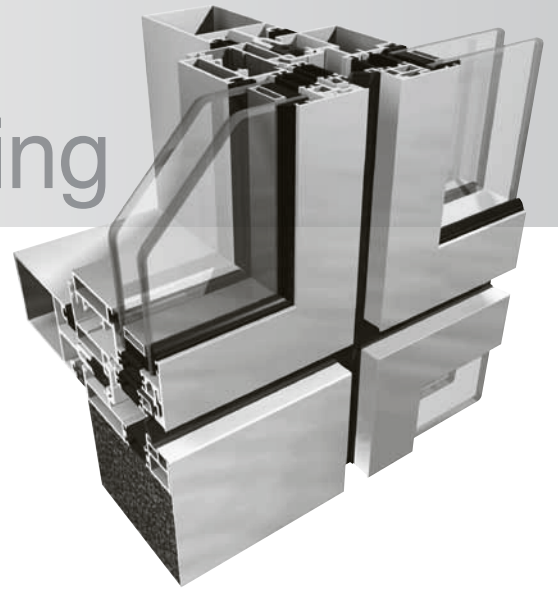


# System 17 Cassette Curtain Walling

The “Cassette Curtain Walling” system has been developed as an extension to the Metal Technology standard System 17 High Rise Curtain Walling. This system offers the ease of unitised cassette assembly for fixed lights, top hung vents and panels with fixed heights and opening vents appearing the same.



## Specification Overview

### Introduction

The system is based on the tried and tested Metal Technology System 17 curtain walling. The Cassette curtain walling makes use of all of the standard System 17 mullion and transom structural sections.

The system is designed to provide a uniform grid with a 19mm recessed joint. It provides consistent sight lines whether fixed lights or opening lights are installed. It also allows installation of flush faced panels while maintaining the 19mm recessed joint within the grid.

As with all Metal Technology systems, the Cassette curtain walling system is manufactured to exacting standards enabling economy to be combined with strength to give many years of aesthetic, trouble-free operation.

### Thermal Performance

Metal Technology Cassette curtain walling, in conjunction with the correct glass specification, is designed to aid compliance with the latest thermal requirements of the current building regulations.

### Scope

This specification defines materials, construction, finishes and size limits for the Cassette curtain walling system.

### Materials

Aluminum profiles are extruded from aluminum alloy 6060T6, T5 or T4 complying with the recommendations of BS EN 12020 -2 / BS EN 755-Parts 1 to 9.

Polyamide thermal breaks are produced from glass reinforced nylon sections designed to withstand temperatures in excess of 200°C, allowing the sections to be powder coated after thermal breaking.

### Finishes

The range of sections can be provided in either of the following range of finishes:

1. Anodised to BS 1615 or BS 3987
2. Powder organic coated to BS 6496 or BS EN 12206-1

Where required, a different colour/finish can be provided internally and externally.

### Construction

Curtain walling framing members are manufactured as detailed in the System 17 manual. Sash and frame members to the cassette inserts are mitre cut at 45°, corners are reinforced with extruded aluminium crimping cleats and corner braces. A secure joint is formed by pneumatically crimping into the corner assembly. Metal Technology do not recommend façetting the Cassette curtain walling system. Metal Technology

recommend that A2 or A4 Austenitic (300 series/class 70) stainless steel fixing screws are used in the assembly of their products.

### Glazing

All fixed and opening lights are factory glazed. Glass is set against internal captive gaskets. External clip in beads are then fitted to the frame and held secure by means of wedge gaskets.

Glazing accommodates 32mm double glazing units only.

### Installation

Detailed installation instructions for the curtain walling grid are provided in the System 17 fabrication manual which should be strictly followed. The pre-glazed Cassette frames and panels are secured to the curtain walling grid using concealed fixing lugs compressing the inner gaskets to form an airtight seal.

All external vertical and horizontal joints are sealed with EPDM vee gaskets bonded to moulded corner pieces at the intersections.

### Performance

This system has been designed as a front sealed gasketed system. Where overall screen height exceeds 30 metres or where screen requirements differ from those stated in this literature, refer to Metal Technology's Technical Department.

### Casement Windows

The system incorporates top hung open out casement window inserts. The sections are designed to suit heavy duty friction hinges and a multi-point locking system. Sashes must be restricted to prevent opening beyond 100mm.

Metal Technology should be contacted for any special operating or ironmongery requirements.

### Maximum Size Limits

#### FIXED LIGHTS

Where individual carrier frame units are greater than 4m<sup>2</sup> or 160 Kg the advice of Metal Technology's Technical Department should be sought.

#### CASEMENT VENTS

Vent Width	Vent Height	Vent Weight
Friction Hinges		
Concealed Opening Vent		
1500mm Max	1500mm max	100 Kg max
700mm min	700mm min	

For complete details of maximum/ minimum vent sizes and weight restrictions, see the size limitation charts in section 4 of the fabrication manual.

### Insulated Panel

Maximum / Minimum Size Limits:  
3m x 1.4m maximum  
0.4m x 0.3m minimum

### Development

Our policy is to continually research the market for new and improved products. We must therefore retain the right to amend specifications without prior notice. It is recognised at Metal Technology that in some instances special sections may be required for particular projects. When this occurs it may be possible to produce special sections subject to there being sufficient quantity and adequate time.

