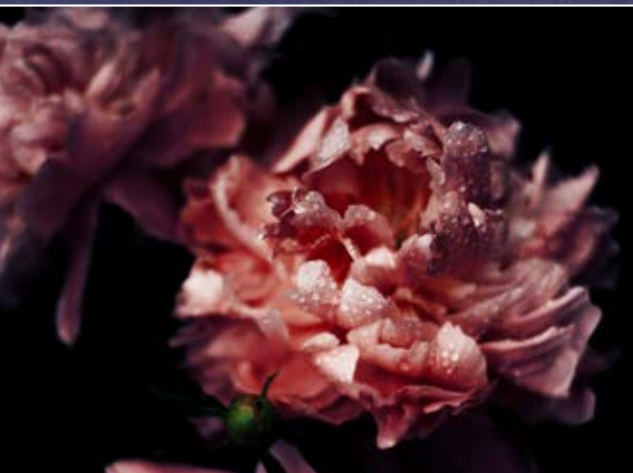
Soothing, mid-toned and cool

712

ELEGANT DARKS

While colour can create a mood, it is the depth or lightness of a hue that truly defines the emotion.





In this collection we bring together the richly saturated and shaded colours of our palette for a mood of indulgence with a touch of theatricality.

Luxury will forever be synonymous with the most pigmented hues, and with an almost velvety aesthetic these are contemporary shades that enhance polished woods and metals and after dark venues.

While each hue has the strength to stand alone, beautiful effects can be achieved with harmonised pairs.

RAVEN

A true black

550

GARNET

Warm and luxurious with a red undertone

724

MARINE BLUE

Intense and sophisticated with a hint of warmth

864

MIDNIGHT

Deep and immersive

810

NORDIC PINE

Balanced and grounding

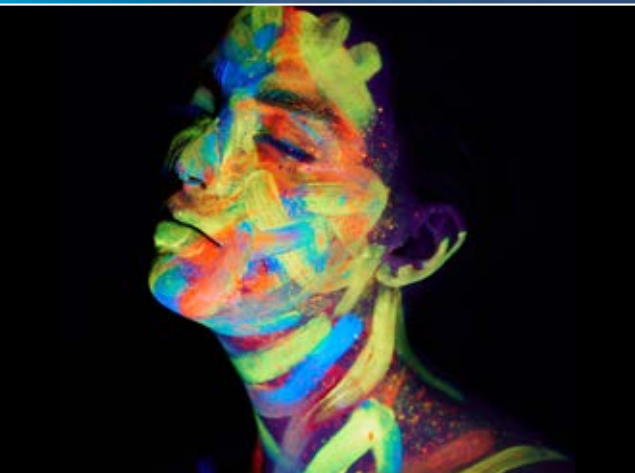
311

ELEGANT DARKS

ENERGETIC BRIGHTS

Here to make an impact, our boldest, clearest hues are collected in a story of optimism and energy. As a counterbalance to enduring trends for tone-on-tone layers of colours, there is also the welcome return of clear and saturated brights.





With each colour family represented from yellow through to both colour accents and the zoning and wayfinding of larger areas.

There are no rules here with endless possibilities for clashing contrasts or surprising highlights. For a sophisticated use of energetic colour, take a single hue and colour match contrasting textiles and solid surfaces.

PACIFIC OCEAN

An uplifting, saturated green-blue

432

MOSS

An optimistic yellowed mid-tone

439

SUNSHINE

A bold warm yellow

846

ELECTRIC ORANGE

A powerful and bright true orange

464

HOT PINK

A hot and vibrant fuchsia pink

140

GRAPE

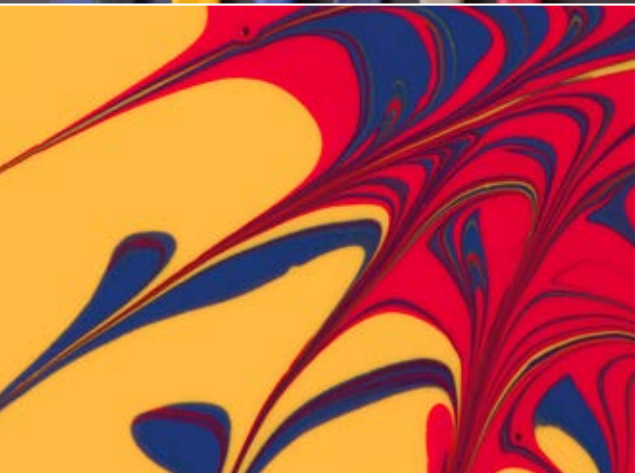
A balanced true purple

540

PRIMARY PLAY

The Bauhaus centenary has reawakened designers' interest in primary colours and the fundamental building blocks of colour are here in this nuanced red, blue and yellow.





Their beauty lies in their simplicity, and in combination their childhood familiarity, the addition of almost black and white brings a cool graphic touch.

While corporate branding and commercial space zoning are natural outcomes for individual primary brights, we see directional applications increasing in importance.

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

The softest nuance, a tinted white

500

CHARCOAL

The darkest grey, almost black

542

SUNSHINE

A bold warm yellow

846

POSTER RED

A bold red with a pink undertone






662

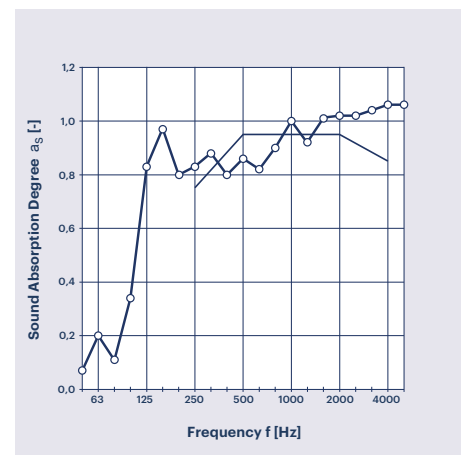
MARINE BLUE

Intense and sophisticated with a hint of warmth

864

DATA SHEET

Dimensions:	1800 × 2400 × 24mm (70" × 94" × 0.94") 1200 × 2800 × 12mm (47" × 10" × 0.47")
Composition:	100% PET (min. 60% post-consumer)
Density:	24mm: 4000g/m ² 12mm: 2400g/m ²
Fire test: DIN EN 13501-1 ASTME84	B-s1, d0 Class A
VOC Emission: CDPH 01350 ISO 16000 EN 16516	Pass (CDPH/EHLB/Standard Method V1.2.)
Colour Fastness: EN ISO 105-B02, A1	Grade 6
Material reutilisation:	24mm: 88 plastic bottles/m ² 12mm: 53 plastic bottles/m ²
Environmental:	Cradle to Cradle Certified™ Product qualifies for LEED v4 specifications on VOC emissions in LEED EQ credit «Low-emitting products»
Supported by:	     <small>Climate-KIC is supported by the EIT, a body of the European Union</small>
Sound Absorption: DIN EN ISO 11654	aw 0.55 (no air gap) aw 0.65 (50mm/2" air gap) aw 0.90 (100mm/4" air gap) aw 0.95 (200mm/8" air gap)



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