

EXPLANATION OF TEST RESULT SUMMARY FOR MTS50. DATED 02/2016.

Watertightness - Classification in accordance with EN 12208

Watertightness is measured in resistance to leakage at progressively increasing test pressures, 300Pa (Class 7A) being considered the most severe UK requirement.

Resistance to Wind Load.- Classification in accordance with EN 12210

The prefix C means that deflection of the longest member was less than 1/300 at the classified test pressure. Deflection less than 1/150 (denoted by a prefix A) at a test pressure of 1200Pa is considered adequate in the UK.

Air permeability.- Classification in accordance with EN 12207

Air permeability is measured in terms of both area (m³/h/m²) and opening joint length (m³/h/m) against progressively increasing test pressures up to 600Pa for class 4. Class 2, or a maximum value at 300Pa of 13m³/h/m, is the UK standard requirement.

Heat Transfer Coefficient.- In accordance with EN ISO 10077-1

A heat transfer value from greater than 1.50w/m²K can be achieved, dependant on glazing specification. Note the windows tested by Montanstahl are not Standard reference windows, therefore this figure cannot be used in compliance with UK Law (Part L). Unless the contract windows happen to be the same size as those tested.

Mechanical Performance of profiles.- In accordance with EN 14024-1

Classified CW/TC2. This is a test of the mechanical performance of the joint between the metal part of the profile and the insulating part of the profile, at a given temperature. Were CW=Profiles mainly designed for the constituent part of curtain walls with spans greater than 2.25m. Were TC2 = Temperature categories, lowest (-20+-2) degrees C. Too the highest (80+-3) degrees C.

Sound Insulation.- In accordance with EN ISO 10140

Sound reduction can be up to $R_w+C_{tr}=41\text{dB}$ ($R_w=46\text{dB}$), glazing dependant.

Note this can only be taken as a typical figure as no glass specification or window sizes have been provided. Contract specific Sound reduction figures are probably best derived by calculation using BS EN 14351-1 Appendix B.