Schöck
Innovative Building Solutions

Canada Water Library, Rotherhithe, London Docklands

Schöck Isokorb® type KS 14

References

Schöck lends itself perfectly to Canada Water Library

The flagship of the regeneration programme at Rotherhithe, in London Docklands, is surely the intriguing new Canada Water Library. The £14m building resembles an inverted pyramid and is clad in aluminium sheets that are anodised in a light bronze with sequined perforations, giving it a striking visual effect.

Thermal efficiency and energy saving construction issues are central to the design, and the avoidance of thermal bridging is a major consideration, as the resultant heat and energy loss are only two of the consequences. Condensation and mould growth can occur as well, which may lead to potential health and respiratory problems. So with balconies on the south side of the building connected to the edge of the internal reinforced concrete slab, and a series of platforms on both the south and east sides, preventing the possibility of thermal bridging at these connectivity points is critical.

The solution is the type KS14 Isokorb® from Schöck Ltd, which is used to connect cantilevered steel components to the reinforced concrete. This latest generation type KS14 has around 20 percent more load-bearing capacity in the bending moment. With the result that even for conventional construction, the number of components required on site can be reduced, saving on expensive structural steel and valuable installation time. In addition to the higher load-bearing capacity, the insulation performance has also been improved and the thermal conductivity of the insulation body is now 0.031 W/(mK) from 0.035 W/(mK).

As market leader and a specialist in thermal break technology, Schöck is able to offer an unrivalled partnering capability in all aspects of design and engineering support. In addition, the entire product range – which allows connectivity between concrete-to-concrete, concrete-to-steel and steel-to-steel – also meets full compliance with all relevant UK building regulations and provides BBA Certification and LABC Registration

The Isokorb® range comfortably exceeds the requirements of the UK regulation (BRE IP1/06) which stipulates that the temperature factor used to indicate condensation risk (f_{RSI}), must be greater than, or equal to, 0.75 for dwellings, residential buildings and public buildings.

A leading European supplier

Schöck has grown to become Europe's leading supplier of innovative structural load bearing insulation products. Its headquarters are at Baden-Baden in southern Germany and there are subsidiary companies in Great Britain, France, Austria, Switzerland, the Netherlands, Belgium, Poland, Italy and Hungary. Sales teams and partners operate in many other European countries and also Canada and the Middle East. Schöck is committed to providing the highest level of technical back up and comprehensive customer service to the construction industry.

Details	
Architect:	CZWG Architects LLP
Structural Engineers:	Adams Kara Taylor
Construction/Programme:	Profile Construction Consultants
Schöck products:	Schöck Isokorb® KS 14

For further information about services from Schöck, or to request a free copy of the Specifiers Guide and / or Technical Guide; contact Schöck Ltd on:
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