SKYBEAM

Date
2015-2016

Client
TROX GmbH

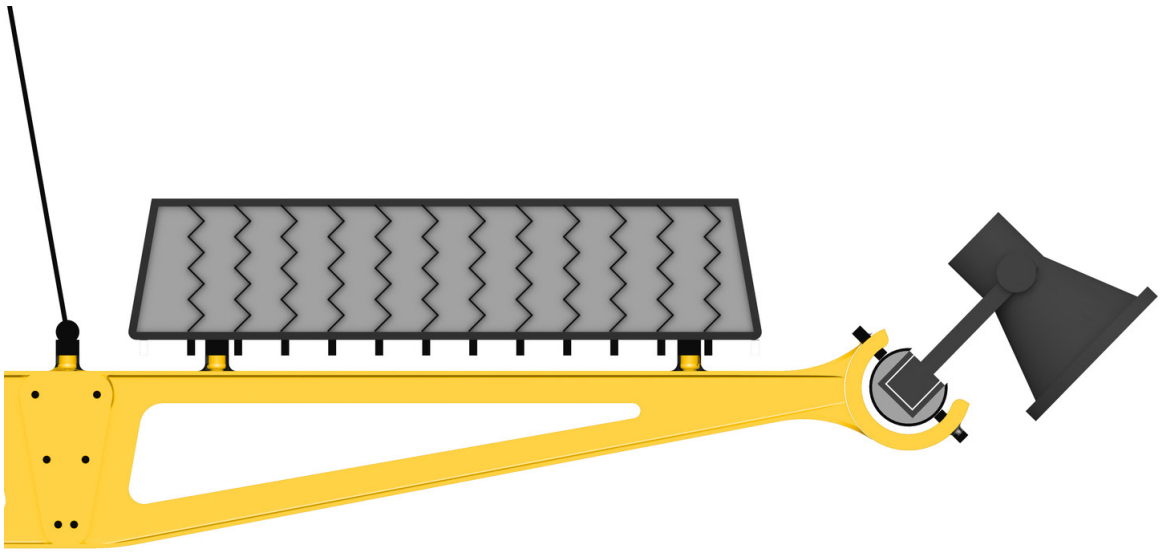
Location
N/A

Construction cost
Confidential

Measurements
1.5 x 1.5m

Awards

2017
German Design Award – Energy Category, Excellent Product Design



SKYBEAM™ is a multi-service chilled beam platform that integrates outstanding design with an impressive range of adaptable features. It was conceived for use in a variety of building workspaces: offices, schools, airports, factories, and universities. The design has been driven by finding efficiencies and solutions in space-planning, servicing, fabrication, and installation metrics.

SKYBEAM™ is a ceiling-suspended service platform which delivers a chiller unit (active/passive), acoustic absorption, illumination, sound, wayfinding, and life-safety services. These sit on a base chassis that allows for various configurations from the moment of its design concept, during its operation, with resilience for future updates. The central idea of SKYBEAM™ is inspired by that of a vehicle chassis which allows for maximised permutations.

These customisations include: colour and finish, length, panel insert, lighting options, all of which can be easily installed, maintained, removed, and upgraded. By purposefully electing to avoid the industry norms of integrating components into the 'bodywork', SKYBEAM™ allows for flexibility for both the designer and client to select and configure lighting systems and layouts to suit their needs. The SKYBEAM™'s chassis has universal adapter 'hands' that allow for: different systems to plug in and play; lighting tracks, linear LED systems, directional and up-lighting variants. The open-source approach gives a choice to the specifier, designer, client, and end-user.

The 'open-top' chassis approach means that the installer and maintainer have immediate and easy system access. It also allows for factory-based assembly, tested and packaged for simple installation, thus reducing the lengthy installation which would otherwise be presented by traditional ceiling systems. This is a building programme friendly approach where working at height is minimised.

The pared-back and synthesised design approach enable an indirect decluttering of the ceiling-scape. Traditional ceilings are typically driven by old habits, with a ceiling void commandeering useable volume. By stripping back unnecessary bodywork and metal-framed systems, it frees up volume giving the user more visual 'space,' more daylight and generally improved sense of wellness. Combined with full-height glazing, this can create sensational spaces, with improved floor to ceiling heights. SKYBEAM™ has been developed directly with high-quality engineering and specialist inputs.

By only using the essential material, all elements are active, thus minimising assembly times. This provides obvious benefits in terms of cost, weight, transportation, and therefore is inherently a sustainable design approach. The lifetime benefits of displacement ventilation systems featuring passive chilling are well documented over conventional FCU systems that have more elements with shorter, service-life characteristics.