

# CEILING SYSTEMS

[ Between us, ideas become reality.]



ULTIMA VECTOR



# ULTIMA VECTOR

A design solution to fulfil current architectural trends

Today's trends require ceilings to be as **plain and smooth** as possible with minimal grid and **full access to the plenum**, making maintenance quick and easy.

In response to these demands, Armstrong have developed the **Vector edge detail**. The tiles are installed on a standard 24mm grid, with the **tiles virtually concealing the grid**.

Added to this, the tiles can be **easily installed and removed from below**, making Ultima Vector ideal in areas where the plenum height is limited.

## aesthetical

The **Ultima** face pattern provides an **unperforated, lightly textured surface design** with all the performance benefits associated with Ultima, excellent acoustical qualities, extra durability, with a refined visual appearance. Its **high light reflectance** (88%) reduces lighting costs and makes for a pleasant working environment.

The **clean crisp detailing of the Vector edge** reduces the visible width of the grid to only 6mm, creating a smart, clean looking ceiling. Vector gives the impression that the tiles are freely suspended from wall to wall.



*Ultima Vector installed on Prelude 24 with a 6mm grid reveal*



## THE ULTIMA RANGE MEETS THE MOST DEMANDING TESTS

As with all Ultima tiles, the white smooth **surface is reinforced** and **scratch resistant**. The tile edges are specially treated with an edge hardening process for easier handling and installation whilst giving extra protection for frequent removal.

# durable

The tough surface gives the tile an **impact resistant** quality and reduces the accumulation of surface dirt therefore increasing its life cycle.

Ultima Vector can be cleaned frequently as its tough surface makes it resistant to damage by abrasion.

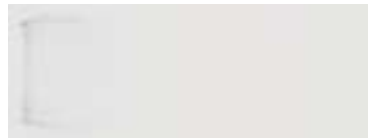


*Ultima Vector with hardened edge detail*

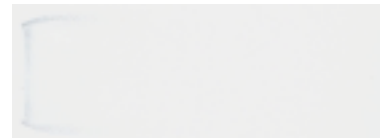


### ► Soil resistance - Simulated supply air diffuser soiling test

The simulated supply air diffuser soiling test evaluates this soil-resistant property. Dirt accumulation not only detracts from a ceiling's appearance, but can cost money by requiring painting or replacement of the ceiling. In addition to reducing acoustical efficiency, soiling can cause a substantial reduction in light reflectance. Ultima provides excellent soil resistance for lasting value and performance.



*Typical ceiling*



*Ultima*

### ► Impact resistance - Preston impact test

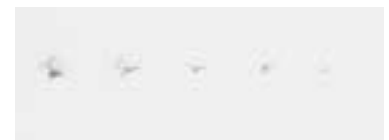
Ceilings in corridors or public areas need to withstand abuse, including surface impact. The Preston Impact Test evaluates a ceiling's impact resistance.

- The test measures how deeply a 1.6 cm spherical object indents or penetrates a ceiling's surface at different levels of force or energy.
- Penetration depth is measured as force is steadily increased - up to 20 inch-pounds, or until surface breakthrough.

These photos show the impact resistance of Ultima vs a typical ceiling.



*Typical ceiling*



*Ultima*

### ► Scratch resistance - Hess Rake Test

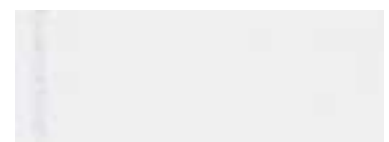
In any areas where lay-in ceiling panels frequently need to be removed for plenum access, surface scratch resistance is highly desirable. The Hess Rake Test evaluates surface scratch resistance.

- Spring steel shims (or feeler gauges) are dragged across the ceiling surface as various levels of force are exerted.
- The test proceeds until surface scratching is observed

These photos show the scratch resistance of Ultima vs a typical ceiling.



*Typical ceiling*



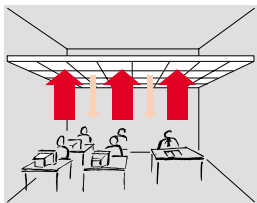
*Ultima*

Meeting today's demanding requirements, Ultima Vector provides an **excellent balance between sound absorption and attenuation.**

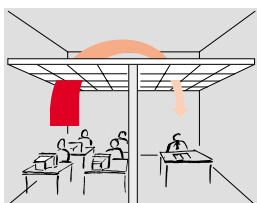
Its significant sound absorption of  $\alpha_w$  0.70 (H) helps to control excessive reverberation and limits the build-up of noise, both of which are so important in providing the quality aural environments necessary for good communication and mental activities...

# acoustical

Ultima Vector's sound attenuation is also above average and this will ensure that sound transmission between adjacent offices is kept to a minimum so as to aid the confidentiality of private discussions and allow for better concentration and productivity.



Sound  
absorption  
 $\alpha_w$   
**0.70 (H)**



Sound  
attenuation  
Dncw  
**36 dB**



### Downward removability

With many buildings having congested plenums where normal upward access is impossible or difficult, the Vector edge detail allows total **downward access** making maintenance work easier and faster.

# practical

### Refurbishment

For **renovation**, Ultima Vector can be installed on an existing 24mm grid. As the grid is virtually hidden by the tile, the grid should not need to be refurbished providing the grid is suitable and square.

*For suitability of grid and perimeter trim, please refer to the technical data sheet.*



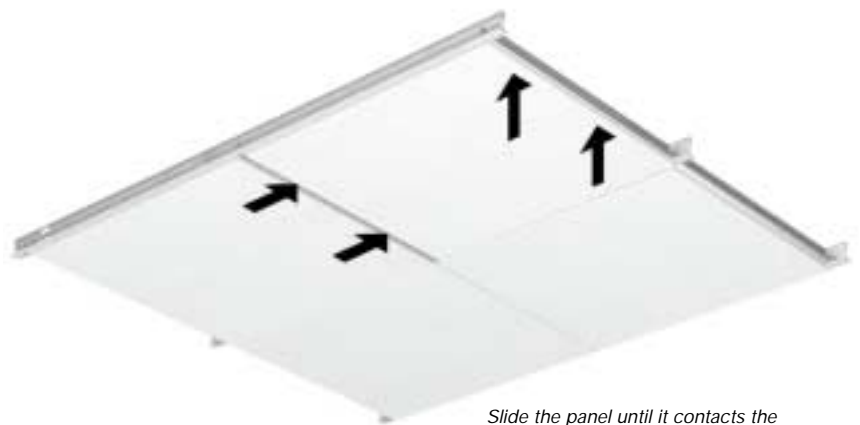
*Tiles can be removed from below without the aid of a tool*



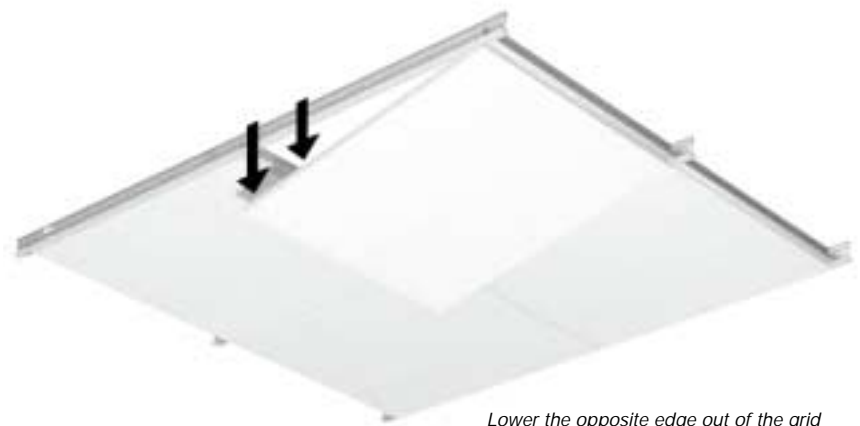
*Downward demountability provides easy access to the ceiling void*



*Push the panel up against the grid flanges and find the one direction it will move.*



*Slide the panel until it contacts the adjacent panel.*



*Lower the opposite edge out of the grid opening and slide the panel off the flange.*



*Remove the panel.*

# ULTIMA VECTOR

Until now specifiers could choose two tiles with the Vector edge detail: Axal and Optima. Due to customer demand, Armstrong is now introducing an Ultima Vector tile, and will continue to develop the Vector range.

**Ultima Vector** can also be installed in all the areas where a **high level of design** is required such as reception rooms, lobbies, and lounges etc.

**Ultima Vector** is part of the existing Ultima range and has the **same high quality** and **visual aesthetics of this family**.

## Ultima Vector details



Prelude 24mm XL / TL

Size:	<b>600 x 600 x 19mm</b>
Sound absorption $\alpha_w$ :	<b>0.70 (H)</b>
Sound attenuation Dncw:	<b>36 dB</b>
Light reflectance:	<b>88%</b>
Fire reaction:	<b>Class 0/Class 1</b>
Humidity resistance:	<b>95RH</b>
Thermal conductivity $\lambda$ :	<b>0.052-0.057 W/m<sup>2</sup>K</b>
Weight:	<b>5.2 Kg/m<sup>2</sup></b>



Compatible with i-ceilings wireless



For sound systems, use Ultima Tegular sound panels

### Advisory note

All photographic and design elements supplied in this brochure do not necessarily reflect any recommendation by any of the companies named in this brochure as to the proper use or recommended methods of installation of suspended ceilings and are supplied only as informative material.

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### United Kingdom

### Republic of Ireland

Armstrong World Industries Ltd.

Building Products Division

Armstrong House

38 Market Square

Uxbridge UB8 1NG

**0800 371849 (UK)** **FREEPHONE**

**1800 409002 (ROI)**

Fax: 00 44 (0) 1895 274287

www.armstrong-ceilings.co.uk

e-mail: sales-support@armstrong.com

### Vector family:

Ultima (mineral), Axal (metal) and Optima (soft)



Ultima Vector



Axal installed on black grid



Optima Vector

