

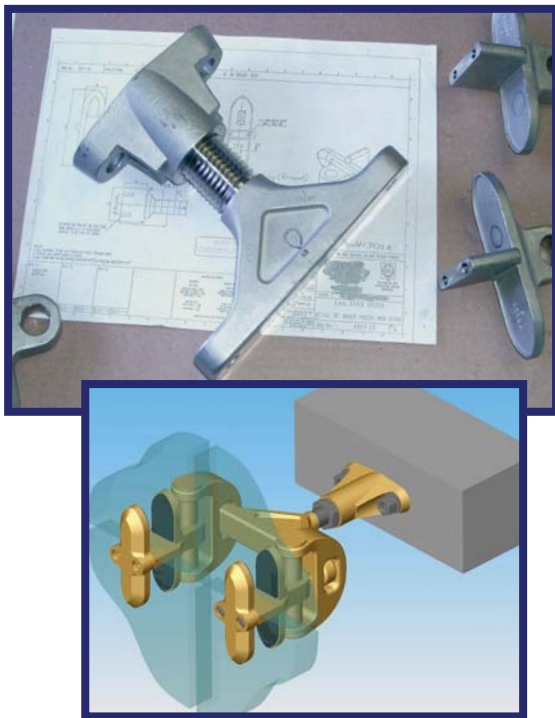
SYSTEMSTAX

INNOVATION

The launch of **SYSTEMSTAX** sees the culmination of a design and development programme to produce a frameless glazing solution to give the designer maximum façade transparency without the necessity to drill holes through the glass. This allows the use of standard double glazed units with glazing specifications and products from any glass manufacturer.



The concept of the system is the 'stacking' of one glass unit on top of another with all the dead load of the glass and fittings being transferred through the glass itself to the lowest level. Not only are economies achieved in not drilling the glass, but the building designer and engineer are at liberty to reduce the dead load carrying capacity of the building frame, as only the wind load forces applied through the cladding have to be accommodated.



ENGINEERING

Each component within **SYSTEMSTAX** has been engineered to a level of load capacity such that it can be confidently specified for major conurbations in the UK, without the need for extensive project specific calculations and engineering.

Not only does this give the confidence that the engineering is adequate for most UK applications, but allows the cost benefits of the bulk manufacture of the castings and fittings to be enjoyed across many projects. The castings are produced by a lost wax process in accordance with BS3100 and BS6615:CT9 standards by an ISO accredited specialist and can be finished and polished to project requirements.

CAPABILITIES

SYSTEMSTAX has been developed to offer the specifier maximum flexibility, and using double glazed units comprising two 12mm glasses, can accommodate large glass sizes up to 3.8m x 1.5m spanning between the floors of the building, and up to five storeys in height.

The 'C' casting has been developed to allow a host structure installation tolerance of +/- 10 mm in level, and a vertical differential movement between the structure and the glazing fitting, which will be static, of up to a further +/- 20mm to be accommodated. This allows the slabs of the building to be light weight in design, as excessive live load deflection of the floors can be accommodated with **SYSTEMSTAX**.

continued over »

The mounting of the glazing clamp to the 'C' casting allows rotation on a stainless steel pin, in addition to vertical slide, and as such any faceted arrangement of the glazing can easily be accommodated at no additional cost. Curved glass panels can also be accommodated with the same standard clamp bracket detail. The standard 'T' casting is threaded into the root fixing enabling a half rotation to re-position the glazing face by increments of 2mm. This fitting allows deviations in the position of the face of the host structure of up to 15mm to be accommodated.



SUPPORT SYSTEMS

At spans of up to 3.8m, the double glazed unit requires support to limit the deflection of the glass unit to acceptable levels. A discrete clamp is incorporated within the design for this purpose, which can be supported by a number of means. A tapering glass fin, stainless steel tube, painted mild steel tube, laminated timber or stainless steel rod rigging supports can all be incorporated into the design to accommodate the windload forces.

INSTALLATION

With detailed setting out undertaken by EAG's site engineers, the positioning and fixing of the glazing brackets is key to a successful installation. Following this, with pane areas often over 8m², the closing-in of the building is very rapid, presenting a weather proof shell for the following trades at the earliest possible opportunity. Once the glass is clamped in its final location the 18mm joint between each double glazed unit is pointed with structural silicone sealant both inside and out, adding further to the integrity of the façade as a whole.

English Architectural Glazing
Chiswick Avenue, Mildenhall, Suffolk, England IP28 7AY
Telephone: (01638) 510000 Facsimile: (01638) 510400
Email: info@eag.uk.com www.eag.uk.com

