



TROX[®] TECHNIK
Project Reference



Project: GLA Building

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Location:	London
Product:	Recessed Multi-Service Chilled Beam Recessed Chilled Beams
Quantity:	2,000 metres
Value:	775,000
Manufacturing Programme:	2001



This unique 7 floor beehive shaped landmark building, located on the south bank of the Thames adjacent to Tower Bridge, houses the Mayor of London and the new Greater London Council.

The passive Multi-Service Recessed Beam design was set out by the Architects, Foster and Partners, and Services Consultants, Arup. Mace appointed Trox UK after a competitive tender bid to design, develop, project manage, and supply approximately 2,000 metres of Multi-Service Beams and 1,400 metres of recessed beams.



Following design approval, samples were manufactured and installed in an off-site building module mock up. Following this beams were built and installed in the test facility at Trox in Thetford for thermal, lighting and performance testing.

The beam was designed to be installed in a plaster ceiling and each module incorporates the supply air, separate room return air section, a light module and other accessories, such as sprinklers, lights, PIR and smoke sensors, positioned at the ends of each multi service unit. The lights were supplied free issue to Trox for fitting directly into the beam borders, therefore reducing costs. The beam modules were generally 2,250mm long butted together on site to give linear runs. Individual mitred infill sections were provided at the end of each run to fill the gap between the end of the beams and the wall.

The use of larger cathedral shaped holes allowed the beam to operate efficiently, and the internal components of the beam to be visible to meet the architect's requirements.