

# ULTIMA

## Aluminium Spandrel Panels

The ULTIMA aluminium insulated spandrel panel is the most tested spandrel panel on the market and offers high-performance solutions to construction projects requiring both technical excellence and aesthetic appeal.

Tested rigorously to BS EN 13501-1 standards, ULTIMA spandrel panels can be manufactured to achieve either A1 or A2 - s1,d0 classifications, ensuring compliance with regulations regarding the use of non-combustible cladding. With the widest field of application on the market, ULTIMA panels offer designers the flexibility they require to meet specific project requirements while maintaining optimal fire performance and documented compliance.

Additionally, the ULTIMA range has been subjected to impact and wind resistance testing to CWCT standards, successfully meeting all designated criteria. Whether for new construction or cladding replacement projects, ULTIMA panels provide a versatile, compliant and reliable solution.



### REACTION TO FIRE PERFORMANCE

A1 & A2 - s1,d0 classification to BS EN 13501-1



### IMPACT RESISTANCE

Soft & hard body impacts fully tested to CWCT TN75/76 Standards



### WIND RESISTANCE

Fully tested to CWCT standards



Low maintenance



Strong and durable



Ease of installation



Limitless colour options



Perfect for replacement of non-compliant spandrels



Panels can be fitted into Structural Glazing systems

# REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-1

## IMPACT RESISTANCE

Metalline's ULTIMA spandrel panels have been impact tested in accordance with CWCT TN75/76 (soft body and hard body impacts) achieving the highest classification.

Soft Body Impacts		
120 J Serviceability	350 J Safety	500 J Safety
Class 1	Negligible risk	Negligible risk

Hard Body Impacts		
3 J Serviceability/Safety	6 J Serviceability	10 J Serviceability/Safety
Class 1/Negligible risk	Class 1	Class 1 / Negligible risk

## WIND RESISTANCE

Metalline's ULTIMA spandrel panels have been tested in accordance with CWCT standards for wind resistance.

1. Resistance to wind load – deflection
2. Wind resistance – safety

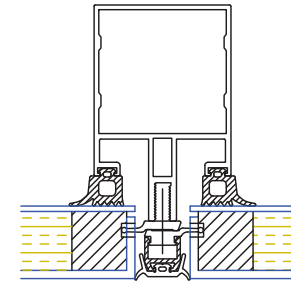
**Serviceability** = 2400 Pascals (positive and negative)

**Safety** = 3600 Pascals (positive and negative)

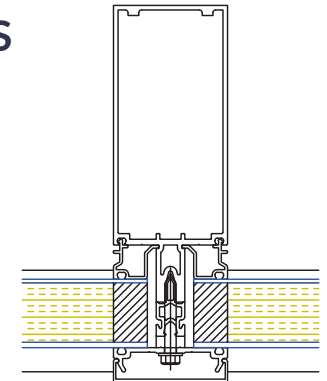
**Ultimate** = Wind resistance to failure (or up to 4500 Pascals)

**THE MOST TESTED SPANDREL PANEL ON THE MARKET!**

## TECHNICAL DRAWINGS



Typical detail for panels used with structural glazing systems

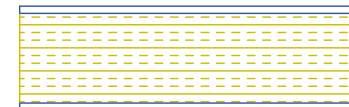


Typical detail for panels used with curtain walling systems

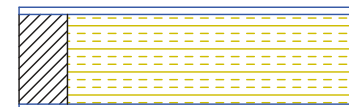
## EDGE DESIGN OPTIONS



ULTIMA A1 - Outer tray with thermal break and mechanically fixed inner sheet



Insulation core



Perimeter edge/thermal break

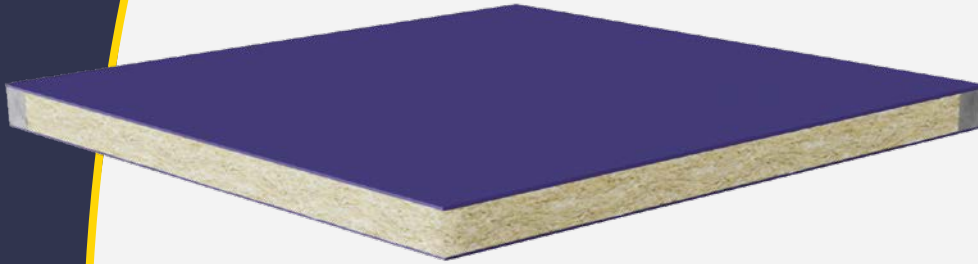


Routed edge detail for structural glazing

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# 1



**External:** Aluminium sheet with anodised or PPC finish

**Core:** Fabrock Clad insulation

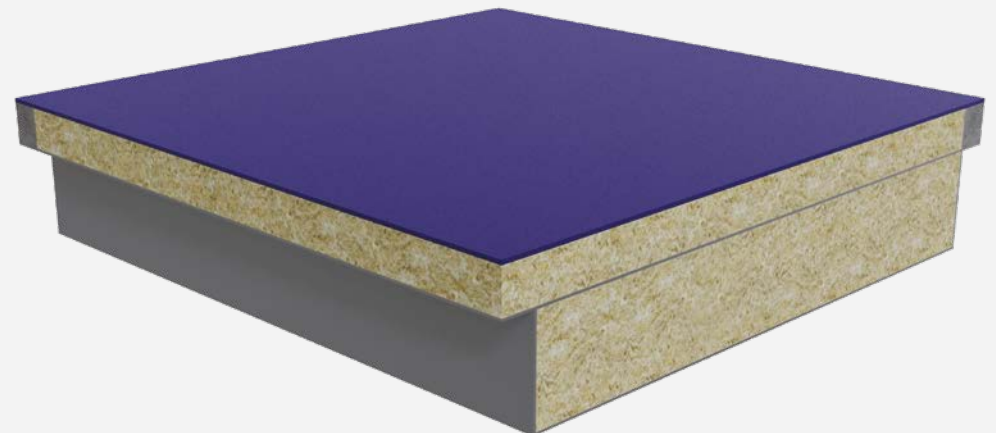
**Internal:** Aluminium tray with anodised or PPC finish  
/ Mill finish aluminium / Pre-galvanised steel

Adopting a stepped tray design like in ULTIMA 2, 4 and 5 allows for increased amounts of insulation to be used to improve the panel's thermal performance whilst maintaining the desired glazing edge thickness.

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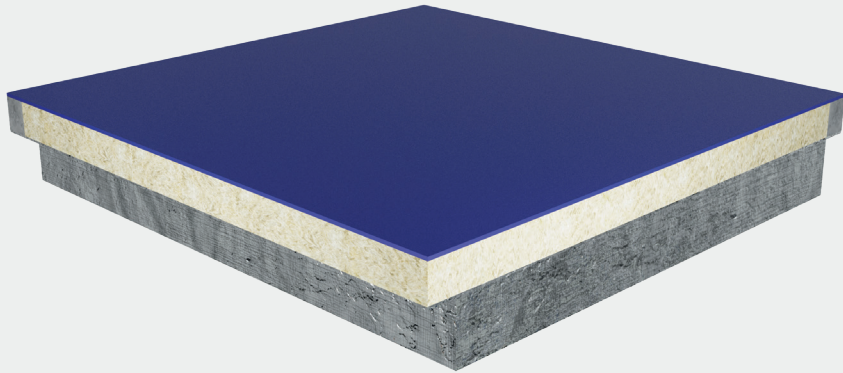
# 2



# ULTIMA

Aluminium Spandrel Panels

# 3

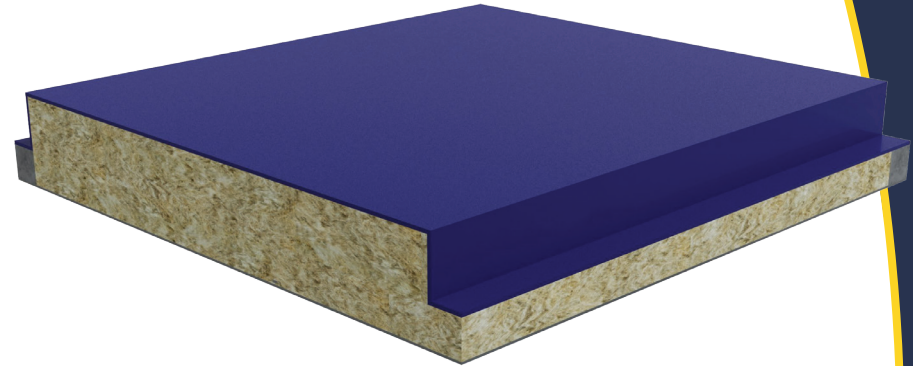


The ULTIMA 3 design uses an aluminium foil encased section of mineral wool insulation bonded to the back of an ULTIMA 1 panel to improve the panel's thermal performance whilst maintaining the desired glazing edge thickness.

# ULTIMA

Aluminium Spandrel Panels

# 4



# ULTIMA

Aluminium Spandrel Panels

# 5

