



THE BASIS OF ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

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WHAT IS AESS?

Architecturally Exposed Structural Steel (AESS) is steel that must meet two requirements: it must be designed to be structurally sufficient to support the primary needs of the structure of the building, complex or auxiliary structures, while at the same time being exposed to view and forming a significant part of the architectural language of the building. Any structural steel that is not concealed can therefore be considered architecturally exposed. The design, detailing and finish requirements of AESS will typically exceed that of standard structural steel, which is normally concealed by other materials or finishes. This naturally increases the time and cost in design, detail, fabrication, erection and finish AESS systems.

The integration of structural steel in architecturally exposed environments is a new approach to its design and detailing, in particular as not all AESS need be designed to be equally exposed. Detail, access, erection, maintenance and repairs will each have very different expectations of the role of the steel in the aesthetics of the building. Even within building typologies, different approaches to steel design are valid.

There is more to AESS. Architecturally exposed structural steel can also mean those systems that are exposed to view in order to provide an aesthetic statement for the building, regardless of their structural role. The design, detailing and fabrication of the structural steel may contribute to an overall concept.

Architecturally Exposed Structural Steel Specifications Connections Details

JR Anderson



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