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## CONCEPT

**MC50 IS A HIGHLY FLEXIBLE STICK FAÇADE SYSTEM FOR CURTAIN WALLS**

### SYSTEM DESCRIPTION

- 50 mm system width
- Easy production and rapid installation onsite
- Highest structural stability achieved with lowest weight of profiles
- Wide variety of profiles
- Solutions for structural and cover assembly options
- Structural vents

### PROFILES DIMENSIONS

- Mullion & Transom Width: 50.0 mm
- Mullion & Transom Height: 17.0-24.00 mm - 278.00-285.00 mm



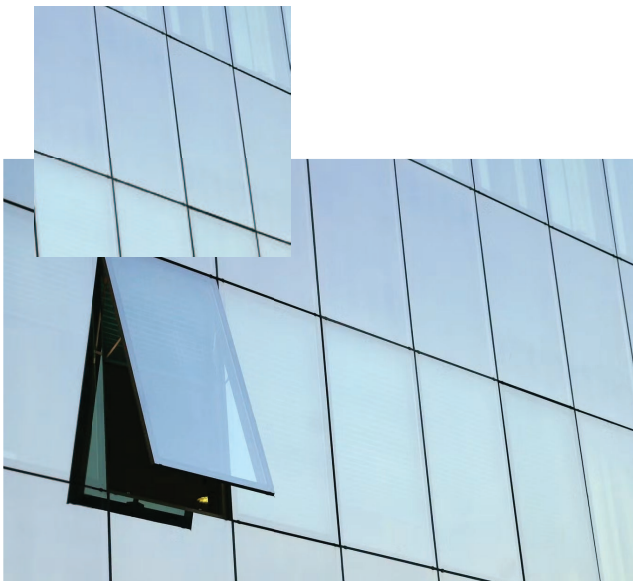
|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| VISIBLE WIDTH             | 50.0 mm                                                    |
| MULLION DEPTH             | 83.0 - 280.0 mm                                            |
| TRANSOM DEPTH             | 81.5 - 278.5 mm                                            |
| MAX. MULLION INERTIA      | 1913 cm <sup>4</sup> & 3216 cm <sup>4</sup> with Insertion |
| MAX. TRANSOM INERTIA      | 1420 cm <sup>4</sup> & 2901 cm <sup>4</sup> with Insertion |
| GLAZING OVERALL THICKNESS | UP TO 50.0 mm                                              |
| SEALING                   | EPDM GASKETS                                               |

TYPES OF CURTAIN WALL

Standard Curtain Walls: The main characteristic of the standard curtain wall is the fact that the glasses are held on the aluminum frame by using pressure plates, which are covered by decorative caps. A subgroup of standard curtain walls consists of ones that bear pressure plates along with decorative profiles in only one direction (instead of two), either horizontal or vertical. Such constructions are described by the term “Linear”.



Visible frame or Standard: On the outside, the glazing is divided by horizontal and vertical lines formed by aluminum profiles of 50mm width.



Structural: In this type of curtain walling glazing forms a planar surface and no aluminum is visible. Glazing surface is disrupted only by a joint of 20mm maximum width.

CERTIFICATION

Effective and proved airtightness and watertightness, due to internal drains on three levels, without discontinuity at the junction of mullions or transoms, carefully designed accessories and specially constructed supplementary profiles for sealing the perimeter of the façade.

All characteristics of the system are tested in **Housing and Building National Research Center - Egypt [HBRC]**

TEST RESULTS

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Air Leakage            | Calculated Result is 0.004 L/s.m <sup>2</sup> at Applied Pressure of 75 Pa          |
| Water Penetration      | No water leakage within 15 minutes at 140 Pa                                        |
| Structural Performance | Calculated Deflection is 3.75 mm at 1300 Pa<br>[ < 14.51 mm is the Allowable Limit] |