

RP1001

AIR HANDLING SOLUTIONS, INTEGRATION APPROACHES AND BUILDING DESIGN CONSIDERATIONS FOR PVT ROOFING

Snapshot

The aim of this research is to identify the best suited building typologies for PV-T systems and to determine the air transport solutions which provide the greatest benefit at the minimum running cost and energy consumption for the PV/T roofing in various climates of Australia. A major project aim is integrate a PVT air system with the heating ventilation and air conditioning (HVAC) system of two real buildings.

Outcome

The outcome of this study will support the commercial implementation of PVT air systems in buildings in Australia either as stand alone systems, or as a supplement to conventional HVAC systems. Given that the project will be specific to PVT in Australia and be premised on the thermal constraints and design of the BlueScope Steel PVT system, BlueScope Steel will lead utilisation of the project IP.

Integrated Building Systems

1. Harnessing the Australian sun

Project Leader

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Partners

BlueScope; UNSW; UniSA

PROJECT START DATE: FEB-13

PROJECT DURATION: 3 YEARS

