



Residential Water Mist in the UK

Presented by:

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Next Gen Fire Suppression Products



Residential Water Mist

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Residential Water Mist Performance

- Building regulations ABD and BS9991
- Standards BS 8458, EN 14972 -1 & 17
- Fire Testing
- Residential water mist statistics
- Future of residential water mist

Next Gen Fire Suppression Products



Building Regulations and Standards

- Building Standards Technical Handbook (Scotland)
- Approved Document B 1 : Dwellings (Wales)
- Approved Document B 1 : Dwellings (England)
- BS 9991 - Fire safety in the design, management and use of residential buildings. Code of practice.
- Standards BS 8458, EN 14972 -1 & 17

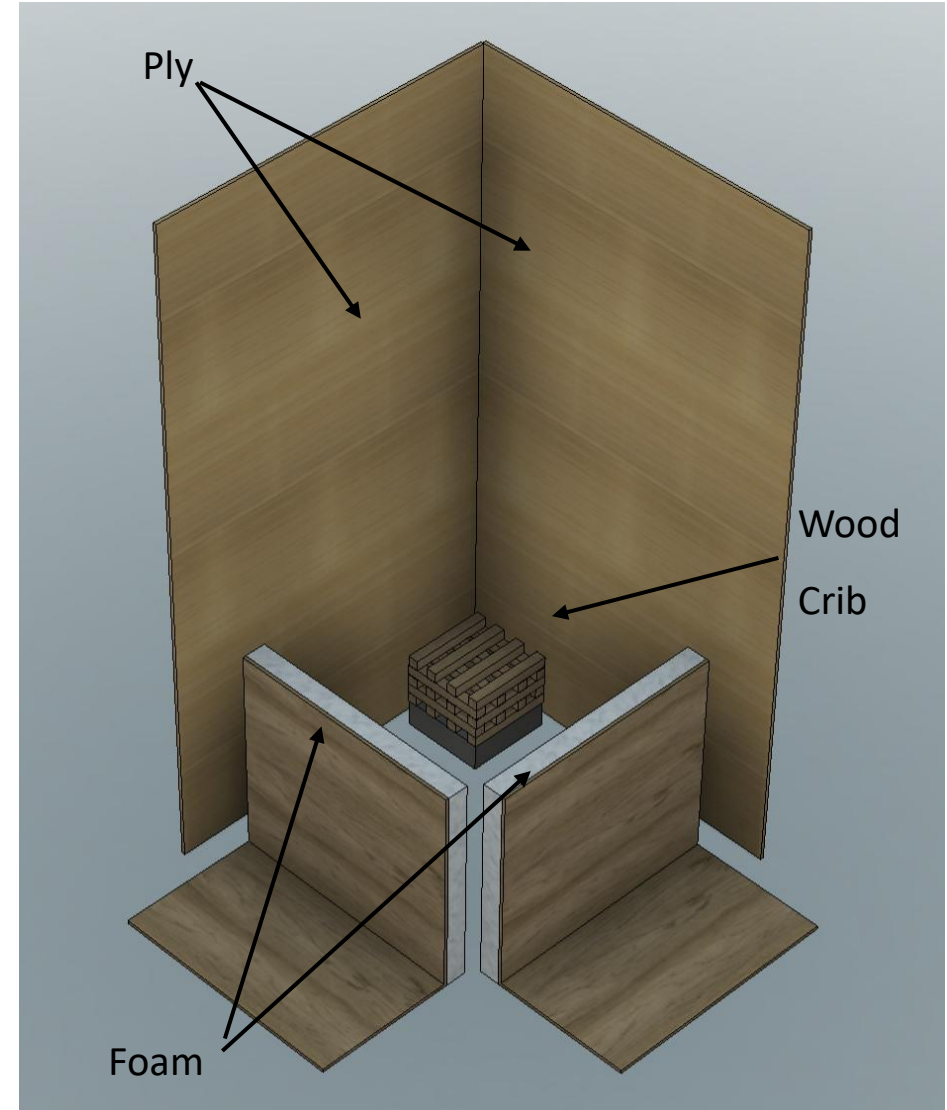


Traditional Sprinkler Testing

BS EN 12259-14

Pass / Fail Temperature
316°C max

ico



Water Mist Testing

BS EN 14972-17

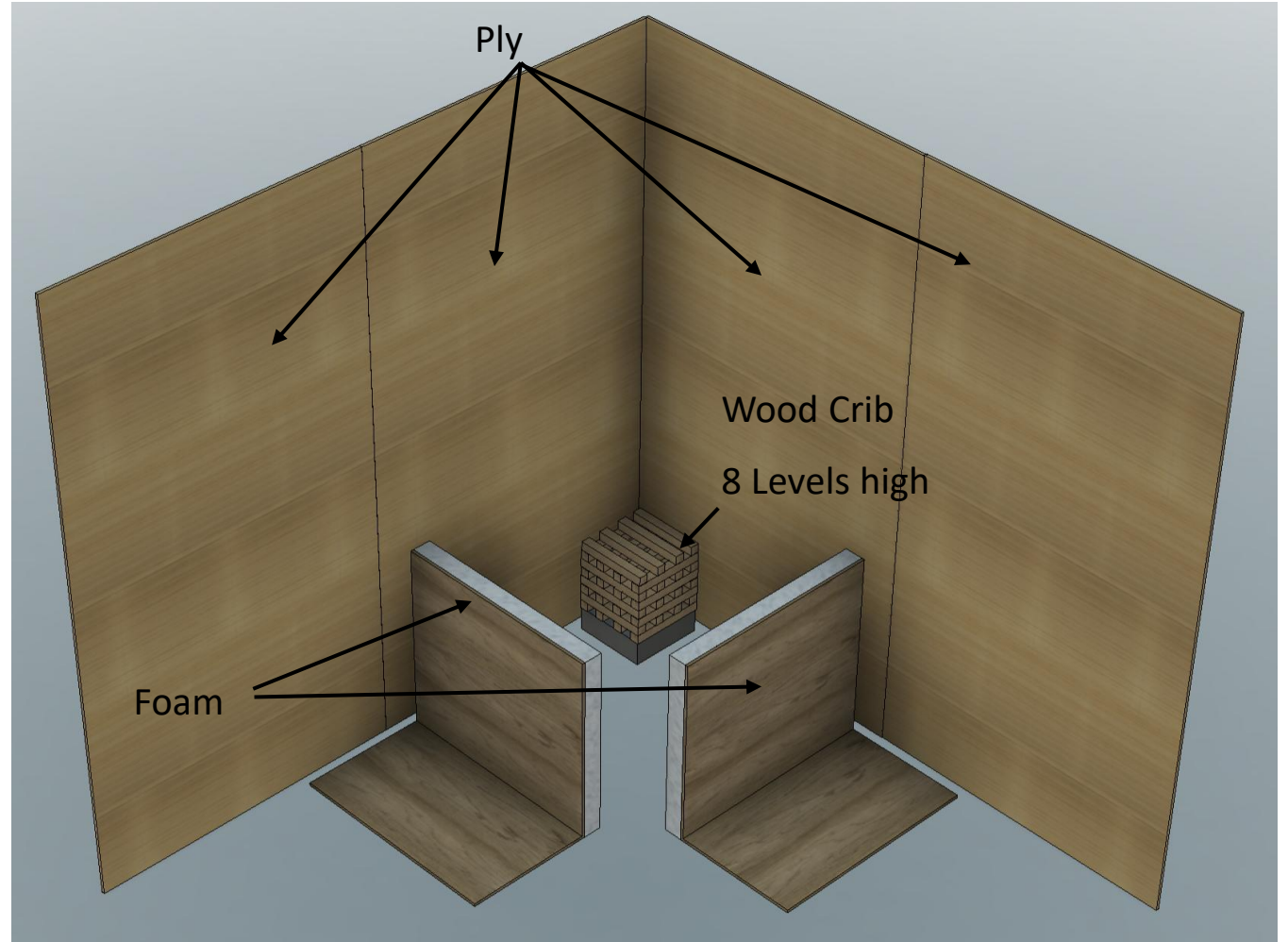


Pass / Fail Temperature 320°C

Wood Crib 8 levels high

Foam is 50mm away from the walls

Twice the amount of ply on the walls



Additional Water Mist Tests



Test 1



Corner Test

Test 2



In Between
Test

Test 3



Underneath
Test

Test 4



Ventilated
room Test

Test 5

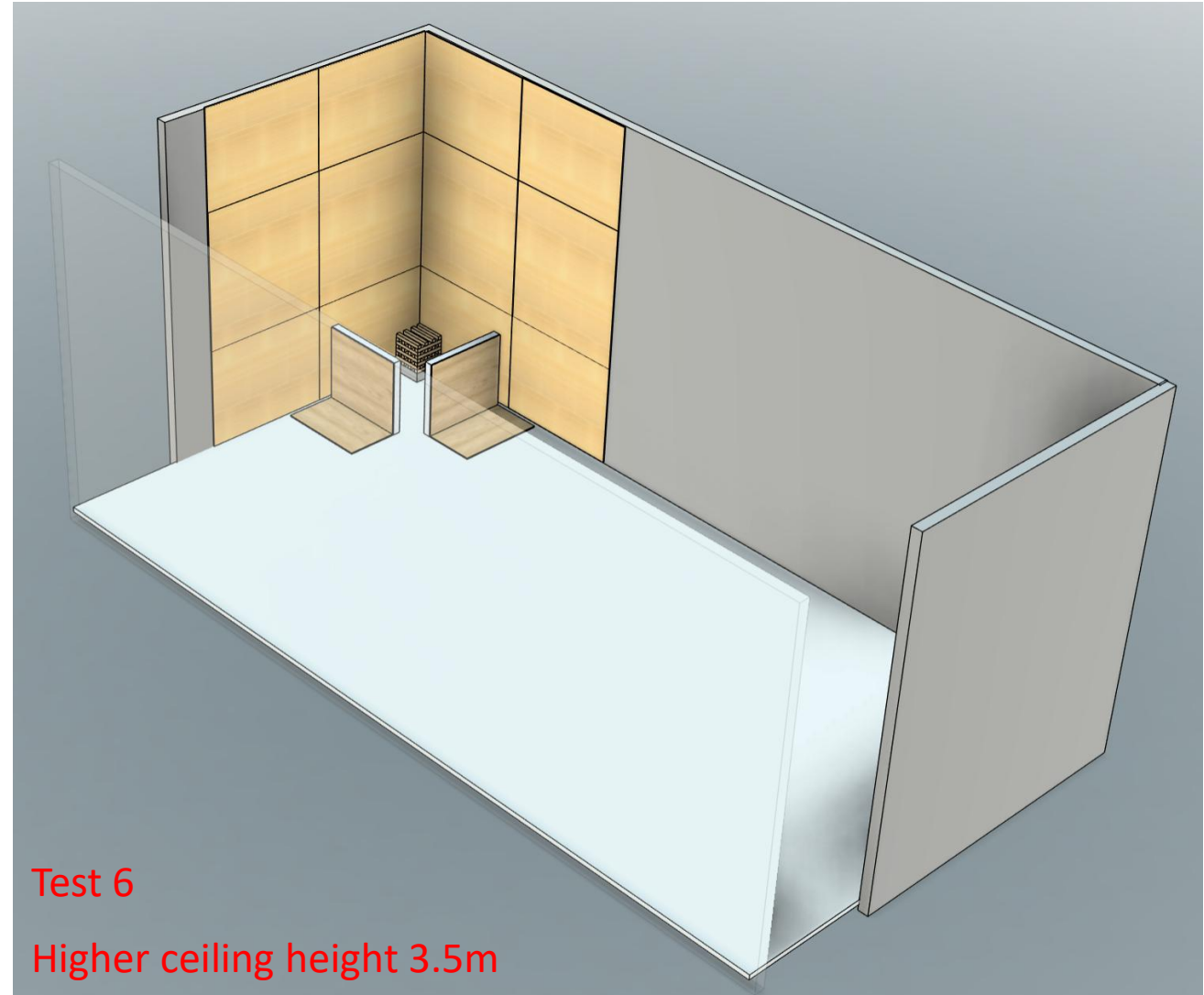
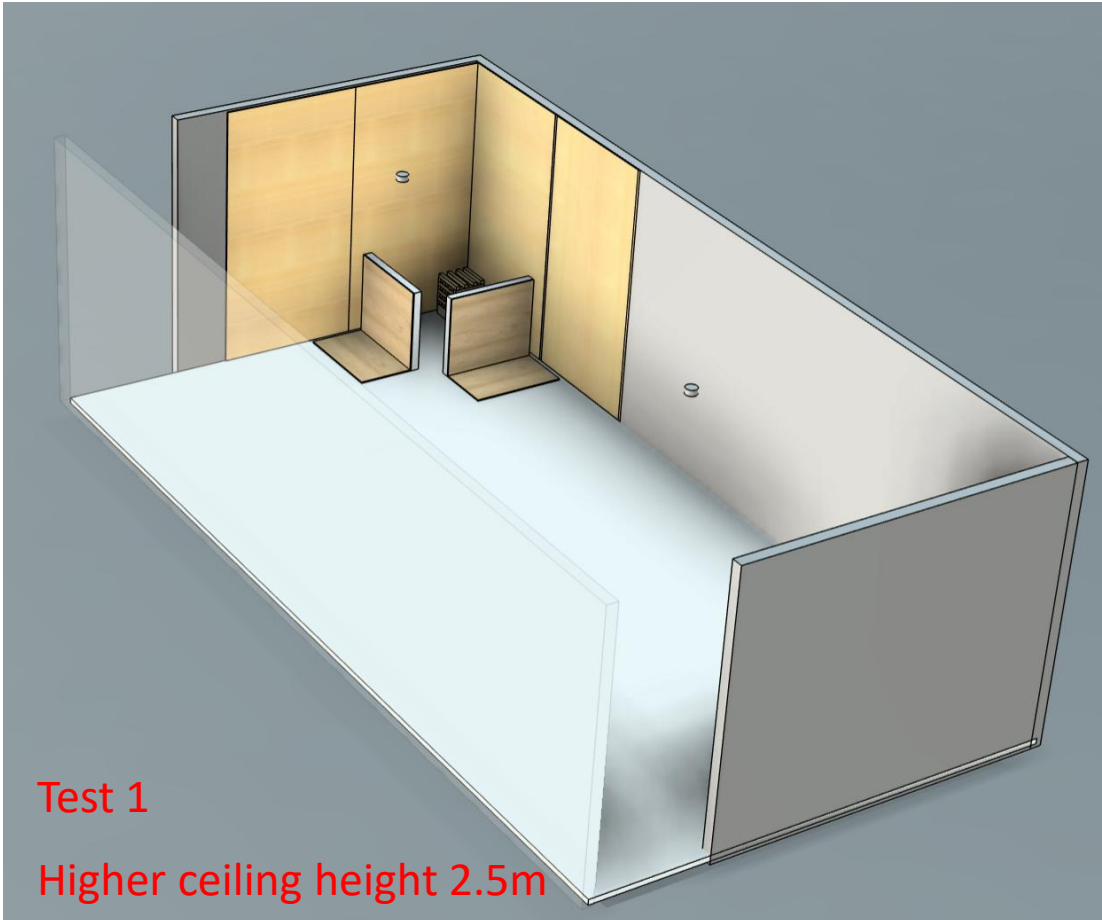


Open Sided
Room Test

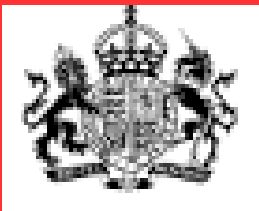
Additional Water Mist Tests

Test 6

Higher ceiling height 3.5m



Ministry of Housing & Local Government Fire Statistics



Total Residential Data

- 8.4% of total cases had water mist installed
- 94.8% of water mist cases controlled the fire
- 91.5% of sprinkler cases controlled the fire
- 35.8% of water mist cases, the fires were extinguished
- 37.5% of sprinkler cases, the fires were extinguished.

Total Commercial and Residential

- 19.3% of total cases had water mist installed
- 95.3% of water mist cases controlled the fire
- 90.6% of sprinkler cases controlled the fire
- 58.1% of water mist cases, the fires were extinguished
- 27.6% of sprinkler cases, the fires were extinguished

Future developments of the UK Residential Mist Industry

- 3rd Party Installer Accreditations for Installers
- Industry training courses for BS EN 14972
- Specifiers course or educational content

The logo for ICO, featuring the letters 'iCO' in a stylized, italicized font. The 'i' is lowercase and the 'CO' is uppercase. The letters are white with a red outline, set against a solid red square background. A registered trademark symbol (®) is located to the upper right of the 'O'. The logo is positioned within a large, light green circular graphic that has a thick, slightly irregular border.

ICO[®]



Thank You

Questions