

[ Between us, ideas become reality.™ ]

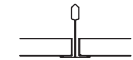
## Orcal Board, Flush Tegular, Tegular & MicroLook

This Technical Data Sheet is offered as an aid to the specification of our products and provides information on the tiles manufactured at our European production facilities.

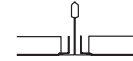
Orcal tiles with Standard Perforation and Microperforation are available with factory applied black acoustic fleece, whilst Orcal tiles with Extra Microperforation are always supplied with factory applied black acoustic fleece.

Orcal tiles can also be made available to order with Premium B15 infill.

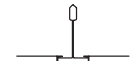
Please contact Armstrong Internal Technical Sales Group for further details.



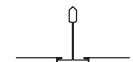
mm	Plain	Standard Perforation	Microperforation	Extra Microperforation
<b>Board</b>				
600 x 600	BP9334M	BP9335M	BP9427M	BP2771M
1200 x 600	BP2123M	BP2125M	BP2132M	BP2772M



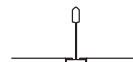
<b>Flush Tegular</b>				
600 x 600	BP9442M	BP9443M	BP9444M	BP2786M



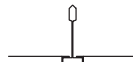
<b>Tegular 24/8</b>				
600 x 600	BP9683M	BP9684M	BP9685M	BP2783M
500 x 500	BP4833M	BP4834M	BP4835M	BP2784M
675 x 675	BP2138M	BP2139M	BP2140M	BP2785M



<b>Tegular 24/16</b>				
600 x 600	BP9680M	BP9681M	BP9682M	BP2779M
500 x 500	BP4803M	BP4804M	BP4805M	BP2781M
675 x 675	BP2135M	BP2136M	BP2137M	BP2780M
750 x 750	BP2582M	BP2583M	BP2584M	BP2782M



<b>MicroLook 15/8</b>				
600 x 600	BP9320M	BP9339M	BP9324M	BP2184M
500 x 500	BP9321M	BP9436M	BP9325M	BP2792M
675 x 675	BP9165M	BP2208M	BP2210M	BP2793M
750 x 750	BP2588M	BP2589M	BP2590M	BP2794M



<b>MicroLook 15/16</b>				
600 x 600	BP4700M	BP4701M	BP4702M	BP2787M
500 x 500	BP2190M	BP2194M	BP2207M	BP2788M
675 x 675	BP2144M	BP2152M	BP2153M	BP2891M
750 x 750	BP2585M	BP2586M	BP2587M	BP2789M

Availability of products may vary according to country. Please contact your local Armstrong office for Product range information.

Custom sizes are available to special order.

<b>Material</b>	Tiles are manufactured from zinc coated mild steel. Steel gauge dependent on product size.		
<b>Finish</b>	Factory applied polyester powder coat, minimum thickness 55 microns.		
<b>Colour</b>	Standard:	RAL 9010 & 'Global White'	
	Semi-Standard:	RAL 9001, RAL 9002, RAL 9006, RAL 9007, RAL 9016	
	Other colours are available as special order items.		
<b>Gloss</b>	RAL 9010 :	20%	
	Global White :	20%	
	Semi-Standard :	30%	
	Measured in accordance with ISO 2813:2000, use 60° geometry.		

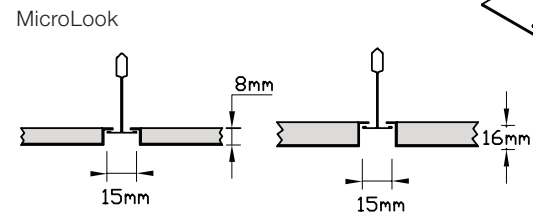
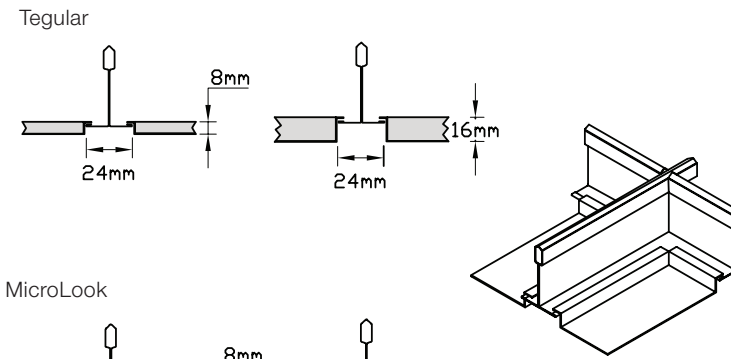
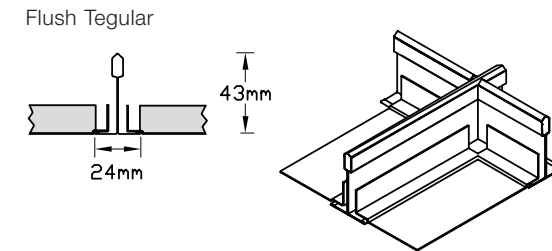
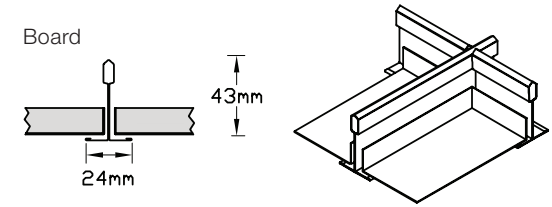
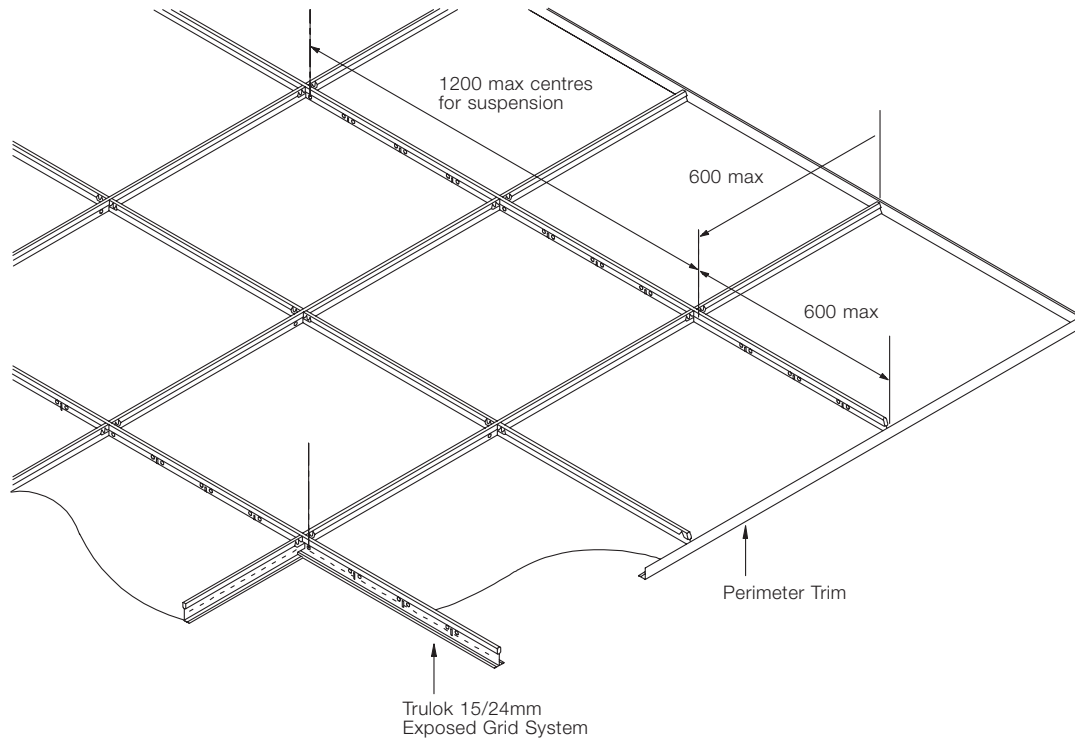
Light Reflectance	Pattern	RAL 9010		Global White	
		Standard	Microperforation	Standard	Microperforation
	Plain (unperforated)	87%	77%	77%	77%
	Extra Microperforation with black fleece	85%	76%	76%	76%
	Microperforation with black fleece	71%	63%	63%	63%
	Standard Perforation with black fleece	75%	68%	68%	68%
	Measured in accordance with ASTM 1477-98.				

<b>Perforations</b>	<p>Standard Perforation 2.5mm dia.holes 16% open area</p>	<p>Microperforation 1.5mm dia. holes 22% open area</p>	<p>Extra Microperforation 0.7mm dia. holes 1% open area</p>
	Other perforations are available as special order items. Please contact ITS for options and capabilities.		

All measurements are in millimetres.

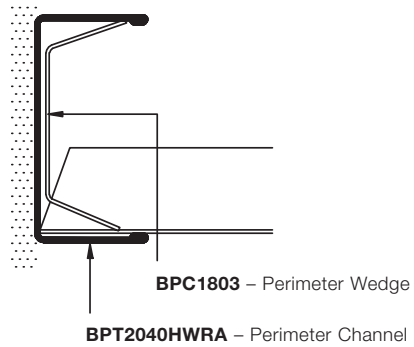
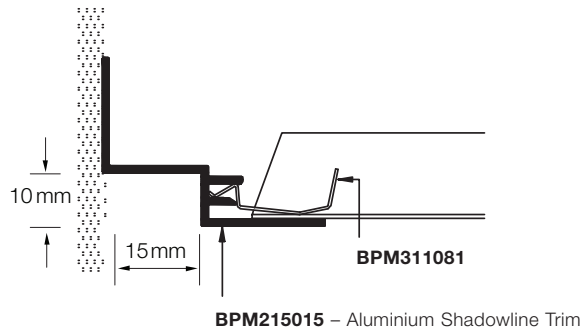
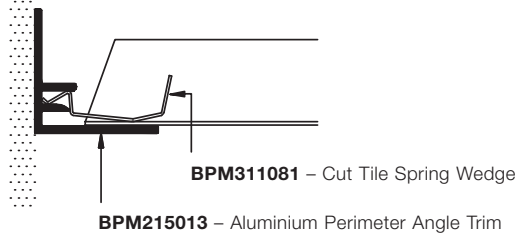


# Grid Layout



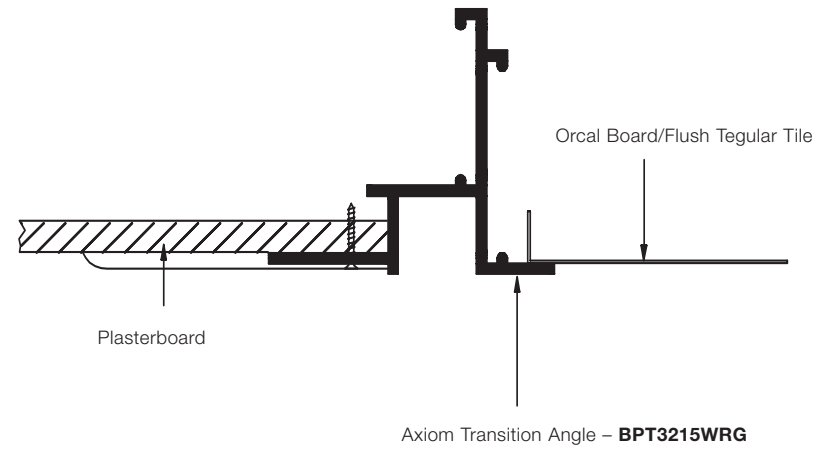
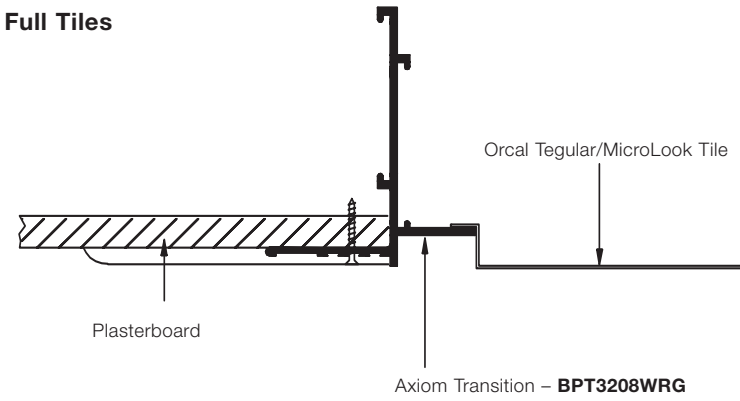
## Perimeter Solutions

### Cut Tiles



Cut tile wedges **BPM311081** and **BPC1803**, 1 piece per 300mm of perimeter trim is recommended

### Full Tiles



**Acoustic Performance****Sound Absorption ( $\alpha_w$ )**

	Acoustic fleece	Premium B15 infill
Standard Perforation	0.70 (L)	0.60 (H)
Microperforation	0.75 (L)	0.60 (H)
Extra Microperforation	0.55 (L)	0.65 (L)

**No acoustic infill ( $\alpha_w$ )**

Plain 0.10(L)

**Room-to-room sound attenuation (Dncw)**

	Acoustic fleece	Premium B15 infill
Standard Perforation	20 dB	41 dB
Microperforation	20 dB	41 dB
Extra Microperforation	30 dB	40 dB
Plain	-	47 dB

**No acoustic infill (Dncw)**

Plain 44 dB

A range of acoustic infills is available to achieve various acoustic performance levels. For further information please contact Armstrong Internal Technical Sales Group.

**Tile Loading**

Orcal tiles are capable of directly supporting limited additional loads from small service fittings. The maximum total uniformly distributed static load that can be applied to the rear of a 600x600mm tile should not exceed 3kg. The use of a patrix is recommended to distribute the load and to minimise face deflection of the tiles. Loads greater than 3kg should be independently suspended or supported from the primary grid. The maximum distributed static load that can be carried by the grid system should not exceed 10 kg/m<sup>2</sup>. (Applies to standard ladder formation with main runners and hangers at 1200mm centres.)

**Services Integration**

Orcal tiles can be supplied with factory produced cut outs and apertures for the integration of lighting fittings, air grilles, sprinklers, and other building services equipment.

**Handling and Storage**

Ceiling components should be stored under conditions of use in a dry interior location and should remain in cartons until installation. Cartons should be stacked and oriented as shown on the carton. Care must be exercised during handling and opening of cartons to avoid damage. The use of soft cotton gloves is recommended for tile installation.

**Environmental**

Our metal ceilings have an average of 25% recycling content. ISO 14001:2004 certified process.

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[www.armstrong-ceilings.ie](http://www.armstrong-ceilings.ie)
**Other markets: [www.armstrong-europe.com](http://www.armstrong-europe.com)**
**Thermal Conductivity**
 ( $\lambda$ ) W/mK  
 50.0 : Steel  
 0.04 : Acoustic fleece
**Humidity Exposure**

Not greater than 70% RH @ 16°-23°C for long term exposure. Not greater than 95% RH for short term exposure during building site installation.

**Fire Reaction****Plain without acoustic infill**

EEA Euroclass A1 (RAL 9010)

EEA Euroclass A2-s2, d0 (other colours)

**No acoustic infill**Perforated  $\phi \leq 2.5$  mm

EEA Euroclass A1 (RAL 9010)

EEA Euroclass A2-s1, d0 (other colours)

**With acoustic Fleece, ABBTF pad or B15 infill**Perforated  $\phi \leq 2.5$  mm (acoustic fleece)

EEA Euroclass A2-s2, d0

Perforated  $\phi \leq 2.5$  mm (ABBTF pad)

EEA Euroclass A1

Perforated  $\phi \leq 2.5$  mm (Premium B15 infill)

EEA Euroclass A2-s1, d0

**Weight**5 kg/m<sup>2</sup> – Steel tile**Field Cutting**

Orcal tiles can be cut using tin snips, electric sheet metal shears or band/jig saw. Care must be exercised to avoid damage to the painted surface, bending or distortion of the tiles.

**Cleaning**

Dust should be removed from the painted surface by wiping with a clean soft cloth. More stubborn marks should be removed with a mild household detergent in warm water. Excessive use of water should be avoided. The use of abrasive cleaners or scrubbing of the painted surface is not recommended.

**Quality Standard**

Armstrong is a certified ISO900:200 Quality Assumed Manufacturer. All tiles and products are manufactured to tolerances and quality standards in accordance with EN13964. Where differences exist between this and any expressed or implied architectural specifications or requirements than Armstrong's manufacturing standards will prevail unless stated otherwise.

Detailed NBS K40 specifications are available for these products, please contact Armstrong Internal Technical Sales Group for further details. All product specifications are subject to modifications without prior notice.