

Ecoustic® Timbre Panel

—
Acoustic panels with a timber print for quality sound absorption, Group 1 fire rating + Cradle to Cradle certified



INSTYLE

Finishes



TIMBRE Nordic



TIMBRE Maine



TIMBRE Rural



TIMBRE Heritage



TIMBRE Artisan



TIMBRE Smoked



TIMBRE Urban

Patterns shown are not to scale
Product may vary in colour due to the nature of the media
Please refer to website for current colour range

Ecoustic® Timbre



| | |
|------------------|--|
| COMPOSITION | 100% PET + HP water-based latex digital print |
| THICKNESS | 9mm, 12mm or 24mm |
| PRINT DIMENSIONS | 1200 x 2700mm approx (12mm, 24mm) 1200 x 2400mm approx (9mm) |
| FIRE RATINGS | |
| AS/NZS 1530.3 | 9mm 12mm + 24mm |
| Ignitability | 9 8 |
| Spread of Flame | 0 0 |
| Heat Evolved | 3 1 |
| Smoke Developed | 6 5 |
| AS/ISO 9705 | BCA Group 1 SMOGRA <100 |
| | NZBC Group 1-S |
| ASTM E84 | 9mm: Class C 12mm: Class A |
| LIGHTFASTNESS | >7 |
| ACOUSTIC | 9mm: NRC 0.3* - 0.85^ 12mm: NRC 0.4* - 0.85^ 24mm: NRC 0.65* - 0.95^ * Direct Fix, ^ (200mm airgap) |
| APPLICATION | Screen, wall + ceiling panel |
| EDGING | Edging options are available |
| IMPORTANT | Onsite trimming to square each individual panel + remove unprinted border is essential. Slight variation in thickness may occur. Similar to genuine timber there may be colour variations from batch to batch and across the three thicknesses. Results from performance tests are guidelines only. |

BENEFITS

Group 1 Fire Rating: Unlike most timber products, Ecoustic® Timbre achieves a Group 1 fire rating

Lightweight, Easy to Handle + Install

Designed for the Environment

- Printed with leading HP low-VOC water-based latex ink technology, see more on Sustainability section
- Ozone-free, no hazardous air pollutants, nickel-free, PVC-free + odourless printing ink is US Greenguard Gold-certified + Ecologo certified



Building Rating Systems: Ecoustic® Timbre will contribute the following points for Green Star, LEED + WELL building standards.

| Criteria | Green Star | LEED | WELL |
|--------------------------------|------------|------|------|
| Low VOC | √ | √ | √ |
| Stewardship - Recycling | √ | √ | NA |
| Cradle to Cradle Certification | - | √ | √ |
| Declare Label | NA | √ | √ |
| Manufacturer EMS | √ | NA | NA |
| Toxic Material Reduction | NA | NA | √ |

HOW TO SPECIFY

| | |
|-----------------|-----------------------------------|
| DESIGN | Ecoustic® Timbre |
| PANEL THICKNESS | 9mm, 12mm or 24mm |
| COLOUR | Select from Timbre finishes |
| EDGING | Optional extra - order separately |

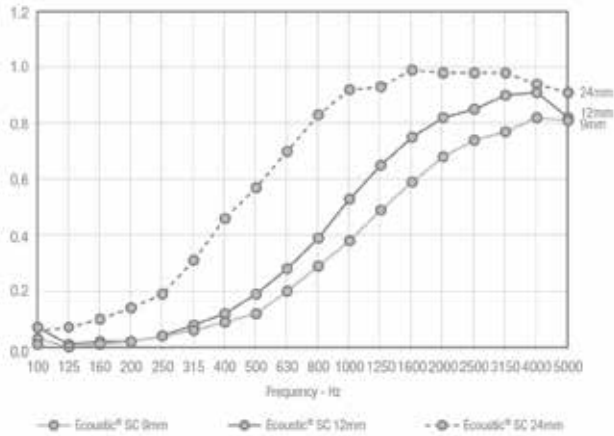
Acoustic Performance

DIRECT FIX

The sound absorption has been tested in accordance with AS/ISO 354

- 9mm NRC 0.3 / α_w 0.2 (Direct Fix)
- 12mm NRC 0.4 / α_w 0.25 (Direct Fix)
- 24mm NRC 0.65 / α_w 0.45 (Direct Fix)

For complete test reports please contact your local distributor



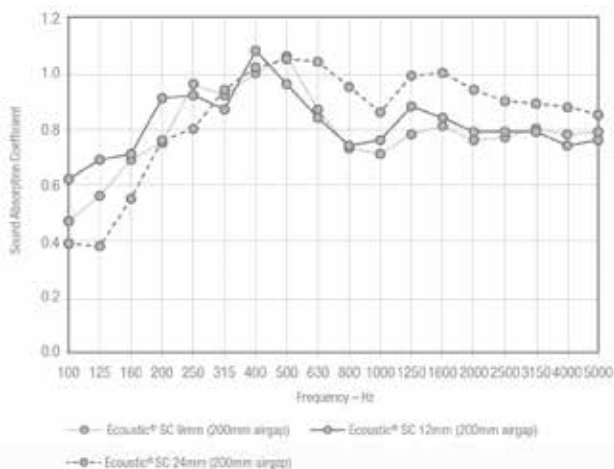
| Frequency | α_S 9mm | α_S 12mm | α_S 24mm |
|-----------|----------------|-----------------|-----------------|
| 100 | 0.03 | 0.07 | 0.06 |
| 125 | 0.00 | 0.01 | 0.07 |
| 160 | 0.01 | 0.02 | 0.10 |
| 200 | 0.02 | 0.02 | 0.14 |
| 250 | 0.04 | 0.04 | 0.19 |
| 315 | 0.06 | 0.08 | 0.31 |
| 400 | 0.09 | 0.12 | 0.46 |
| 500 | 0.12 | 0.19 | 0.57 |
| 630 | 0.20 | 0.28 | 0.70 |
| 800 | 0.29 | 0.39 | 0.83 |
| 1000 | 0.38 | 0.53 | 0.92 |
| 1250 | 0.49 | 0.65 | 0.93 |
| 1600 | 0.59 | 0.75 | 0.99 |
| 2000 | 0.68 | 0.82 | 0.98 |
| 2500 | 0.74 | 0.85 | 0.98 |
| 3150 | 0.77 | 0.90 | 0.98 |
| 4000 | 0.82 | 0.91 | 0.94 |
| 5000 | 0.81 | 0.82 | 0.91 |
| NRC | 0.3 | 0.4 | 0.65 |

200MM AIRGAP

The sound absorption has been tested in accordance with AS/ISO 354

- 9mm NRC 0.85 / α_w 0.78 (200mm air gap)
- 12mm NRC 0.85 / α_w 0.8 (200mm air gap)
- 24mm NRC 0.95 / α_w 0.95 (200mm air gap)

For complete test reports please contact your local distributor



| Frequency | α_S 9mm | α_S 12mm | α_S 24mm |
|-----------|----------------|-----------------|-----------------|
| 100 | 0.47 | 0.62 | 0.39 |
| 125 | 0.56 | 0.69 | 0.38 |
| 160 | 0.69 | 0.71 | 0.55 |
| 200 | 0.75 | 0.91 | 0.76 |
| 250 | 0.96 | 0.92 | 0.80 |
| 315 | 0.92 | 0.87 | 0.94 |
| 400 | 1.00 | 1.08 | 1.02 |
| 500 | 1.06 | 0.96 | 1.05 |
| 630 | 0.87 | 0.84 | 1.04 |
| 800 | 0.73 | 0.74 | 0.95 |
| 1000 | 0.71 | 0.76 | 0.86 |
| 1250 | 0.78 | 0.88 | 0.99 |
| 1600 | 0.81 | 0.84 | 1.00 |
| 2000 | 0.76 | 0.79 | 0.94 |
| 2500 | 0.77 | 0.76 | 0.90 |
| 3150 | 0.80 | 0.79 | 0.89 |
| 4000 | 0.78 | 0.74 | 0.88 |
| 5000 | 0.79 | 0.76 | 0.85 |
| NRC | 0.85 | 0.85 | 0.95 |

HP Inc. Latex Print Sustainability

Latex Print Benefits

| | HP Latex Print |
|----------------------|--|
| Non-Reactive | √ |
| Non-Hazardous Ink | √ |
| Low VOC | √ |
| Odourless | √ |
| Ink Supply Recycling | Non-hazardous ink + free take back program |

- HP Latex Inks contain up to 65% water. Using water-based inks eliminates exposure to high solvent concentrations, and simplifies ventilation, storage, and transportation requirements
- Ozone free: No ground level ozone is generated with HP Latex Inks. Ground level ozone generation is associated with the UV ink curing process when mercury UV lamps are used.
- No HAPs: No Hazardous Air Pollutants (HAPs) present in HP Latex Inks. HAPs are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects
- Odourless prints: Intensity and hedonic testing indicates weak and neutral odour for HP Latex Ink and UV ink is rated as distinct and unpleasant odour.

Ecologo Certification

A prominent, voluntary certification issued by UL and recognised worldwide. Ecologo® Certification to UL 2801 demonstrates that an ink meets a range of multi-attribute, lifecycle-based stringent criteria related to human health and environmental considerations. The standard criteria include testing for heavy metals content and solvents, requirements for low VOC content levels, as well as product recyclability. HP is the only printing company to have Ecologo® Certified inks.

Greenguard Gold Certification

A prominent, voluntary third-party certification issued by UL and recognised worldwide. UL Greenguard Gold Certification to UL 2818 demonstrates that products are certified to UL Greenguard standards for low chemical emissions into indoor air during product usage. UL Greenguard Gold Certification indicates that products, including inks, printed substrates, and the combination of both for indoor applications, contribute to healthier indoor environments by minimizing potential exposure to airborne chemicals.

HP In Action

- HP Named to DJSI World Index, FSTE4Good, CDP Climate A List, and EcoVadis CSR Ratings
- Has one of most diverse board of directors among U.S. technology companies
- Sourced 550,000 pounds of ocean-bound plastic to make new HP ink cartridges
- Committed to achieving 100% renewable electricity usage in global operations
- Pledged to enable better learning outcomes for more than 100M people by 2025
- First to publish supply chain responsibility code of conduct and industry-leading standards