CUBE™

Cube™ is a lightweight but semi-ridged panel made from compressed polyester felt that has endless design flexibility. In standard panel sizes with options of 1/2” or 1” thicknesses, Cube works hard to reduce reverberation and control background chatter.

Cube can be cut, printed on or molded with no need for edging or capping. It can be used in ceilings, as panels between workspaces or in bespoke installations with custom designs. And if that wasn’t enough, just stick it straight to the wall with our Peel ’n’ Stick backing options.

If you have your own ideas, our in-house design team are on hand to turn your vision into reality.

APPLICATIONS

• Decorative and functional acoustic wall covering for education, retail and commercial interiors
• Media for creative solutions
• Acoustic tackboard surface for education and commercial sectors
• Modular room divider for display, privacy and sound absorption

SPECIFICATION

(Wall) treatment shall be Autex Cube™ from thermally bonded high density polyester containing not less than 45% recycled material as manufactured by Autex www.autexacoustics.com

Panel 4’ x 8’ x [__]” (nom.) depth, color [__], sound absorption 1/2”: Class D, NRC 0.45 – with 1” air gap: Class C, NRC 0.70. 1”: Class D, NRC 0.65 – with 1” air gap: Class C, NRC 0.80. Fire rating ASTM E-84-15a: Class A, F5:0 - SD:45, ISO 9705: Classification: Group 1-S, AS ISO 9705 – 2003 Classification: Group 1, EN13501-1:2007+A1:2009: B - s2, d2.

Install as per Autex recommendations.

If Autex Cube™ is to be specified for use other than as a wall covering, please seek guidance from your installation professional or Autex Acoustics.
Table presents the practical sound absorption coefficients as according to ISO 11654. Graph presents third octave sound absorption coefficients (According to ISO 354 Measurement of sound absorption in a reverberation room.) The NRC rating is determined as the arithmetic average of the absorption coefficients measured by one-third octave bands centred on 250 Hz, 500 Hz, 1000 Hz and 2000 Hz, and rounded to the nearest 0.05.

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Cube™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition</td>
<td>100% Polyester Fibre</td>
</tr>
<tr>
<td>Panel Dimensions</td>
<td>4’ x 8’ (+0.2”) x (+0.4”)</td>
</tr>
<tr>
<td>Thickness</td>
<td>1/2” 1”</td>
</tr>
<tr>
<td>Tolerance</td>
<td>(+/-6%) (+/-6%)</td>
</tr>
<tr>
<td>Imperial Weight</td>
<td>7.54 oz/ft² 15.07 oz/ft²</td>
</tr>
</tbody>
</table>

**THERMAL PERFORMANCE**

| Cube 1/2” | R2.30 (@59°F) |
| Cube 1”   | R4.60 (@59°F) |

**INSTALLATION**

Install as per Autex recommendations. Install instructions are included in each pack or available on the website. If Cube™ is to be specified for use other than as a wallcovering, please seek guidance from your Autex account manager.

**LIGHT REFLECTANCE VALUES BY COLOR**

Cube™ is suitable for indoor use only. LRVs were measured in accordance with BS 8493:2008+A1:2010.

<table>
<thead>
<tr>
<th>Color</th>
<th>LRV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pavilion</td>
<td>78</td>
</tr>
<tr>
<td>Opera</td>
<td>49</td>
</tr>
<tr>
<td>Savoye</td>
<td>47</td>
</tr>
<tr>
<td>Senado</td>
<td>45</td>
</tr>
<tr>
<td>Rosada</td>
<td>45</td>
</tr>
<tr>
<td>Acros</td>
<td>42</td>
</tr>
<tr>
<td>Falling Water</td>
<td>36</td>
</tr>
<tr>
<td>Bosco</td>
<td>29</td>
</tr>
<tr>
<td>Flatiron</td>
<td>25</td>
</tr>
<tr>
<td>Zenith</td>
<td>22</td>
</tr>
<tr>
<td>Lotus</td>
<td>16</td>
</tr>
<tr>
<td>Galaxy</td>
<td>16</td>
</tr>
<tr>
<td>Iron Bank</td>
<td>13</td>
</tr>
<tr>
<td>Pinnacle</td>
<td>8</td>
</tr>
<tr>
<td>Empire</td>
<td>6</td>
</tr>
<tr>
<td>Tree House</td>
<td>3</td>
</tr>
<tr>
<td>Petronas</td>
<td>2</td>
</tr>
</tbody>
</table>
FIRE RATINGS
Cube™ has been evaluated using the following test methods:
ISO 9705: 1993
Classification: Group 1-S
Smoke Production Rate: <5.0m2/s
As required by NZBC C/VM2

AS ISO 9705 - 2003
Classification: Group 1
(SMOGRArc): <100m2/s2
Assessed using methodology AS ISO 9705 - 2003
in accordance with AS 5637:1.2015, as required
by BCA Specification C1.10-4
R:4979 dated 16th September, 2012
R:4055:2 dated 8th October 2013
B - s2, d2 (Cube™ 12mm)
WF33691 1 dated 25th February 2014

ASTM E-84-15a
Class A, FS:0 - SD:45 (Cube™ 1/2”)
R87792 dated 25th January, 2016
Class A, FS:0 - SD:65 (Cube™ 1”)
R844791 dated 25th January, 2016

VOC EMISSIONS
Autex polyester has been tested for chemical
emissions in accordance with ASTM D5116
and is considered as a low VOC product.
VOC concentration: 0.009 mg/m3 (7 days)

WATER VAPOR SORPTION
ASTM C1104 / C1104M13a
Test conditions: 49°C, 95%RH
Water vapor absorbed and adsorbed after
4 days: 0.4% by weight

IMPACT RESISTANCE
ISO 7892:1988

HARD BODY IMPACT
There is no surface damage or penetration to Cube™
when subjected to hard body impacts. When
adhered to 10mm plasterboard, the system can resist
a 9-joule impact. This is equivalent to the impact of
a 0.5kg object dropped from a 2m height. A small
indentation might be observed when subjected to an
impact equivalent to the impact of a 0.5kg object
dropped from a 0.5-m height.

SOFT BODY IMPACT
There is no surface damage or penetration to Cube™
when subjected to soft body impacts. When
adhered to 10mm plasterboard, the system can resist
a 70-joule impact. This is equivalent to the impact of a
50-kg object dropped from a 150mm height.

MICROBIAL RESISTANCE
ASTM G21-15
Growth Rating: 0 (No growth)
Cube™ does not promote the growth of moulds
and mildew.

COLOR FASTNESS TO LIGHT
Cube™ is suitable for indoor use only.
Light fastness is dependent on use and
exposure. Cube™ has been evaluated to the
following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

COLOR FASTNESS TO RUBBING
ISO 105-X12:2016
Dry Rating: 4-5 (Highest = 5)
Wet Rating: 4-5 (Highest = 5)

PATTERN REPEAT
Non-woven. No pattern repeat but product has
directional grain. Product may vary from samples
and batch to batch due to fibre blending and lay-
up which is an inherent feature of this product.

FABRIC CARE
Blot spills from fabric quickly. Wipe with a damp
cloth. Avoid rubbing and excessive amounts of
water as this will affect the finish. Use carpet or
upholstery shampoo as directed. Blot with a clean
dry cloth after each application of solution. Custom
printed Cube™ requires the services of a specialist
cleaning company. Refer to the Cube™ Cleaning
and Maintenance Guide for more information

ENVIRONMENTAL
Autex is committed to best practice through our
ISO 9001 and ISO 14001 certified Quality and
Environmental Management Systems.
Autex Cube™ contains a minimum of 45%
previously recycled polyester fibre (from PET
bottle-flake). Off-cuts and manufacturing waste are
re-used or recycled wherever possible.
Autex Cube™ is manufactured from 100%
polyester fibres and does not contain formaldehyde
binders. Autex polyester fibres support safer
indoor air quality and will not become a potential
airborne pollutant.

SERVICE
For further information about Cube™ or any other
Autex product, please contact your Autex account
manager or visit our website.
MOQ’s apply to some colors. To find out more, or to order a sample, please contact your Account Manager or visit our website.