Identifying genuine Onduline sheets

Data Sheet N°29

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It’s a basic truth when selecting any roofing product that you can’t judge its value simple by its price, only after careful consideration of its design; weathering performance and its projected service life set against its initial cost can you judge its true value.
Part 01: Q/A

Why the need for this data sheet?
Following the decision by a major DIY retail chain to purchase materials on a unified international single supplier basis a new supplier BTM who produce a multi-layer corrugated bitumen sheets are currently replacing Onduline manufactured products on major DIY retailers’ shelves, BTM branded materials are also being retailed through trade outlets.

This is of particular importance during the period of transition when both manufacturers’ products could be present within retailers stocks.

Accordingly our customers have requested advice on identifying these sheets to ensure they are purchasing genuine Onduline branded products. This data sheet is intended to facilitate this and also inform our customers product selection in consideration of the Onduline sheets quality and after sales support services.

Can I use BTM Multi-layer type sheets with Onduline?
No; as BTM multi-layer sheets have a smaller sheet size, corrugation profile and weight they are accordingly not compatible for use with Onduline sheets.

What is the difference in the product guarantees?
Onduline products are covered by a 15 year weathering guarantee* based on proven weathering performance and durability. In comparison the guarantee period of BTM multi-layer sheets is a lot less, typically two years at the time of writing. The BTM sheets are marketed with a unsupported claim of ‘10 year life expectancy’.

What after sales support is provided?
Our UK sales and technical team are pleased to assist you with your specific project and produce an extensive range of sales and technical literature with instructional films. In comparison the multi-layer sheet manufacturers provide a basic fixing leaflet.

Do Onduline produce a range of accessories?
Yes; we produce an extensive range of accessories and fixings to match your specific project requirements. They are designed to enhance weathering characteristics and make fixing the sheets easier and quicker. Whilst BTM multi-layer sheets only offer sheet, ridge, verge and nail fixings, severely limiting project versatility and ease of use.

Can you use Onduline roofing accessories or roofing systems with BTM multi-Layer sheets?
No; as they have different sheet dimensions, profiles and weathering performance they are not compatible. Whilst the use of multi-layer sheets with Onduline roofing systems such as the award winning ‘Ondutile tile underlay system’ which uses the Onduline Classic sheet as its base would both invalidate the BBA system certification and invalidate all other associated product and performance guarantees.

* Terms and conditions apply
Part 02: Visual sheet identification

Onduline products represent excellent value for money with its proven durability supported by comprehensive product installation information and after sales service; all our products are backed by guarantees to ensure we meet this commitment at all times.

This data sheet will enable you to both identify genuine Onduline branded roofing sheets and explain our advanced manufacturing technology to allow you to make an informed decision on selecting your roofing product against our competitors offer.

Visual sheet identification:
In most cases by stipulating to your supplier you require genuine Onduline sheets should be sufficient, or when purchasing sheets from a retail store checking the bar code on the sheet against the point of sale price point information to validate sheet type. Some sheets feature embossed branding and all are marked with its Quality control production information ink jetted on the last corrugation to allow us to trace the production data of each sheet.

However, to assist you please note the visual differences in Onduline products to multi-layer sheet types:

Note: Multi-layer sheet are susceptible to sheet edge delamination under impact loading, in comparison Onduline single thickness sheets are highly resistant to delamination.

Note: Multi-Layer sheet edges are often not as neatly trimmed as Onduline sheets with buring evident.
Sheet Ageing & Colour retention

Onduline sheets tested against BTM sheets in Q-SUN 3000h accelerated ageing apparatus which combines exposure to cycles light radiation and water sprays to replicate the service exposure of roofing products in service.

Q-SUN / 3000 Test apparatus:

Results:
Resistance to ageing and colour retention:
BTM delivers inferior performance to Onduline sheets, resulting in more base structure celulous fibres exposed, this accelerates the ageing of the sheet due to degradation of exposed celulous fibres fibres.

Resistance to colour fading / loss:
BTM delivers inferior colour retention performance when compared to standard Onduline sheets.
Sheet Ageing - Sheet deformation

Results:
Resistance to sheet deformation (sagging):
BTM delivers inferior performance to Onduline sheets to sheet deformation (sagging) between purlins), being 20% worse in comparison to Onduline standard 2.6 mm sheet, due in part to significantly higher water absorption rate of BTM sheet compared to Onduline standard grade sheets.

Note:
These tests were made using 2.6 mm Onduline standard sheet as the benchmark product. The Onduline Classic 3 mm sheet is superior in turn to the performance of the 2.6 mm sheet performance.
The only manufacturer producing a single-layer mono thickness base sheet (compared to our competitor’s multi-layer thickness base sheet).

**ONDULINE® PIGMENTED HOMOGENEOUS SHEET CONSTRUCTION**

- **BASE SHEET MANUFACTURED FROM CELLULOSIC FIBRES IN SINGLE THICKNESS PROVIDING SUPERIOR BITUMEN IMPREGNATION, = MECHANICAL STRENGTH & SHEET RIGIDITY**

- **INORGANIC PIGMENTS & RESIN APPLIED TO THE BASE SHEET PRIOR TO BITUMEN IMPREGNATION TO ENSURE OUTSTANDING COLOUR RETENTION**

**Onduline production technology**

- **SUPERIOR COLOUR RETENTION AND WEATHERING PERFORMANCE**

- **ENHANCED STRENGTH & RIGIDITY, BENDING & TEARING RESISTANCE.**

- **QUALITY ASSURED LOWER WATER ABSORPTION, HIGHER WEIGHT CE NATIONAL & BBA PRODUCT ACCREDITATION**
Part 03: Competitors Technology

MULTI-LAYER BASE SHEET CONSTRUCTION

Many competitors sheets on the market have a lower weight (< 5kg) – mainly multilayer sheets
• Impregnation rate often < 70% instead of 90% with Onduline production process
• Impregnation not homogeneous (no bitumen = weakness)
• High absorption of water (> 20% => not in conformity with EN 534 standards)
• Resistance to shock is 2/3 lower for multilayer regarding maximum energy absorbed by the material

COMPETITORS MULTI-LAYER BASE SHEET CONSTRUCTION
Sheets smaller size m, thinner mm & lighter kg
Guarantee Shorter Colour fastness Inferior*

ONDULINE SINGLE-THICKNESS BASE SHEET TECHNOLOGY
Sheets larger size m, thicker mm & heavier kg
Guarantee 15 year* Colour fastness Assured

* Note: Eight week UV exposure on roof
* Terms and conditions apply
# Part 04: Sheet Comparison

<table>
<thead>
<tr>
<th>Sheet type</th>
<th>Sheet size (nominal)</th>
<th>Thickness mm (nominal)</th>
<th>Weight per sheet kg (nominal)</th>
<th>Sheet Profile mm</th>
<th>Sheet Standards Reference</th>
<th>Guarantee Period Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onduline Classic Pro Sheet</td>
<td>2.000 m X 0.950 m</td>
<td>3 mm</td>
<td>6.4 kg</td>
<td>95 x 38 mm</td>
<td>EN 534 – CE</td>
<td>15 years</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Onduline 1823 –3055 Ondutile</td>
<td></td>
<td>Inclusive of agricultural &amp; roofing system applications</td>
</tr>
<tr>
<td>Coroline Trade Sheet</td>
<td>2.000 m X 0.950 m</td>
<td>2.6 mm</td>
<td>5.6 kg</td>
<td>95 x 38 mm</td>
<td>EN 534 – CE</td>
<td>15 years</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Domestic applications</td>
</tr>
<tr>
<td>Corrubit A Multi-Layer Sheet</td>
<td>2.000 m X 930</td>
<td>2.4 mm, 2.2 mm</td>
<td>4.65 kg</td>
<td>93 x 35 mm</td>
<td>EN534 - CE</td>
<td>2 year</td>
</tr>
</tbody>
</table>

**British Board of Agreement certification:**
Onduline Classic sheets are covered by BBA product certification for the sheet and Ondutile under tile secondary roofing system which uses Onduline classic as its base sheet.

**Finding suppliers of Onduline products:**
The easiest way is to contact our sales office who will be pleased to provide details of your local supplier, whilst in terms of national DIY retailers: Wickes supply our professional Onduline Classic sheets

**Please note:**
Onduline Data sheets provide additional general information on our products, related services and environment issues effecting roof coverings; they are based on the experience and views of our technical managers. We therefore recommend that whilst you consider the views expressed you should undertake further independant research and seek professional assistance as required on your specific project.

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**NOTE:** Onduline Building Products Ltd, fully respect the right of any retailer to change its supplier and product range and we do not seek to criticise or otherwise question the validity of this decision, or that of the new suppliers products. Our intention is therefore limited to simple informing our established customers who formally purchased our materials through these retailers, how to both identify genuine Onduline products and obtain Onduline manufactured sheets.