

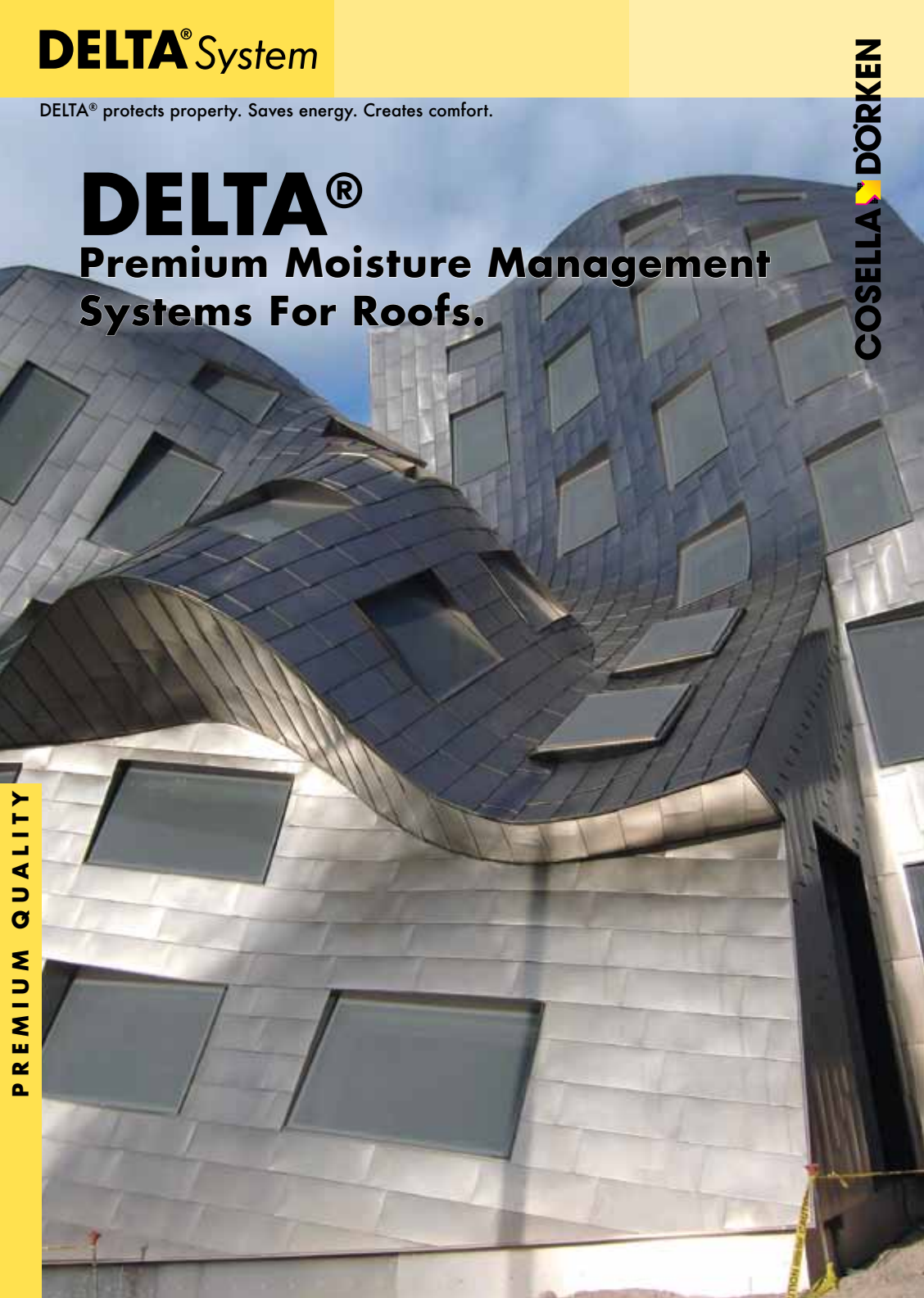
DELTA[®] System

DELTA[®] protects property. Saves energy. Creates comfort.

DELTA[®] Premium Moisture Management Systems For Roofs.

COSELLA DÖRKEN

PREMIUM QUALITY



DELTA[®] System



The Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, Nevada. Designed by Frank Gehry.

DELTA[®] Product:

DELTA[®]-TRELA under zinc cladding.

DELTA[®] Premium Moisture Management Systems provides the best protection for roofs.

DELTA[®] ROOF UNDERLAYMENTS provide premium protection against water leaks while allowing moisture vapor to escape.

The roof is one of the most critical components of a building enclosure. It provides shelter from the weather while adding architectural detail and beauty. As well, it plays important roles in occupant comfort and building life cycle.

DELTA[®] ROOF UNDERLAYMENTS prevent the passage of liquid water while remaining moisture vapor permeable to prevent unwanted moisture vapor build up. As insulation levels in attic space increase to keep up with the demand for more energy-efficient buildings, performance demands on roofs become very much like performance demands on walls. Just as in walls, effective moisture management is key to preventing rot and decay in structural components. Leaks, moisture vapor build up, and poorly located vapor barriers can lead to premature failure.

Roofing materials like standing seam metal, copper, or zinc are selected for their beauty and their longevity. Including DELTA[®]-TRELA in the design will help attain that longevity by draining moisture to prevent corrosion, creating a permanent ventilation space, allowing for thermal expansion and contraction and reducing precipitation impact noise.

DELTA[®]-VENT S is an excellent selection for high moisture vapor permeance with bulk water protection under a wide range of roof claddings.

DELTA[®]-FOXX and DELTA[®]-MAXX TITAN are superior choices under high end claddings like slate and concrete or clay roof tiles. The high performance of these two roof underlayments can help a substructure have a long lifespan to match the cladding.

DELTA[®]-ROOF is the premier choice for strength and durability under asphalt shingles, for “drying in”, or anywhere when moisture vapor permeability isn’t critical but leak protection is.

All DELTA[®] ROOF UNDERLAYMENTS are light and easy to handle. They are part of the DELTA[®] Premium Moisture Management System that ensures a durable and energy-efficient structure.

PREMIUM QUALITY





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DELTA®-TRELA

The Optimum Underlay for Metal-Clad Roofs.™

DELTA®-TRELA

- ...is an air-gap textured moisture vapor-permeable sheet.
- ...can be used in most types of metal-clad pitched roofs.
- ...consists of a base sheet laminated with an 5/16" (8 mm) thick dimple-textured random-fibre mat.
- ...provides a permanent air gap under the cladding.
- ...drains off moisture.
- ...allows residual water vapor in rafters and sheathing to escape due to the high permeability of the base sheet.
- ...reduces rain and hail impact noise by up to 15dB.
- ...has closely spaced dimple texturing for reduced friction, permitting free thermal expansion and contraction of cladding.
- ...can be installed in any direction required, e.g. at structural details.
- ...may be used in facades.
- ...very slip resistant.
- ...all-in-one separation layer and underlayment saves application time and money.
- Certified by test report from Scientific and Technical Construction Centre, Brussels/ Belgium.
- ... available in "Plus" version with self-adhering side laps.



DELTA®-VENT S

Highly Breathable Underlayment for Maximum Security.™

DELTA®-VENT S ...

- ... is a strong spun-bonded polypropylene composite breather membrane.
- ... is laminated by a special ultrasonic welding process ensuring secure layer bonding.
- ... is extremely rugged and withstands rough treatment on the site.
- ... includes a fabric mat layer on lower side which protects against damage e.g. from roughly sawed sheathing.
- ... is matte grey in colour, preventing blinding glare.
- ... is lightweight – only 0.029 lb/ft² (140 g/m²) making installation easy and safe.
- ... unrolls quickly and well aligned without fish mouths or buckles.
- ... will not get damaged by normal site handling such as being pulled or walked on.
- ... Class A Fire Rated.
- ... available in "Plus" version with self-adhering side laps.



ICC ESR-2625

CSA A220.1-06





ICC ESR-2625
CSA A220.1-06

DELTA®-FOXX

The Most Advanced Breathable Roof Underlayment on the Market.™

DELTA®-FOXX ...

- ...ensures that excess moisture is removed from roof structures due to its extremely high vapor permeance of 550 perms.
- ...is permanently and reliably waterproof thanks to its water-repellent dispersion coating.
- ...is extraordinarily tough.
- ...weighs approx. 0.045 lb/ft² (220 g/m²) and is easy to lay perfectly without distorting, buckling or fish mouths.
- ...can be pulled effortlessly over rough-sawn surfaces, thanks to the smooth underside structure – increasing laying speeds and reducing costs.
- ...is firm and safe under foot, plus highly scuff and tear-resistant. Laid on top of solid sheathing, this superior roofing membrane can be walked on with no problem, wet or dry.
- ...cuts out annoying reflections even in extremely sunny conditions, thanks to its special "anti-glare" coating.
- ... Class A Fire Rated.
- ... available in "Plus" version with self-adhering side laps.



DELTA®-MAXX TITAN

Thermomembrane.

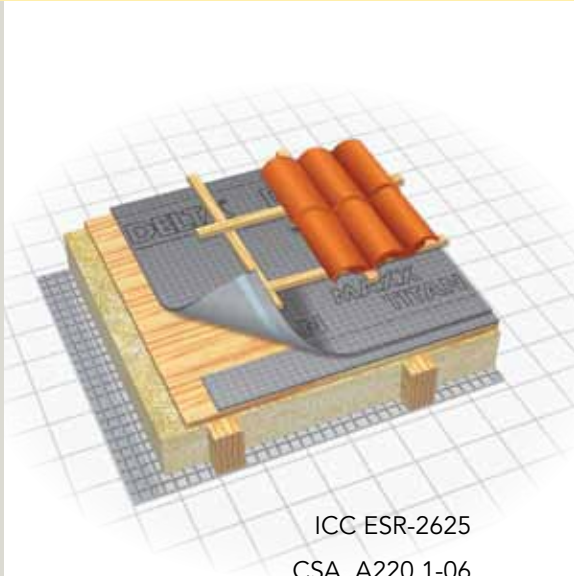
Warm in Winter! Cool in Summer.™

DELTA®-MAXX TITAN ...

- ...is a breathable, water and wind-proof thermomembrane offering heat protection all year round.
- ...lowers air exchange rates and, consequently, heat-energy consumption by up to 30 % and 9 %, respectively.
- ...reflects up to 50 % radiant heat.
- ...may lower attic temperatures on a hot day by as much as 3°F (2°C) compared to buildings equipped with conventional, non-reflecting base sheets*.
- ...is based on DELTA®-MAXX with a proven record of reliability over more than 20 years.
- ...features a moisture-storage layer: In extreme situations, the underside of the thermomembrane may absorb up to 3 oz per ft² (1litre/m²), to be gradually released outward through evaporation.
- ...is very vapor permeable, allowing moisture from the interior to safely escape to the outside.
- ...provides extremely high tear strength, making the product very safe to work with on the roof.
- ... Class A Fire Rated.

* Actual temperature reduction depends, among other conditions, on the room volume, the inclination of the roof, the roofing material, the orientation of the building, the size of the windows, and the thickness of the insulation material.

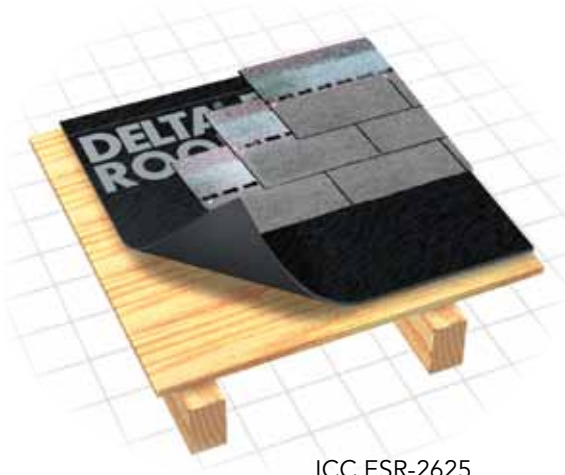
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DELTA®-ROOF

The Tough, Long Lasting Underlayment
for Asphalt Shingle Roofs.™

DELTA®-ROOF ...

- ...consists of four layers of material. A watertight layer between two spun-fibre fabrics and a reinforcement grid provides much improved wind resistance and longevity over asphalt saturated base sheets.
- ... is watertight and provides reliable protection against rain, wind, dust and driven snow.
- ...thanks to its special surface structure, is very abrasion-proof and non-slip, wet or dry.
- ...can be laid directly underneath all conventional roofing products.
- ...is pleasantly light in comparison to bitumen and asphalt saturated sheathing membranes.
- ...speeds up installation and reduces labor cost due to roll size and weight.
- ...can be combined perfectly with the DELTA®-REFLEX air and vapor barrier.
- ...Class A Fire Rated.



DELTA® ACCESSORIES

DELTA®-MULTIBAND

For use with DELTA® ROOF UNDERLAYMENT's. It is a highly aggressive tape that may be used on end laps, side laps and at penetrations.



DELTA®-FLEXX BAND

For use with all DELTA® ROOF UNDERLAYMENT's. It is a highly aggressive and very flexible tape that may be used anywhere permanent sealing is required.

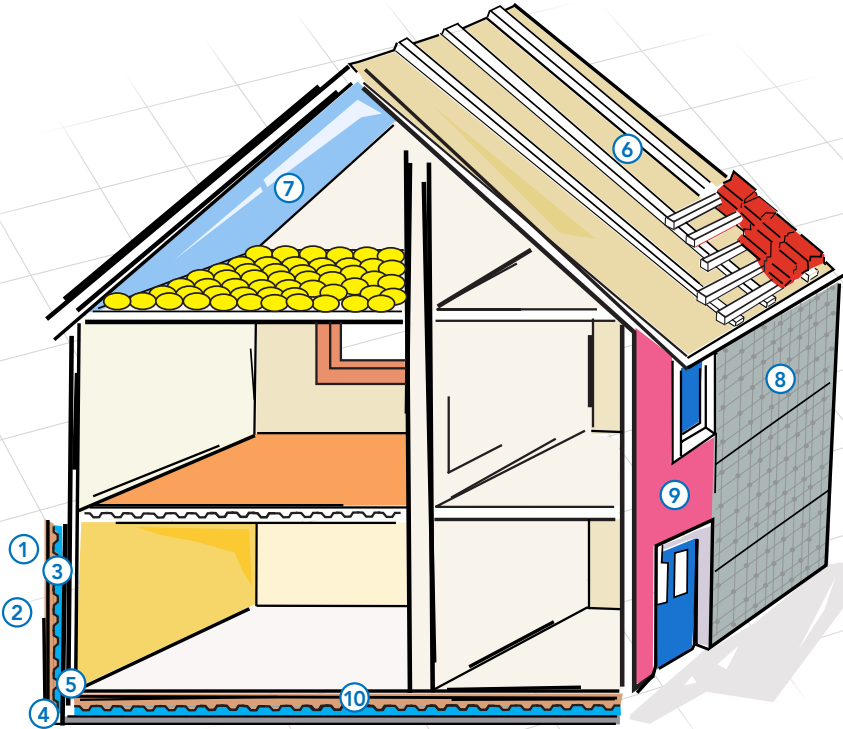


DELTA®-THAN

For use with all DELTA® ROOF UNDERLAYMENT's. Highly tacky elastic sealing compound and adhesive.



DELTA® SUSTAINABLE SCIENCE



- 1 DELTA®-MS**
The Foundation Wrap.™
- 2 DELTA®-DRAIN**
The Direct Route For Re-Redirecting Ground Water.™
- 3 DELTA®-THENE**
Self Adhering Waterproof Membrane.™
- 4 DELTA®-COLDJOINT BARRIER**
Below Grade Cold Joint Moisture Protection.™
- 5 DELTA®-FOOTING BARRIER**
Capillary Break Membrane For Footings.™
- 6 DELTA® ROOF UNDERLAYMENTS**
New Ideas For Better Roofs.™
- 7 DELTA®-REFLEX**
Vapor & Air Barrier.
- 8 DELTA®-DRY/ DELTA®-DRY STUCCO & STONE**
Ventilated Rainscreens For Absorptive Cladding.™
- 9 DELTA® WATER-RESISTIVE BARRIERS**
- 10 DELTA®-MS UNDERSLAB**
Underslab Vapor Retarder.™



Printed in Canada 01/12 v1 1m

DELTA®

COSELLA DÖRKEN

Cosella-Dörken Products Inc.
4655 Delta Way
Beamsville, Ontario
L0R 1B4
(905) 563-3255
Fax: (905) 563-5582
1-888-4DELTA4(433-5824)
info@cosella-dorcken.com
www.cosella-dorcken.com

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