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ARAB ENGINEERING BUREAU

5 LIGHT METAL SUPPORT AND CLADDING SUPPORT

5.1 GENERAL

5.1.1 Scope

- 1 This Part, which provides reference of specification for metal light weight cladding and support framing, is to be used in conjunction with Part 4 of Section 25, Glazed Curtain Walling.
- 2 Related Parts and Sections are as follows:

This Section

Part 1 General
Part 2 Material Types and Finishes
Part 6 Workmanship

Section 1 General
Section 16 Structural Metalwork
Section 25 Glass and Glazing

5.1.2 References

- 1 The following standards referred to in this Section:

BS 5368.....Method of testing windows; (EN 1026 Windows and doors - Air permeability - Test method; EN 1027 Windows and doors - Water tightness - Test method; EN 12211 Windows and doors - Resistance to wind load - Test method).
BS 6375.....Performance of windows and doors; (BS 6375-1 Performance of windows and doors - Classification for weathertightness and guidance on selection and specification; BS 6375-2 Performance of windows and doors - Classification for operation and strength characteristics and guidance on selection and specification; BS 6375-3 Performance of windows and doors - Classification for additional performance)

5.2 PERFORMANCE REQUIREMENTS

5.2.1 General Requirements

- 1 Performance of individual and aggregate components of the Work of this section are to be designed, fabricated, assembled, transported, installed and protected so that no evidence of the following will be apparent, visually or measurable, when Work of this Section is subject to the pressures, loads, temperatures, and conditions specified.
 - (a) damage of any kind
 - (b) deflections as specified in the project specification
 - (c) panel flatness in excess of that specified herein
 - (d) offset from the true alignment between consecutive components in line in excess of 1.0 mm in 6 metres
 - (e) water Infiltration in accordance with BS 5368, Part 2
 - (f) air Infiltration in accordance with BS 5368, Part 3 and BS 6375
 - (g) colour variation in accordance with Part 2 of this Section
 - (h) oil canning: panel surfaces are to remain flat without noticeable (detectable) oil canning or surface deformation.

5.3 COMPONENTS

5.3.1 General Requirements

- 1 Components are to be manufactured from extruded or sheet aluminium, unless otherwise indicated. Substitutions for aluminium may be considered only for such components that are not finished or exposed to the weather.
- 2 Metal Panels:
 - (a) metal panels are to be fabricated from the specified alloy of aluminium. Thickness (gauge) of aluminium sheet shall be as specified in the project specifications
 - (b) metal panels are to comply with the profiles indicated on the Drawings
 - (c) panels are to be fabricated so that the grain of all panels is oriented in the same direction upon installation
 - (d) panel support construction to result in a panel visual flatness acceptable to the Engineer
 - (e) panels subject to impact and where indicated on the Drawings are to be reinforced with aluminium members or other suitable method as approved by the Engineer
 - (f) extruded aluminium stiffeners and other panel stiffening devices to be designed to prevent telegraphing or read-through of the stiffening device on the exposed face of the panel
 - (g) panel anchorage is to be designed to permit replacement without disturbing contiguous work. All panels shall be easily removable and replaceable for inspection of the seam or sub-roof system.

END OF PART