



3M™ Prestige Sun Control Film Trial Summary

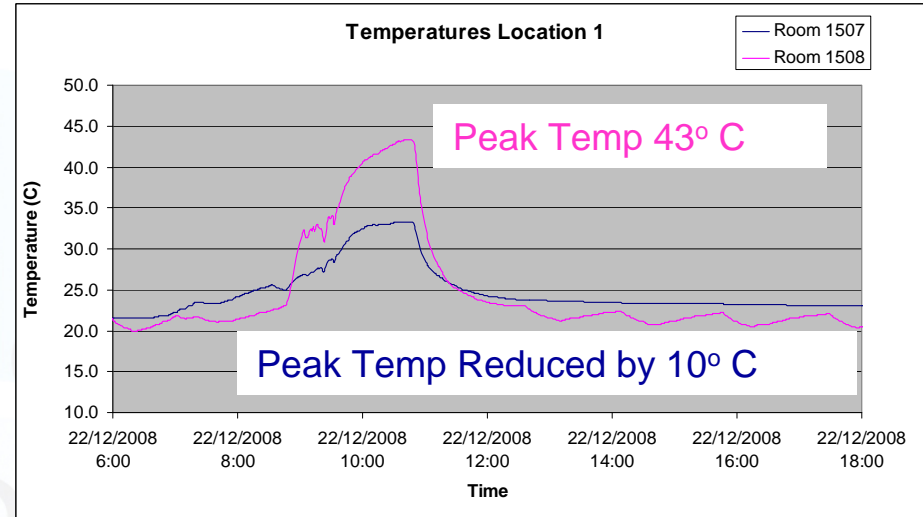
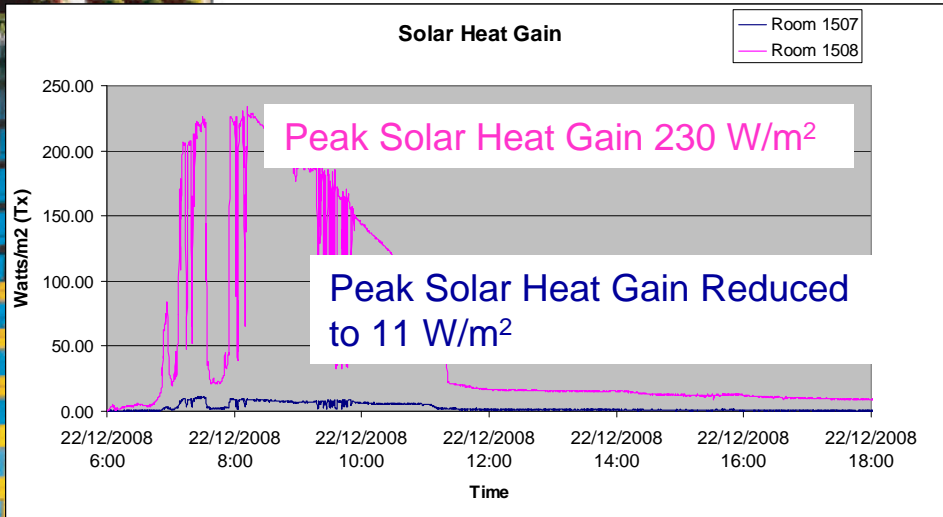
- 3M Prestige PR70 was applied to one room with the 2nd left unfilmed.
- Glass was Clear 10mm TTG (Each room had 2.4 Sq. m ;1300mm x 930mm x 2 panels).
- Data loggers were installed in identical locations in both rooms to monitor Temperature and Solar Heat Gain.
- AC thermostats were set to the same level in each room.
- Rooms were left unoccupied over the duration of the trial from 18th Dec to 26th Dec 2008.
- The Following data was logged on 22nd Dec 2008 between the hours of 6am and 6pm (additional data from the Dec 21st also supplied).

Solar Heat Gain and Temperature Location 1

All Graph's Film Use

 = No Film

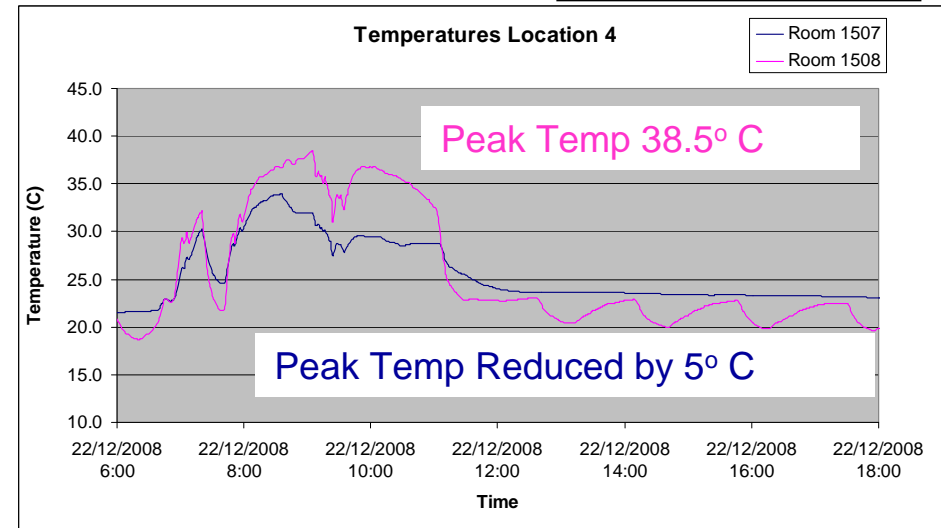
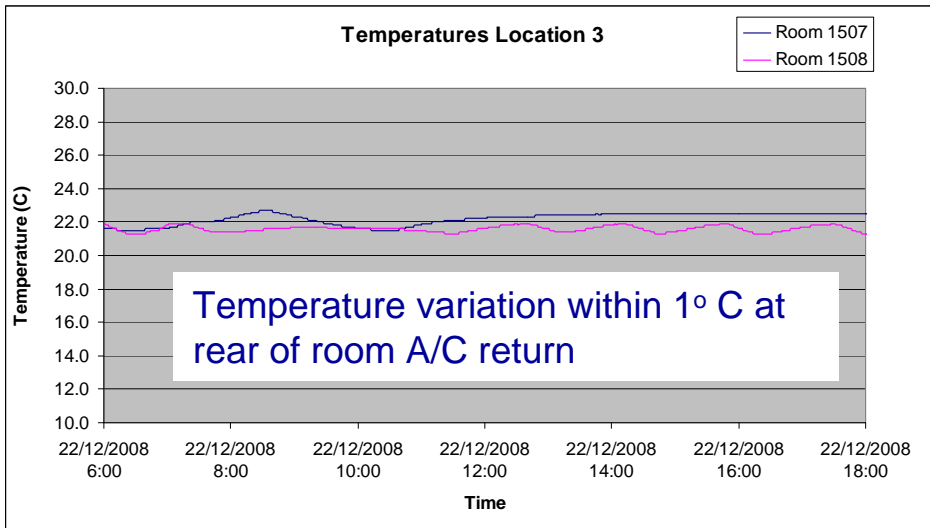
 = With PR70



Window Films

Temperature Location 3 & 4

All Graph's Film Use
/ = No Film
/ = With PR70

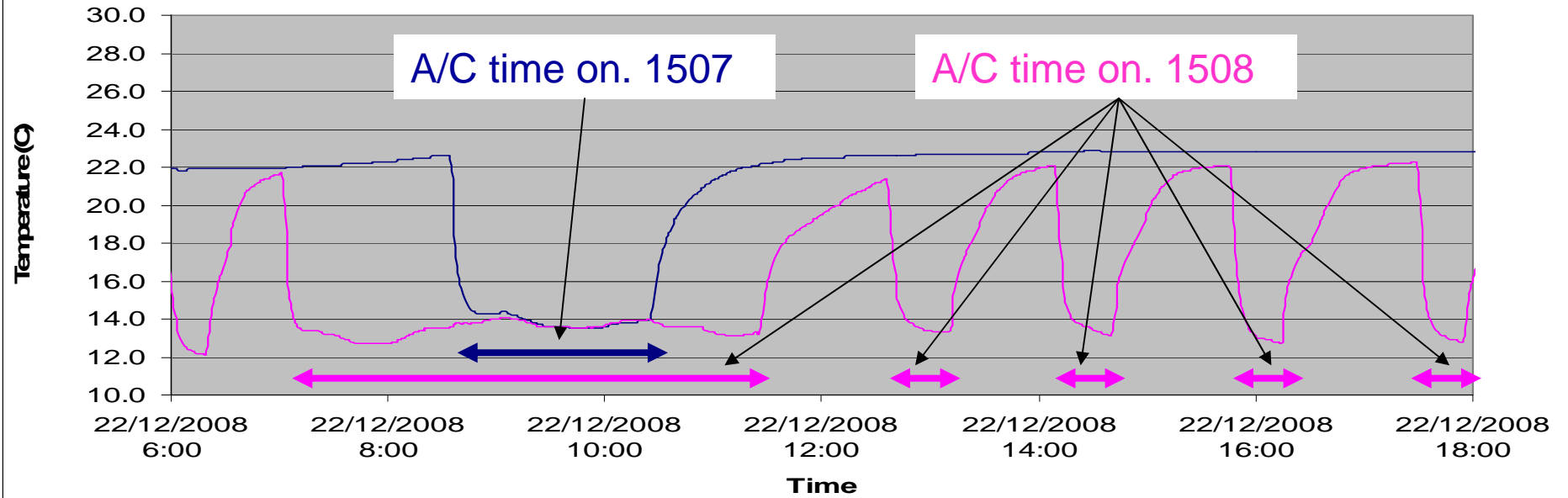


A/C Outlet Air temp

All Graph's Film Use
/ = No Film
/ = With PR70

Temperatures Location 2

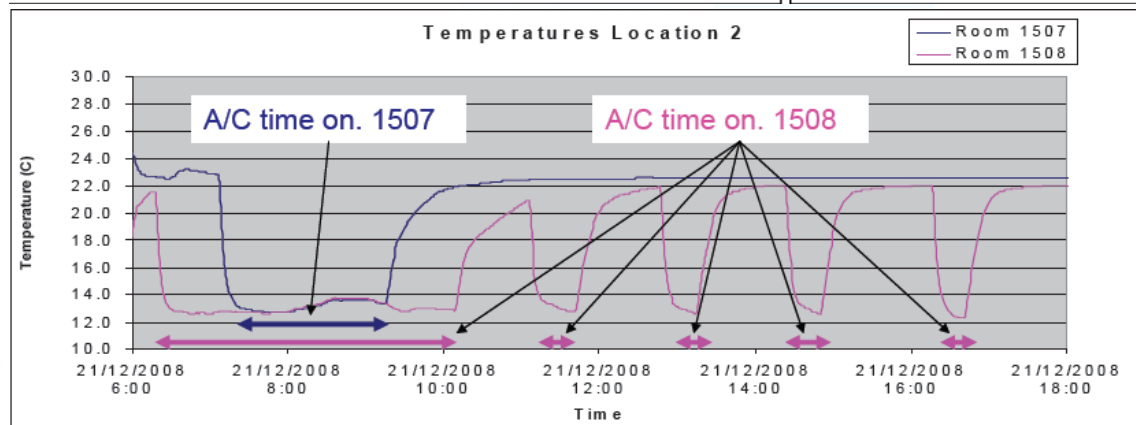
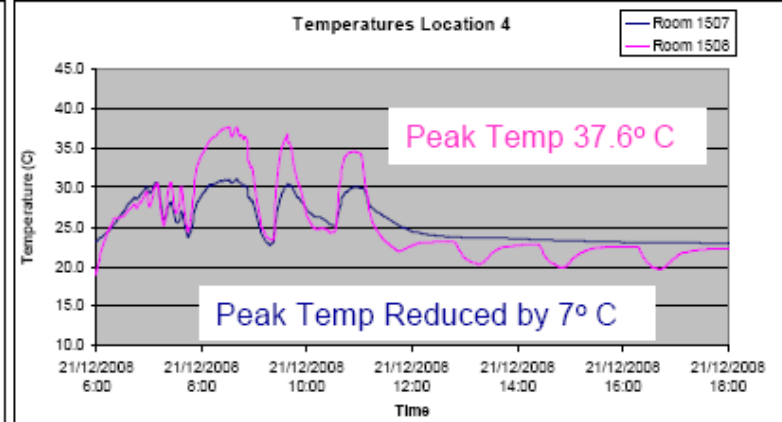
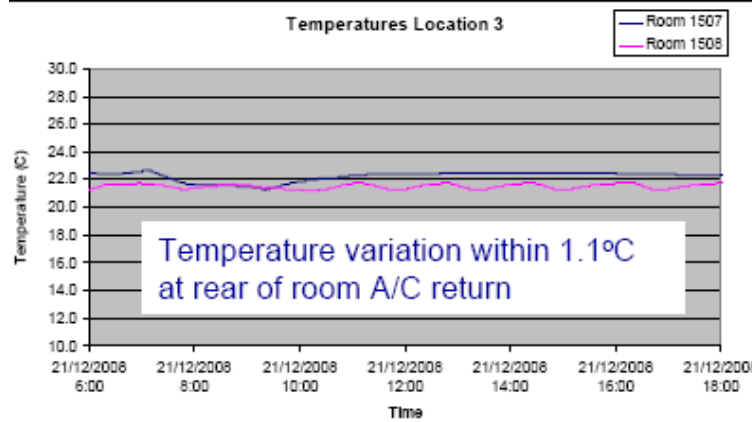
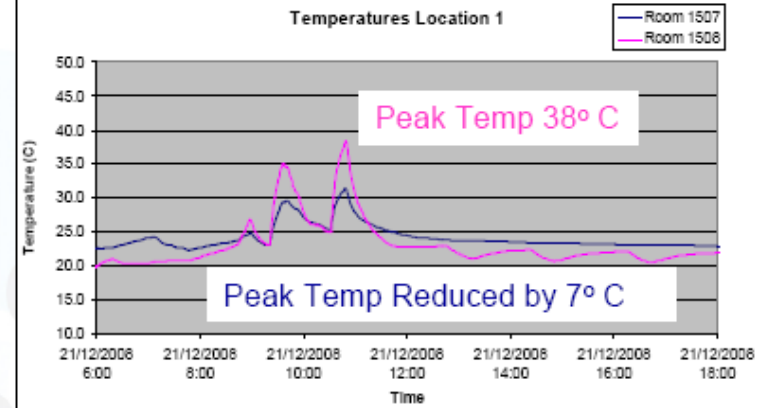
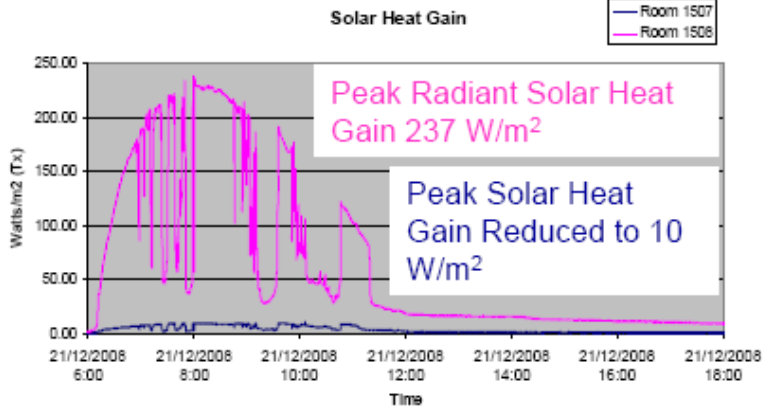
— Room 1507
— Room 1508



- This graph indicates A/C activity 6am to 6pm on 22nd Dec 2008
- A/C active for **7hrs** in room 1508 **without film**
- A/C active for **2hrs** in room 1507 **with film**



Other Days Statistics - Similar Pattern





PR70 Trial Summary

- Greater Thermal Comfort for occupants
 - Peak temperature reduction of up to 10°C
 - more ‘even’ room temperatures.
- Reduction in Energy usage
 - A/C usage reduction (dependant on HVAC type, Glass type, façade orientation, weather etc.)
- Analog thermostats were equal in both rooms, some variation & drift could be seen.
- Energy Savings Discussion
 - \$ Savings
 - CO² Reduction
- Please feel free to contact 3M on TEL;136 136

3M Prestige50 Solar Control Film

Study Conducted at KFC Preston, 6am to 9pm 17th Feb 2009

