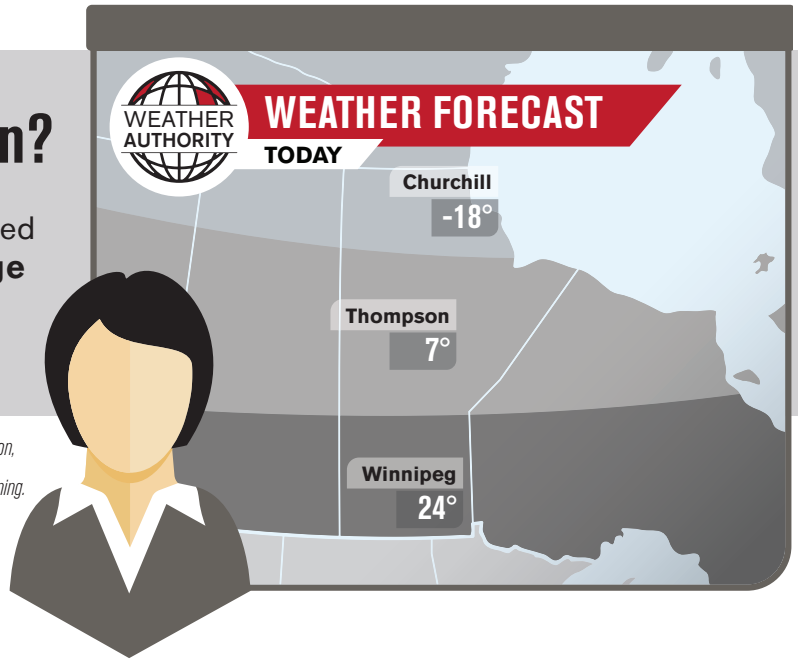


R-VALUE TESTING 101

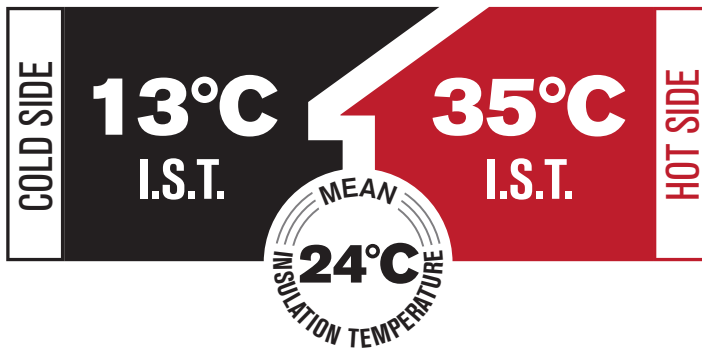
What does MEAN really mean?

Did you know that when an R-value is published for 24° C mean, MEAN refers to the **average temperature** of both surfaces of the insulation, NOT the **outside air temperature**.

The R-values for polyiso, EPS, XPS and Mineral Fiber/Stone Wool are tested using ASTM C518. In addition, the appropriate material product standard outlines the procedures used for product sampling and conditioning.



24° C MEAN REFERENCE TESTING TEMPERATURE WITH A 22° C DIFFERENTIAL



The product standards for most construction insulations require R-value testing at a 24° C mean reference testing temperature with a 22° C temperature differential. The mean reference testing temperature is the mean (average) of the cold side insulation surface temperature (IST) and the hot side insulation surface temperature (IST).

I.S.T. represents the temperature of the two defined outer most insulation surfaces

For more information on R-Value, please see [Technical Bulletin 13](#).