

SMART BEAM by Hadi Teherani



Multi-service active chilled beam
Freely suspended installation
Aesthetic design
Linear light fittings
Project bespoke multi-service integration

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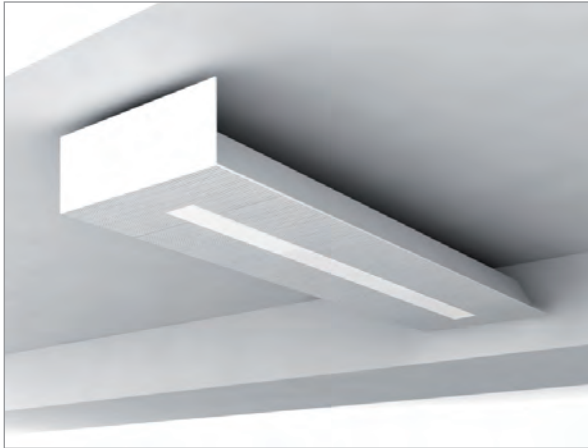


Hadi Teherani

„Our aim was to integrate the air conditioning element into the ceiling design, forming an aesthetic unity with the room without appearing to be an additional item. Whilst the beam is suspended from the ceiling, due to the clever aesthetic design, it does not stand out but effectively merges, almost invisibly, into the overall ceiling design. It combines all the technology that would otherwise be spread throughout the ceiling into a single unit: diffusers, lighting, sprinkler system, loudspeakers, and so on. This results in a ceiling that is cleaner and simpler and turns the air conditioning terminal unit into an aesthetic design element in the room.“

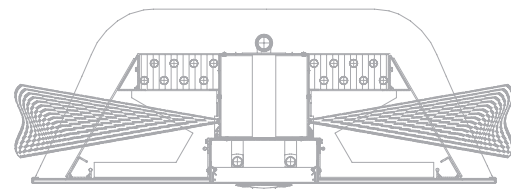
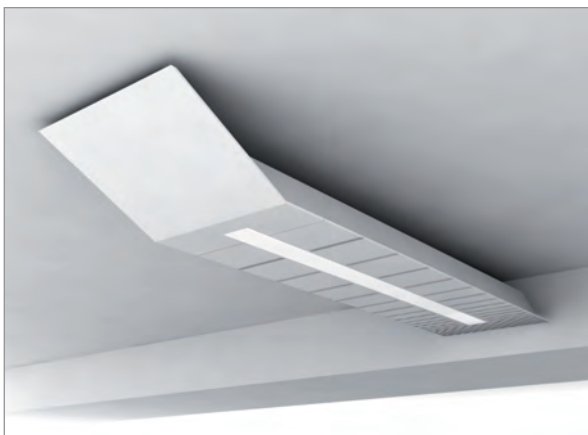


Teherani



The SMART BEAM consists of three parts: the casing cover for the air and water connections, which are usually mounted in a wall bulkhead, the central functional part and the face plate. These three parts can be combined in various layouts. Depending on the building requirements, different functions can be integrated in addition to the basic air conditioning element, for example, lighting, sprinklers, loudspeakers, motion sensors, smoke detectors and emergency lighting. All in all an unadulterated holistic design.

In the case of the type DID-SB multi-functional ceiling beam from TROX, room air is induced through the two heat exchangers located above the primary air chamber. This induced air is heated or cooled in the heat exchangers, mixed with the primary air, then the total supply air discharge enters the room horizontally due to the Coanda effect, this guarantees comfort and freedom from drafts. Innovative strip lighting has been integrated into the beam which uses highly effective microprism optics (MPO) and guarantees an even lighting of the room.



Dimensions: 5000 x 750 x 224 mm.

Active length: 3000 mm.

The active and overall length can be changed to meet project requirements.

Technical data:

Primary air 30 - 120 m³/h

Max. cooling capacity 1.500 W

Temperatures:

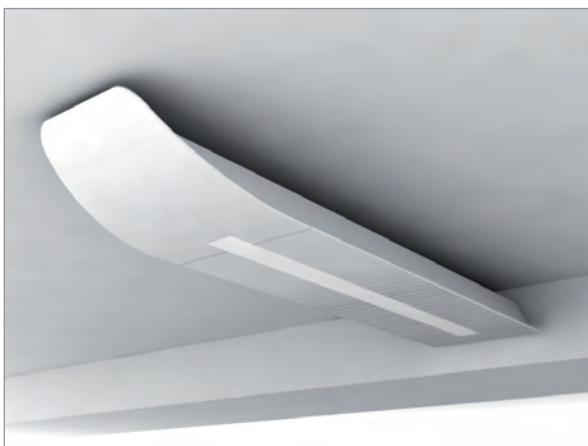
Room 26°C

Primary air 16°C

Water 16/19°C

Acoustics:

Sound pressure level 35 dB(A)





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