

BlueScope Lysaght
DECRA® Roofing Systems



The Beauty of
Steel and Stone

Steel & Stone Created Nature's Image with Enduring Roof System

TESTED AND PROVEN AROUND THE WORLD

Decra® Roofing Tiles which were manufactured with an advance technology deliver high-quality metal tiles roof panel with natural look. Each of Decra Roofing Tiles supplied by BlueScope Lysaght (Singapore) are pressure-formed from ZINCALUME® steel creating three-dimensional

metal tiles with strong interlocking and overlapping roofing system.

The ZINCALUME® steel material is an assurance to the quality of the roofing tiles. Its superior long term corrosion resistance provides longer

service life to all Decra Roofing Tiles profiles. Natural Stone-chip finishes that was embedded onto the acrylic base-coat applied after pressing the ZINCALUME® steel together with other coatings exude beauty, character, and simplicity of the metal tiles lasting for decades.

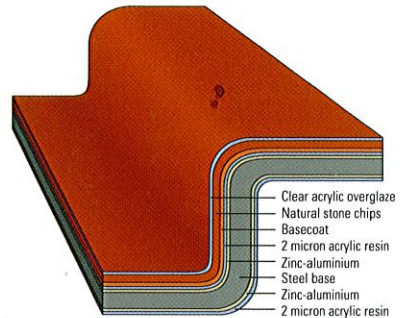
Fully Tested

Decra Roofing Tiles supplied by BlueScope Lysaght (Singapore) has also gone through a

series of test giving you an assurance of its quality.

WEATHERING RESISTANCE	Accelerated Weathering Test to American Society for Testing and Materials standard (ASTM) G26.
WEATHERING SECURITY	High Speed Dynamic Rain Penetration and High Wind Loading Tests - by Construction Research Laboratory Inc, Florida, USA. Low Speed Dynamic Rain Penetration Test - by the Experimental Building Station, Australia.
CORROSION RESISTANCE	Salt/fog Test to ASTM B117. 100% Relative Humidity Test to ASTM D2247
CONCENTRATED LOADING	Concentrated Force on Roofing Tiles to Australian Standard 1582. Rule 5.2, 1973 by Cyclone Testing Station, Australia.
FIRE RESISTANCE	Class A&B under UL790 (ASTM E-108) when applied in accordance with instructions.

DECRA ROOFING TILE BASE MATERIAL



Profile of DECRA® Roofing Tiles

DECRA® Roman Tiles

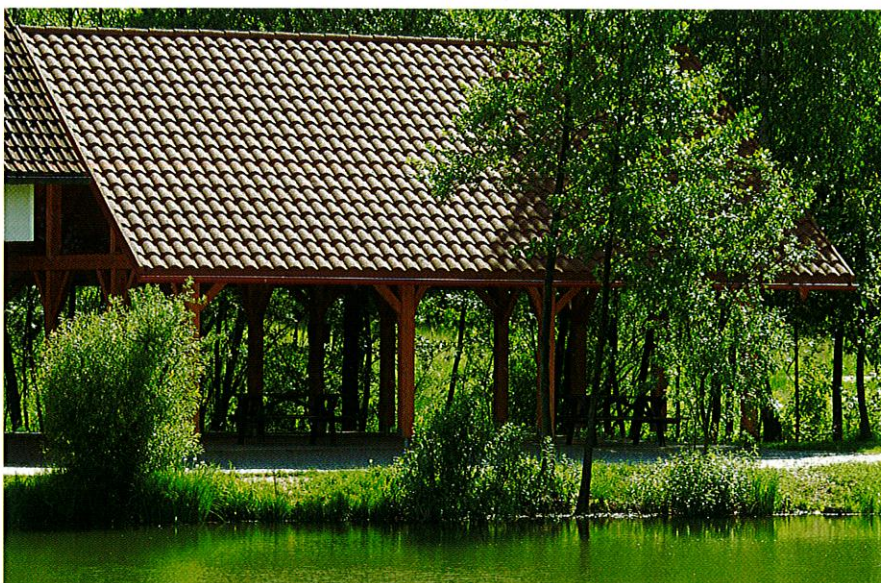
Mediterranean Style Fused with the Strength of Steel

Decra® Roman Tile which is pressure formed from 0.48mm thick Zincalume® steel to a five-module panel has been developed with advance technology with an eye for innovation. Recreating the look of Mediterranean clay tiles, Decra®

Roman Tiles made your building outstanding.

Decra® Roman Tile roof panels also provides strong interlocking and overlapping system for weather-tight assurance. And, its horizontal

fixing method eliminates the wind shear that in certain case causing the roof tiles lifted up in high winds (it'll happen when the vertical fixing method used to fix the tiles onto the battens).



Roman Tile

SPECIFICATIONS:	
Overall Length	1160mm
Length of Cover	1100mm
Width of Cover	370mm
Upstand	20mm
Roof Cover / Tile	0.41m ²
Coverage	2.5 tiles/m ²
Weight / Unit	3.0kg



Linkway at Toa Payoh, Singapore

DECRA® Shingles

The Choice of Aesthetics and Performance

Decra® Shingles metal tile roof supplied by Bluescope Lysaght (Singapore) Pte Ltd is a designer preferred choice for its beautiful appearance and performance.

Decra Shingles manufactured from Zinalume® steel offers superior performance - designed to

withstand some of the most severe weather conditions, light-weight, strong, and durable. It will not curl, split, and swell when exposed to the weather unlike the timber shingles or asphalt tiles. Decra® Shingles also provides superior resistance against fires - both external and internal.

A unique two-tone shaded stone-chip was added onto its surface creating a pronounced 3-dimensional effect for impressive natural look. These stone-chips have also dampened the rain impact noise made the Decra® Shingles metal tile roof quieter than most of metal tiles available in the market.



Apartment at 129 Fidelio Street, Singapore

SPECIFICATIONS:	
Overall Length	1320mm
Length of Cover	1250mm
Width of Cover	368mm
Upstand	16mm
Roof Cover / Tile	0.45m ²
Coverage	2.2 tiles/m ²
Weight / Unit	3.0kg



The Ford at Holland Road, Singapore

DECRA® Shake

Style and Craftsmanship

Decra® Shake manufactured with advance metal-pressing technology successfully recreates the deep grain profile of cedar wood shakes. Unlike the traditional timber shake, Decra® Shake won't create a fire hazard in dry condition, warp or

split when exposed to the extreme weather conditions.

Through years of research and applications, Decra® Shake with Zinalume® steel base

became popular amongst designers and building owners who are looking for natural look of timber shake without a hassle to maintain it, durable, light-weight, easy to handle and fast to install.



TECHNICAL SPECIFICATIONS	
Overall Length	1310mm
Length of Cover	1250mm
Width of Cover	370mm
Upstand	25mm
Coverage	2 panels/m ²
Weight / Panel	3.0kg
Weight / m ²	6.5kg



Installation Method

DECRA® Roman Tiles

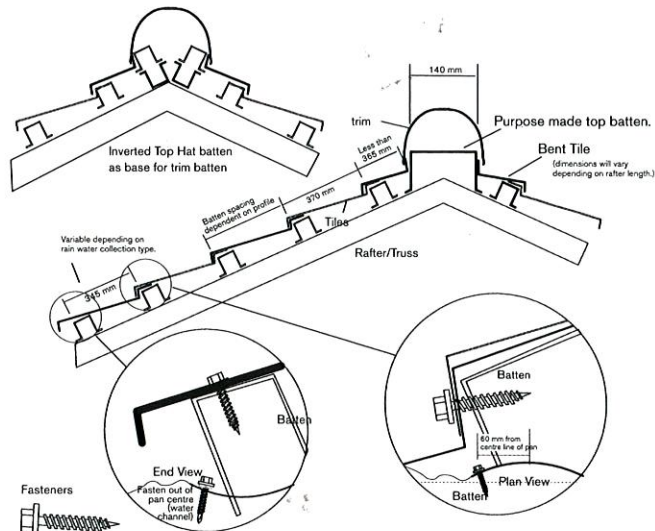
Decra® Roman Tiles shall be installed with batten either timber batten or steel batten.

shall be 370mm measured from the front of the batten. This is the surface where the tiles will be fixed to the batten.

When fiberglass insulations are required, it has to be laid before the battens installation.

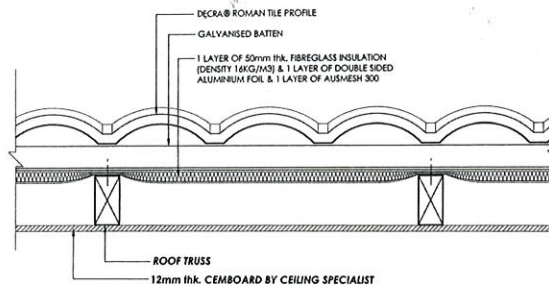
The batten spacing for Decra® Roman Tiles

Note: all dimensions given are nominal



12 gauge, 25 mm pierce point screw recommended by AHI Roofing Limited.

It is the responsibility of architects, builders and roof installers to ensure that all local standards, building codes, by-laws and requirements are satisfied.



DECRA® Shingles & DECRA® Shake

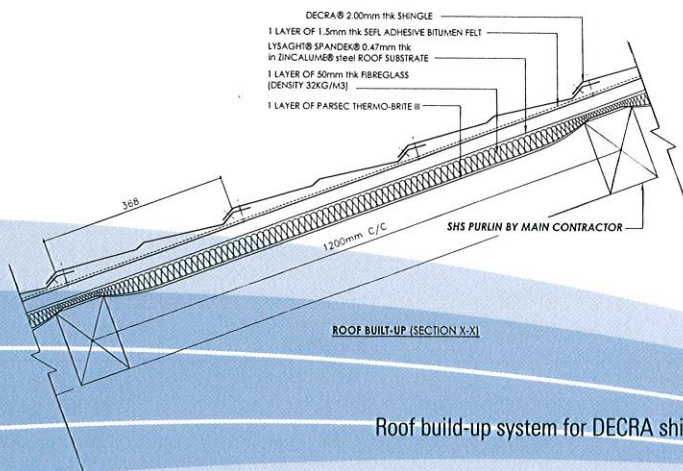
Lysaght® Spandek® shall be used as roof substrate for installation of Decra® Shingles & Decra® Shake

Recommended roof build-up system (all items above the purlin):

1. Decra® Shingles or Decra® Shake top-

2. 1.50mm thick self-adhesive bitumen felt
3. Lysaght® Spandek® roof substrate
4. One layer of 50mm thick Rockwool insulation with density of 60kg/m³

5. One layer or double-sided aluminium foil
6. One layer of AUSMESH 300 safety mesh



Roof build-up system for DECRA shingles & DECRA shake roof tiles

Benefits of DECRA® Roofing Tiles

Light-weight

With approximately weight of 6.5 to 7.5kg/m² (1/7 the weight of clay or concrete tiles), Decra Roofing Tiles supplied by BlueScope Lysaght (Singapore) could be the lightest in roofing tiles range.

- As a result you can have longer truss to truss spacing compared to clay tiles.

• Being light-weight, Decra Roofing Tiles is an ideal material for re-roofing projects:

- **It can be installed over the existing corrugated roof** - get a new look faster with minimum budget.
- **Build a new pitch roof over the flat R.C roof.**

When your R.C roof failed - unrepairable, you may think to build a new roof over the existing one. Decra Roofing Tiles together with the light-weight steel structure would be something you may want to consider.

Flat to Pitched Roof Conversions

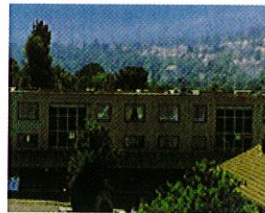


Before



After

Flat to Pitched Roof Conversions



Before



After

Re-roofing Solution



Before

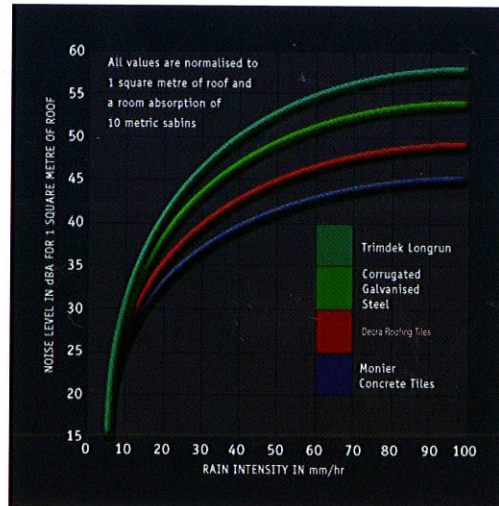


After

Quiet

The natural stone-chips finish applied on each of Decra Roofing Tiles absorbs the

rain noise during a heavy downpour made the roof quiet.



Fire Resistance

Decra® Roofing Tiles has a proof of fire-resistant qualities as demonstrated by test result and classification provided by authorised agencies:

- Class A, B, or C Fire Rating, Underwriters Laboratories Inc. in accordance with

Test Standard UL 790 "Test for Fire Resistance of Roof Covering Materials" (ASTM E-108)

- External fire exposure test, DD ENV 1187 - test method 1 (DIN 4102.7)
- Non-flammable Material Certificate

NM-8744, issued under the Building Standard Laws of Japan

- Class A, B, or C Fire Rating, ICBO Evaluation Service Inc., when installed in accordance with the Uniform Building Code.

Superior Wind Resistance

Decra® Roofing Tiles probably are the only tile product come with a unique horizontal fixing system. Because each panel is fixed

horizontally to the roof substrate or battens, wind shear is virtually eliminated. This is unlike most other roofing products

which rely on vertical fixing methods that are prone to uplifting in high winds



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BLUESCOPE LYSAGHT
... Beyond Roofing



DESIGN
FLEXIBILITY



DURABILITY /
SECURITY



HI-TECH
PRODUCTION



RECYCLING



COLOUR
CHOICES



THERMAL
EFFICIENCY



WARRANTY