

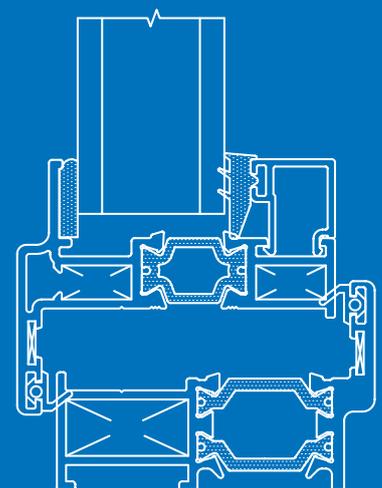
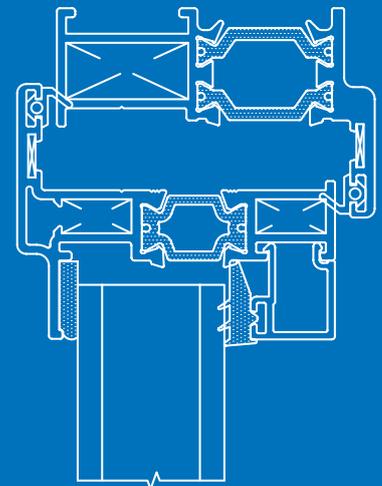


**smart**  
architectural aluminium

## Evolution

The ideal window and door solution for heritage applications such as listed building renovations where planning regulations demand a like-for-like replacement window with optimum thermal performance.

- Window Energy Rating B
- U Value 1.6 W/m<sup>2</sup>K
- BS 6375 Part 1: 2009  
Resistance to Weather



# Evolution Window

Evolution provides the ideal solution for heritage applications such as listed building renovations and large scale replica-refurbishment projects where planning constraints are to be considered.

The Evolution window is designed to be built as a series of horizontal modules which can be stacked using horizontal couplers to form a multi-part window featuring a specially design drip bar between modules.



## Application

- Fixed windows
- Single or double sash open out casements
- Top hung open out casements

## Features

- Polyamide thermal break provides enhanced thermal performance
- Designed as a direct replacement for steel windows

## Finish

Single or dual colour, marine quality polyester powder coat as standard

## Technical Performance

<b>WER Rating</b>	B
<b>U Value</b>	1.6 W/m <sup>2</sup> K
<b>Air</b>	Class 3, 600pa
<b>Water</b>	Class AE, 2400pa
<b>Wind</b>	Class E1050
<b>Doc L 2010</b>	Yes

## Dimensions

<b>Frame Depth</b>	47mm
<b>Glass</b>	24mm

## Test Certification

BS 6375 Part 1: 2009 Resistance to Weather

## Recommended Design Limits

Side Hung Vent Max o/a width: 700mm  
 Side Hung Vent Min o/a width: 300mm  
 Side Hung Vent Max o/a height: 1400mm  
 Maximum Vent weight: 24kg  
 Top Hung Vent Max o/a width: 1400mm  
 Top Hung Vent Max o/a height: 1200mm  
 Top Hung Vent Min o/a height: 220mm  
 Maximum Vent weight: 35kg

# Evolution Door

The Smart Evolution door is the ideal replacement for steel balcony doors on heritage applications such as building renovations or apartment conversions. The Evolution door provides the solution for conservation areas where planning regulations require a like-for-like product replacement. Evolution doors profiles feature the system's signature slim sightlines and elegant lines that complement Smart's existing Evolution window and mimic those of steel doors. The system has all the advantages of modern aluminium profiles that feature Polyamide thermal breaks, allowing the system to achieve a U Value of 1.8 W/m<sup>2</sup>K when installed with a suitable sealed unit.

## Application

- Single or double doors

## Features

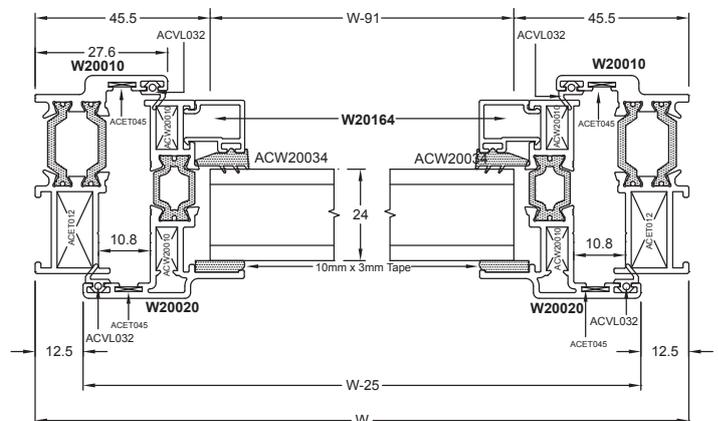
- Slim sightlines
- Tape or gasket glazed
- Single point locking and face mounted shoot bolts

## Technical Performance

<b>U Value</b>	1.8 W/m <sup>2</sup> K (using suitable glass unit)
<b>Air</b>	Test result pending
<b>Water</b>	Test result pending
<b>Wind</b>	Test result pending
<b>Glass</b>	24mm – 32mm
<b>Typical Sightlines</b>	59mm

## Recommended Design Limits

<b>Max Width</b>	900mm
<b>Max Height</b>	2100mm



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