



**TROX<sup>®</sup> TECHNİK**  
The art of handling air

# TROX UK

## Laboratory 3



## TROX Test Laboratory



### Laboratory 3

Length = 5.5m

Width = 4.8m

Height = 4.9m

- Floor - Kingspan floor tiles (600 x 600 x 30mm thick with galvanised finish) create 350mm void that can be used to duct individual floor outlets or the whole floor area can be pressurised, (plenum not yet created)
- Walls - One 5.5m long wall is built from Perspex and if incorporated into the module it creates a viewing area. One 5.5m long wall is built from chilled ceiling panels and can be used to simulate glazing in the module with temperature range about 10 to 40°C. Module walls are usually constructed from Nilflam (40mm thick lightweight partition boards)
- Ceiling - 12mm plywood, test cell ceilings (usually Nilflam) can be suspended from the plywood, heavier constructions are suspended from the beams above the plywood

Within the main cell dimensions any room module can be created with any air / water based product.

### Simulated heat Loads

Glazing is represented by hot and cold water mixing circuit through chilled ceiling elements. Solar gain can be also represented by low density heating mats these also simulate small power gains.

Person heat load is represented by thermal dummies (Din Men).

Computer load can be represented using metal boxes with light bulbs and fans.

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