

Curtain Walling Systems



**Metal Technology**



Metal Technology, an acknowledged leader in window and door systems have designed Curtain Walling Systems for high rise and low rise applications. Their attractive and clean lines will enhance all types of office and commercial facades, demanded by modern building technology.





## System 17 High Rise Curtain Walling

▲ National Grid Centre, Oxfordshire



▲ Sainsbury, Northern Ireland

### Introduction

The basic suite of profiles comprises main sections measuring 50mm x 50mm, 75mm x 50mm, 100mm x 50mm, 125mm x 50mm, 150mm x 50mm and 230mm x 50mm with a pressure plate to which the uPVC insulator can be connected for double glazing options, allowing a totally thermally-broken facade.

A wide range of caps allows the designer to select external projections ranging from 15mm to 50mm. **Ridge sections are available for roofing applications.**

Around this suite can be designed limitless profiles to meet every possible application and thereby allow architects to achieve flexible designs.

Glazing options accommodate 6mm single glaze through to 28mm units directly into high rise curtain walling. All other Metal Technology window and door systems are directly compatible with the addition of purpose designed outer frames or closer channels.

As with all other Metal Technology products, manufacturing is to exacting standards giving economy with required strength, and many years of aesthetic, trouble-free operation.

Where curtain walling is required for low rise developments Metal Technology's System 8 Low Rise Curtain Walling should be considered.

### Performance

The curtain walling has been tested to provide Class III weather tightness as defined by BS6375 Pt. 1 and BS4873. This includes a full dynamic test as laid down by **CWCT** regulations. Full test report details are available on request.

### Construction

The Metal Technology High Rise Curtain Wall system is designed as a 'Stick' system, therefore mullions and transoms are transported to site as prepared components and the grid work is assembled onto the building in stick form.

Carefully designed fixing brackets allow the curtain walling to be fixed back to the structure easily and securely so that all loads are transferred back to the buildings main structural form.

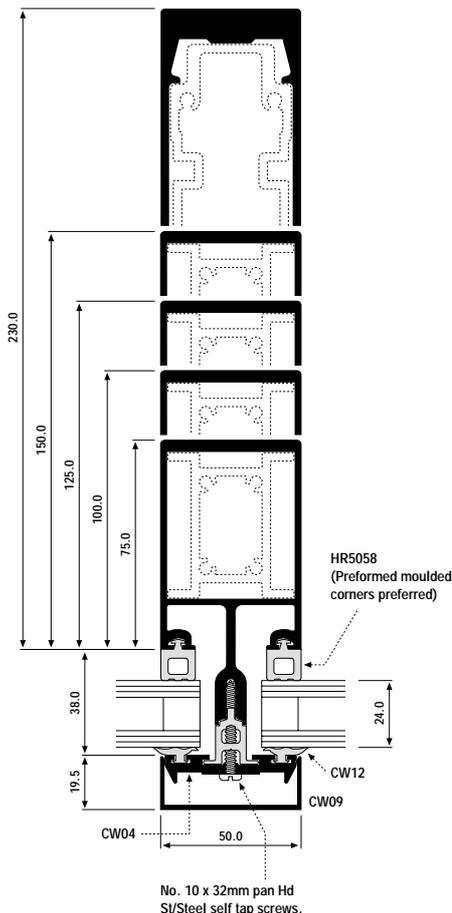
Expansion joints are allowed on every floor or every other floor to accommodate any building movement.

Mullions are generally cut square and jointed using specially designed jointing spigots. Transoms have notched ends to ensure an easily weather-proofed joint can be provided between mullion and transom. In common with modern thinking the system is mullion drained and provision is made to drain water out of the mullion at regular intervals.

Special care has been taken to design high performance gaskets which will ensure the long term weather-tightness of the system. Internal gaskets have the option of preformed corner joints or full picture frame to avoid any incontinuity in the internal seal, which is regarded as the critical seal.

External mullion and transom caps and pressure plates are exactly the same as those used on the low rise curtain walling allowing both systems to be used on the same development without affecting the aesthetics of the installation.

STANDARD MULLION DETAILS 6mm - 28mm GLAZING



◀ Cable Tel, Northern Ireland



## System 8 Low Rise Curtain Walling

▲ Mercedes-Benz Showroom, Bedford



▲ Consort Hotels, York

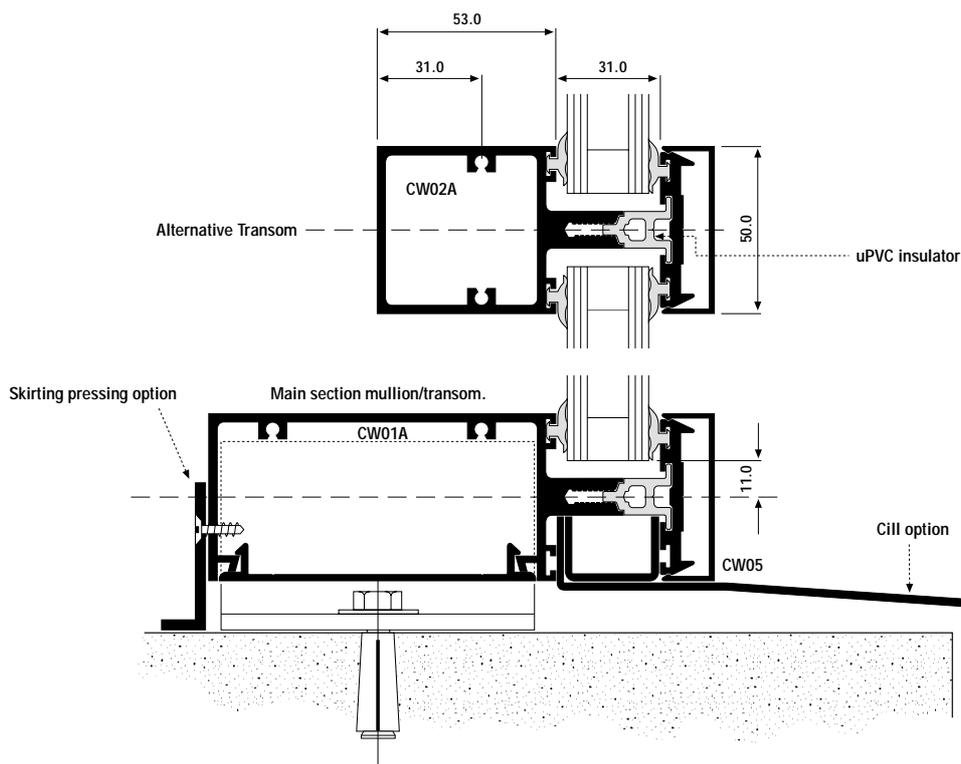
### Introduction

The basic suite of profiles comprises main sections measuring 143 x 50mm, 103mm x 50mm, 78mm x 50mm and 75mm x 50mm, an optional transom of 53mm x 50mm and a pressure plate to which the uPVC insulator can be connected for double glazing options, allowing a totally thermally-broken facade. A wide range of caps allows the designer to select external projections ranging from 15mm to 50mm. Around this suite can be designed limitless profiles to meet every possible application and thereby allow architects to achieve flexible designs. Glazing options accommodate 6mm glazing through to 24mm units directly into the low rise curtain walling. All other Metal Technology window and door systems are

directly compatible with the addition of purpose designed outer frames or closer channels. As with all other Metal Technology products, manufacturing is to exacting standards giving economy with required strength, and many years of aesthetic, trouble-free operation. Where curtain walling is required for medium and high rise developments Metal Technology's System 17 High Rise Curtain Walling should be considered.



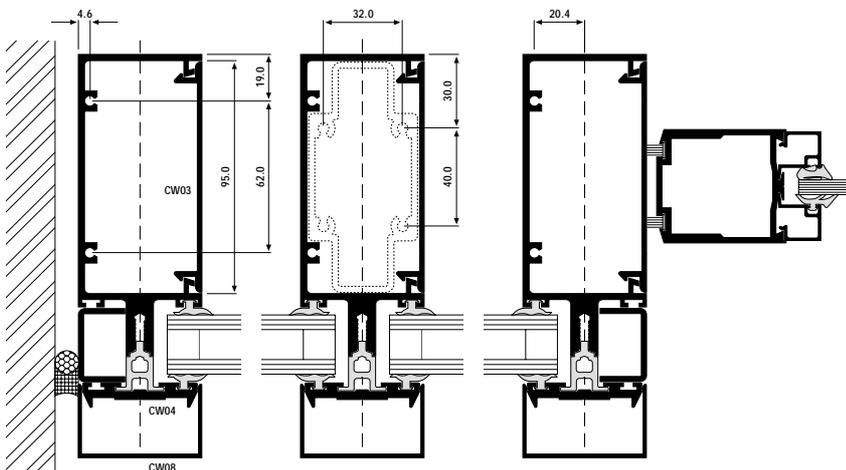
▲ Royal Bank of Scotland, Nottingham



## Design the Central Focus



▲ Leisure Centre, Dublin



### Construction

Frame members are square cut shaped and fixed securely to the frame by means of stainless steel screws driven into screw grooves in the section. Frame joints are sealed during construction against entry of water. Intermediate mullion and transom bars are similarly square cut and fitted. Extruded plastic glazing gaskets are provided to resist the ingress of water.

### Performance

The curtain walling has been tested to provide Class III weather tightness as defined by BS6375 pt.1 and BS4873.

## Quality through commitment

### Materials

Aluminium profiles are extruded from aluminium alloy 6063T6, T5, or T4 complying with the recommendations of BS1474. Sections can be thermally broken for use with double glazed units.

### Finishes

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

1. Anodised to BS1615 or BS3987
2. Liquid organic coated to BS4842
3. Powder organic coated to BS6496

### Glazing

See installation instructions for method of glazing.

### Installation

Detailed installation instructions are provided which should be strictly followed.

### Opening Vents

Details and specification for the opening vents can be found in the Metal Technology literature for Casement, Tilt Turn, Rebated Pivot, Top Swing and Dual Colour Windows.

### 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. These requirements should be discussed with Metal Technology at the earliest possible stage in the project.

### Product Range

**Curtain Walling Systems**  
**Roof Glazing**  
**Dual Colour Top Swing Window**  
**Dual Colour Tilt Turn Window**  
**Dual Colour Casement Window**  
**Dual Colour Commercial Doors**

**Thermal Architectural Subframe**  
**Thermal Casement Window**  
**Thermal Pivot Window**  
**Thermal Tilt Turn Window**  
**Thermal Top Swing Window**  
**Thermal Vertical Sliding Window**

**Ground Floor Treatments**  
**Commercial Entrance Doors**  
**Box and Bead System**  
**Patent Glazing System**  
**Secondary Glazing**  
**Residential and Patio Doors**



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