

Designers choose chilled beams on 5 star energy building



Fläkt Woods has been awarded a contract for the supply of 689 chilled beams for one of Australia's most prestigious, energy conscious new buildings, Adelaide's City Central Redevelopment, Tower 2.

■ FACTS

Customer:

Adelaide's City Central
Redevelopment, Tower 2

Need:

Maximum energy saving initiatives,
i.e water based cooling systems.

Solution:

QPSA passive beams which are
extremely flexible and easily
adaptable to meet most requirements.



Fläkt Woods offer the best environmental friendly solution

Fläkt Woods will supply 689 chilled beams for one of Australia's most prestigious, energy conscious new buildings.

Designed to achieve Australia's 5 Star Green Rating, as well as a 5 Star Energy Rating, the new building will be amongst the most advanced buildings in Australia, capturing best practice from around the world and fully integrating Green Building principles into the design.



The beams that are being supplied are double width QPSA passive beams, which are powerful high capacity beams (570 mm wide) that form part of Fläkt Wood's Flexicool® range of chilled beams.

Maximum energy saving

A 5 Star rating requires a building to have the maximum energy saving initiatives. This led designers to specify water based cooling systems, as the energy needed to provide the cooling requirement is less than cooling through the air. Indoor air quality was another fundamental criterion, and it is recognised that chilled beams lead to better working environments.

QPSA a natural choice

QPSA passive beams easily answered these requirements. They are also extremely flexible and easily adaptable to meet most requirements. They cool a room by means of convection, so they have no supply air, but are based on the principle that circulating air is caused to flow down through the cooling coil by

natural convection circulation. The air is supplied to the room via a separate supply air system.

Low operation costs

Veikko Kärner, Fläkt Wood's Sales & Marketing Manager in Australia:

"Our QPSA chilled beams are the right choice for the environment, and because they have low water pressure drop, they also have low operation costs. This contract demanded a flexible choice and our beams are ideally suited as they can be adjusted in position in the relevant room as required, which makes installation easy as you do not need to choose which room a chilled beam is to be used in before hand".

Located at 121-129 King William Street the new building will be of a similar height to the existing building that will be demolished to the ground floor level, with the basement being retained. The new building will provide approximately 13,000 sq metres of office space over 12 levels together with ground floor retail areas.

Passive Chilled Beams

The passive chilled beams are either ceiling installed or free space installed without ceiling. The beams are available in lengths 1.2-4.2 m at 60 cm intervals. In installations with passive chilled beams separate diffusers distribute the supply air.

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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