

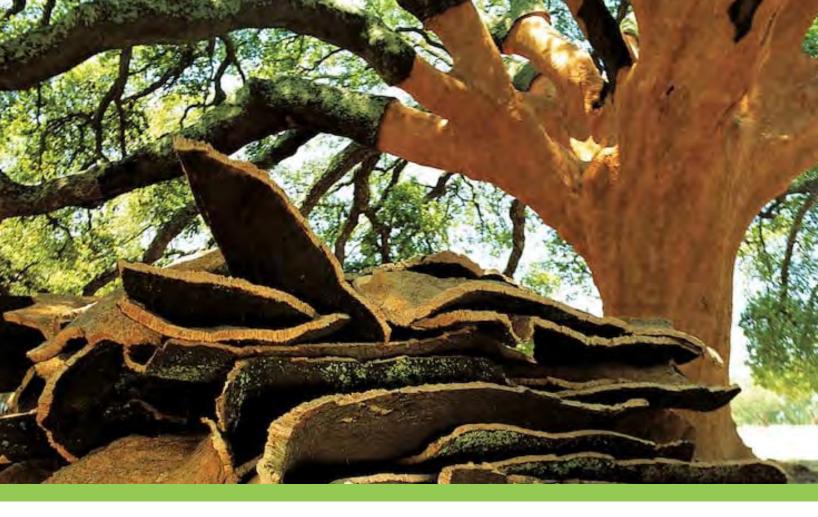
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ecoCORK Acoustics Australia
www.ecoCORK.com.au
1-3/30 Lawrence Drive, NERANG QLD 4211
Phone: (07) 5578 4665
Email: info@ecocork.com.au



CORK

AN EXCEPTIONAL RAW MATERIAL

Cork is commonly described as being the bark of the cork oak (Quercus Suber L.), which means that it is 100% natural plant tissue that covers its trunk and branches.

It consists of a honeycomb-like structure of microscopic cells filled with an air-like gas and coated mainly with suberin and lignin. One cubic centimetre of cork contains about 40 million cells.

Cork is also known as the "nature's foam" due to its alveolar structure. It has a closed cell structure making it lightweight, airtight and watertight, resistant to acids, fuels and oils, and impervious to rotting.

It is sustainably harvested by specialised professionals without damaging the trunk, meaning that the tree itself lives to grow another bark layer that, in time, will be harvested once again. Over the course of its lifetime, which on average lasts 200 years, it may be stripped around 17 times meaning that cork is not only a natural material, but also a renewable and recyclable one.



Excellent Acoustic Insulation



Excellent Thermal Insulation



Good resilience, excellent compressibility and recovery



Extremely light and buoyant



100% natural, reusable and recyclable



CORK THE MOST VERSATILE NATURAL PRODUCT

At ecoCORK Acoustics Australia, we reinvent the world every day: we reuse and re-purpose natural and recyclable materials.

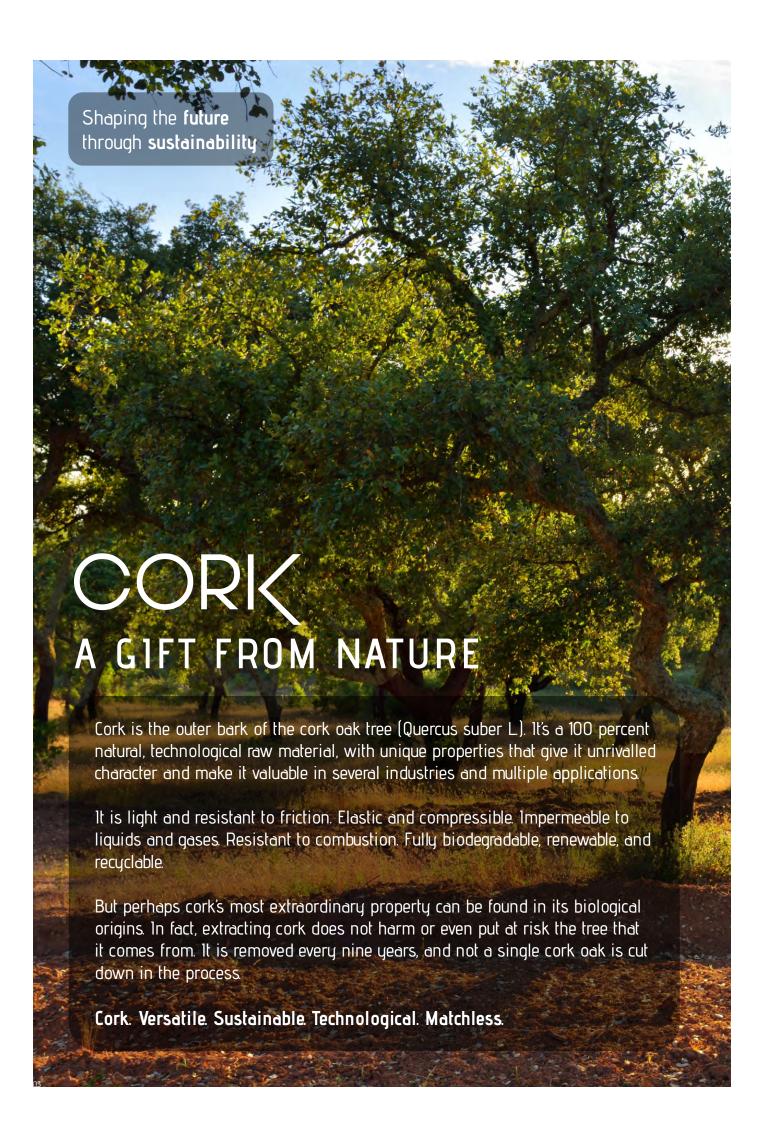
Cork is the main raw material for the development of a portfolio of high-performance materials for multiple industries such as aerospace, panels and composites, automotive, seals and gaskets, the power industry, construction, sports surfaces, flooring, consumer goods, furnishing, and footwear.

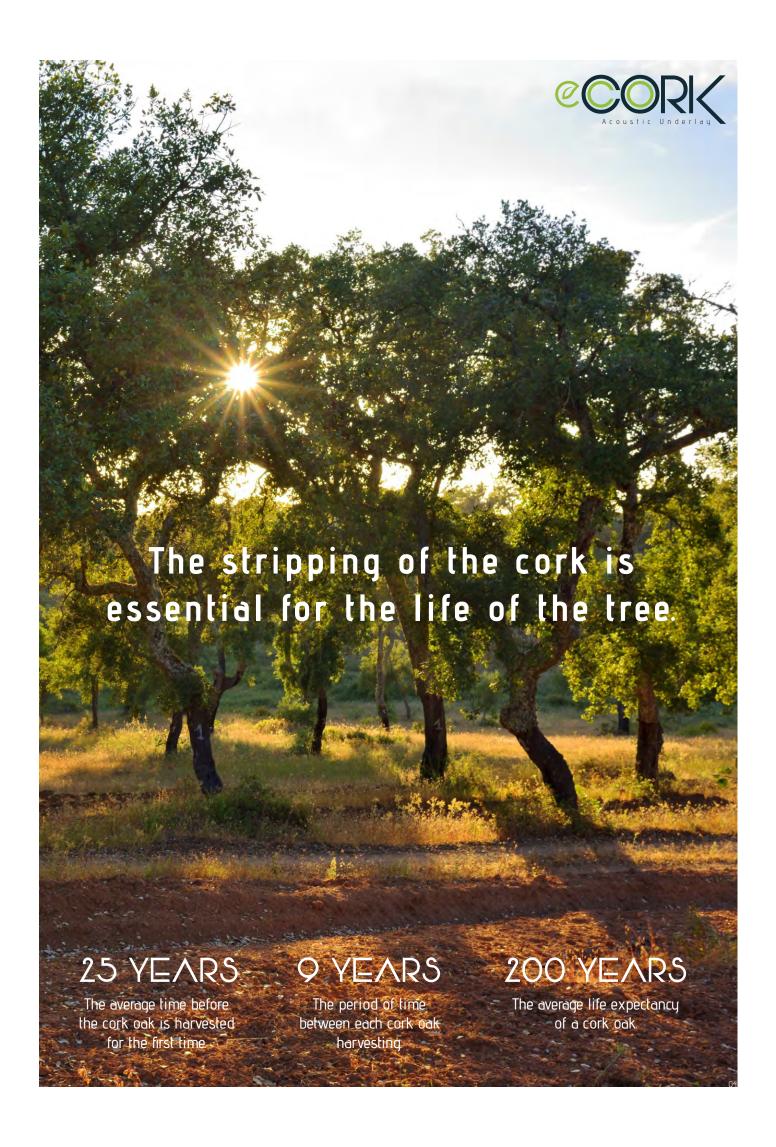
We value cork, a 100 percent natural, sustainable, and highly technological material, shaping it to meet the most demanding requirements. Cork also provides many other unrivalled benefits over all other standard acoustic options.

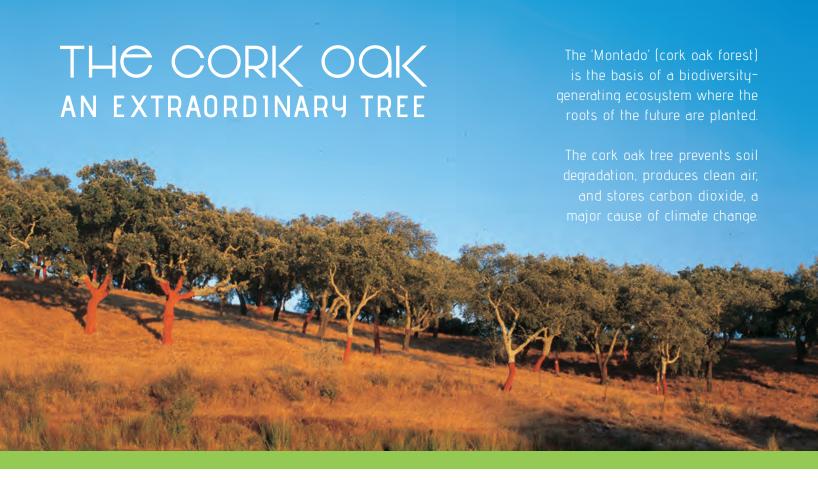
ecoCORK combines the incredible attributes of cork to provide the world's only true environmentally friendly acoustic solution.







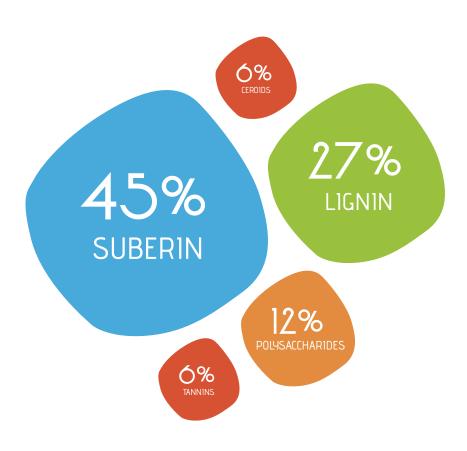




Cork consists of a hive-like structure of microscopic cells filled with a gas similar to air and mostly coated with suberin and lignin. In its chemical composition, other compounds can also be identified, such as polysaccharides, ceroids, and tannins.

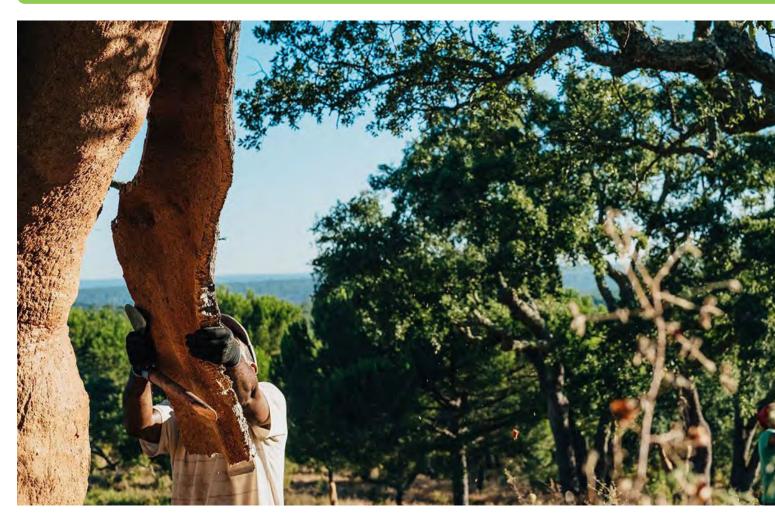
The high percentage of gas of each cell is responsible for cork's extraordinary lightness. The association of these cells, as if they were a kind of small aggregate cushions, is responsible for their compressibility and elasticity.

In a single cubic centimetre of cork, there are about 40 million cells.



BENEFITS OF THE CORK OAK





PREVENTS SOIL DEGRADATION

2 IMPROVES SOIL PRODUCTIVITY

REGULATES THE HYDROLOGICAL CYCLE

FIGHTS DESERTIFICATION FIGHTS CLIMATE CHANGE ABSORBS
AND STORES
CARBON
DIOXIDE OVER
VERY LONG
PERIODS OF
TIME

GENERATES HIGH LEVELS OF BIODIVERSITY





IMPERMIABILITY TO LIQUIDS AND GASES

Thanks to suberin and ceroids in the cell's walls, cork is impermeable to liquids and gases. Its resistance to humidity allows it to age without deteriorating.





ELASTICITY & COMPRESSIBILITY

Cork is the only solid that, when compressed on one side, does not increase in volume on the other. Cork's elastic memory allows it to adapt to temperature and pressure changes.





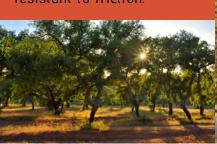
HYPOALLERGENIC

Because cork does not absorb dust, it helps protect against allergies.



RESISTANCE TO FRICTION

Cork is extremely resistant to abrasion and is highly resistant to friction.







RESISTANCE TO FIRE & HIGH TEMPERATURES

Cork is a natural fire retardant: it does not flame or release toxic gases during combustion.

OTHER FEATURES























COMPATIBLE
WITH ALMOST
ALL ADHESIVES

















STRESS CRACK PROTECTION





OVERVIEW



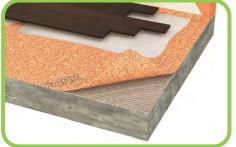


UNDERLAY

ECOCORK HAS SOLUTIONS FOR DIFFERENT TYPES OF FINAL FLOORING



TIMBER/VINYL Glue down or floated



LAMINATE Floated



TILES Flexible tile adhesion

(a) ECOCORK CAN ALSO BE USED OVER UNDERFLOOR HEATING.

RANGE OVERVIEW

Product Code	ecoCORK-MF3	ecoCORK-MF4	ecoCORK-MF5	ecoCORK-MF6
Thickness (mm)	3	4	5	6*
Width (m) x Length (m)	0.5 x 1	0.5 x 1	0.5 x 1	0.5 x 1
Carton size - Sheets/m2	100sh/50m2	76sh/38m2	60sh/30m2	52sh/26m2
Performance (Lnt,w)**	45	44	44	43

^{*}Special order **Based on average performance, refer to complete testing for different scenarios

Additional thicknesses 7mm - 12mm available on project order.







PRODUCT DETAILS



PRODUCT DESCRIPTION

ecoCORK is produced from a blend of different sized cork grains. These specialised cork grains are then compressed to a certain density to maximize the products acoustic performance ecoCORK is a non-toxic, natural and environmentally friendly product. It does not absorb water or support the growth of mould in moist situations, provides thermal insulation and stress crack protection for floor coverings, and is also fire retardant.

ecoCORK is also lightweight making transport and handling of the product on site easier for the installer.

ecoCORK can either be floated over the sub-floor or direct stuck using a number of different methods and brands to suit many different floor coverings.

> Based on the Association of Australasian Acoustical Consultants (AAAC) 'Guideline for Apartment and Townhouse Acoustic Rating', ecoCORK rates as 5 star product!



THERMAL PROPERTIES (150 8301) —

Thermal Conductivity: 0,038 W/mo K Thermal Resistance: 0,132 m2o K/W

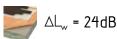
PHYSICAL AND MECHANICAL PROPERTIES (150 7322)

Specific Weight: 150-200 kg/m3 Tensile Strength: > 200 KPa Compression (0.7MPa): 30% Recovery after 0,7MPa: > 70% Durability: Lifetime of the building

ACOUSTIC BENEFIT (1SO 10140-1, 1SO 10140-3 & 1SO 10140-4)

NON GLUED LAMINATE FLOORS ΔL_w = 20dB





GLUED DOWN TIMBER FLOORS $\triangle L_w = 26 dB$



TESTING RESULTS



Test	Туре	ecoCORK	Slab	Improvement	L'nT,W
Test 1	14mm Floating Timber	MF4	200mm Suspended Ceiling	20	44
Test 2	15mm Engineered Adhered	MF3	200mm Concrete Ceiling	12	57
Test 3	15mm Floating Timber	MF5	200mm Concrete Ceiling	16	53
Test 4	14mm Floating Timber	MF6	150mm Suspended Ceiling	22	43
Test 5	13.5mm Timber Adhered	MF5	190mm Concrete Ceiling	17	48
Test 6	10mm Timber Adhered	MF3	140mm Concrete Ceiling	26	52

^{*}See individual test results below for more information

Disclaimer

This Acoustic test is provided 'as is' without any representation or guarantees, express or implied. ecoCORK Acoustics Australia "eCORK" makes no representations or guarantees in relation to this Acoustic Test or the information and materials provided herein. The information and data collected herein are based on industry accepted testing methods. It is intended as descriptive of the performance characteristics and capabilities of eCORK acoustic underlays and does not certify for a specific project. Although all efforts are taken to include accurate up to date information, without prejudice to the generality of this paragraph, eCORK does not guarantee or warrant that the information in this Acoustic Test is complete, true, accurate or non-misleading. This Acoustic Test was provided solely for information purposes. You should not act upon information without consulting eCORK or an appropriate Acoustical Consultant. Whilst these tests provide expected results, the performance of the product can vary depending on many variables such as but not limited to building design, floor materials and density, room layout and installation method.



Engineered Timber floated over ecoCORK-MF4

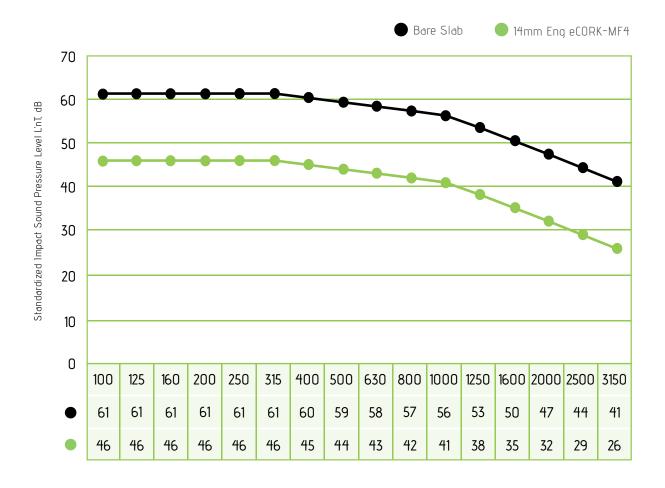
150 140-7 1998

Location: Elizabeth Ave, Broadbeach, QLD, Australia

Test Date: 30/7/2013

Constructions: 200mm Concrete slab. Suspended ceiling below.

14mm Engineered Timber, floated over ecoCORK-MF4 4mm Acoustic Underlay.



Results

Bare Slab L'nT,w	eCORK-MF4 L'nT,w	Improvement	BCA Compliance	AAAC Rating
64	44	20 dB	YES	5 Star



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Engineered Timber adhered over ecoCORK-MF3

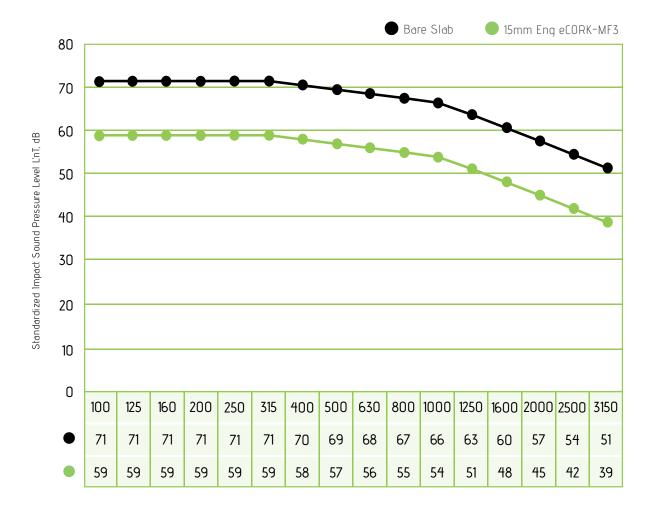
150 16283-2 2015

Location: Dogget Street, Brisbane, QLD, Australia

Test Date: 1/3/2018

Constructions: 200mm Concrete slab. Concrete ceiling below. No suspended ceiling.

15mm Engineered Timber, adhered over ecoCORK-MF3 3mm Acoustic Underlay.



Results

Bare Slab L'nT,w	eCORK-MF3 L'nT,w	Improvement	BCA Compliance	AAAC Rating
69	57	12 dB	YES	3 Star



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Engineered Timber floated over ecoCORK-MF5

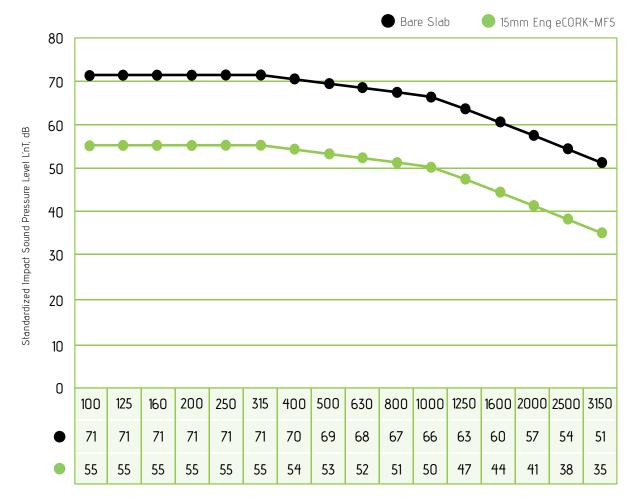
150 16283-2 2015

Location: Dogget Street, Brisbane, QLD, Australia

Test Date: 1/3/2018

Constructions: 200mm Concrete slab. Concrete ceiling below. No suspended ceiling.

15mm Engineered Timber, floated over ecoCORK-MF5 5mm Acoustic Underlay.



Results

Bare Slab L'nT,w	eCORK-MF5 L'nT,w	Improvement	BCA Compliance	AAAC Rating
69	53	16 dB	YES	4 Star



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Engineered Timber floated over ecoCORK-MF6

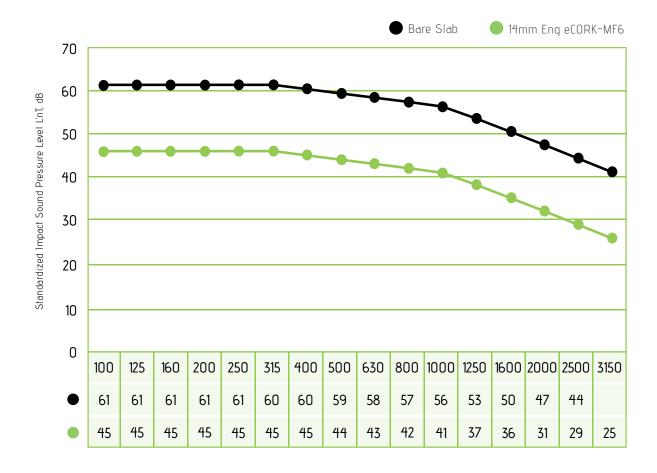
150 140-7:1998 & 150 717-2:1996

Location: Ephraim Island, Paradise Point, QLD, Australia

Test Date: 7/3/2013

Constructions: 150mm Concrete slab. Suspended ceiling.

14mm Engineered Timber, floated over ecoCORK-MF6 6mm Acoustic Underlay.



Results

Bare Slab L'nT,w	eCORK-MF6 L'nT,w	Improvement	BCA Compliance	AAAC Rating
65	43	22 dB	YES	5 Star



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Engineered Timber adhered over ecoCORK-MF5

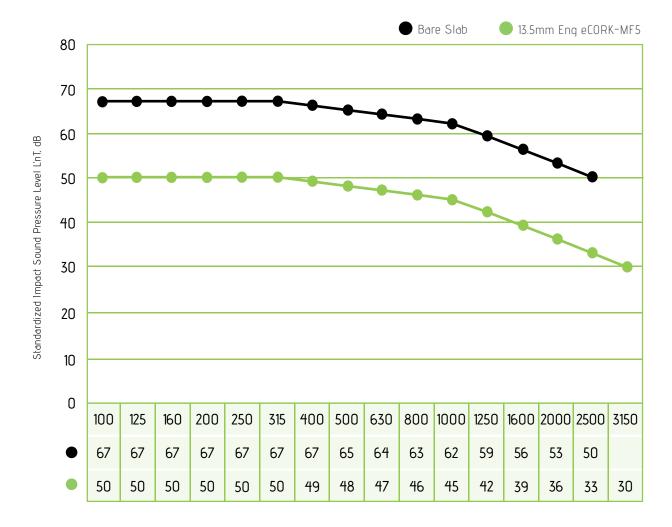
1S0 140-7: 1998 & 717-2:1996

Location: Queen Street, Brisbane, QLD, Australia

Test Date: 2/6/2016

Constructions: 190mm Concrete slab. Concrete ceiling below. No suspended ceiling.

13.5mm Engineered Timber, adhered over ecoCORK-MF5 5mm Acoustic Underlay.



Results

Bare Slab L'nT,w	eCORK-MF5 L'nT,w	Improvement	BCA Compliance	AAAC Rating
65	48	17 dB	YES	4 Star



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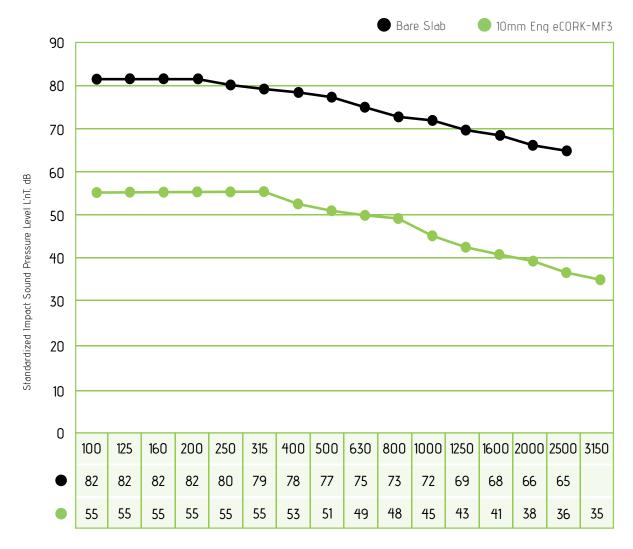
Engineered Timber adhered over ecoCORK-MF3

1SO 140-1: 2010 & 717-2:2013

Location: Portugal Test Date: 2013

Constructions: 140mm Concrete slab. Concrete ceiling below. No suspended ceiling.

10mm Engineered Timber, floated over ecoCORK-MF3 3mm Acoustic Underlay.



Results

Bare Slab L'nT,	v eCORK-MF3 L'nT,w	Improvement	BCA Compliance	AAAC Rating
78	52	26 dB	YES	5 Star



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CHEVRON REINAISSANCE



Chevron Renaissance is a \$400 million development on the Gold Coast in Queensland, Australia.

The development comprises of 713 individually owned residential lots located above the Chevron Renaissance Shopping Centre.





GRAND MARINER







Grand Mariner Residential Resort is a unique residential estate situated on the beautiful Macintosh Island, also known as Paradise Waters, Surfers Paradise.

KIRRA WAVE





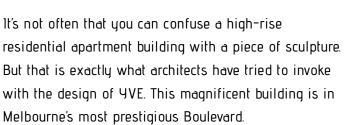


Architecturally designed, Kirra Wave boasts exceptional features throughout and offers privacy and luxury during your stay. Care and taste has gone into combining style with substance with beautiful Blackbutt floors throughout.

YVE APARTMENTS -









Q1 TOWER -



Q1 Tower is a 322.5-metre skyscraper in Surfers Paradise, Queensland, Australia. The residential tower on the Gold Coast was the world's tallest residential building from 2005 to 2011.





LA SABBIA -



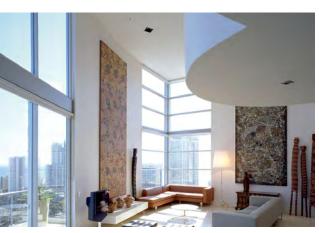




La Sabbia was designed with the desire of creating a perfect modern and functional living space with luxury quality comforts and aesthetics. Meticulous attention to detail is evident everywhere you look.

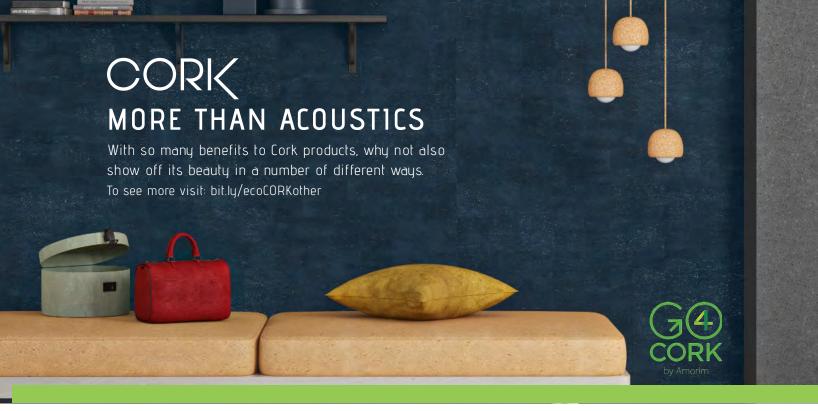
OCEAN SANDS







The luxurious and relaxing Main Beach accommodation is perfectly located at Tedder Avenue. A boulevard of alfresco cafes, upmarket restaurants, and fashionable shopping, Tedder is where locals go for authentic Gold Coast entertainment and relaxation.





















Authorised Distributor





Auslay Industries Pty Ltd 21 Redcliffe Gardens Drive Clontarf, Queensland, 4019 email: info@auslayindustries.com.au Ph: 0419687745





Acoustic RK.