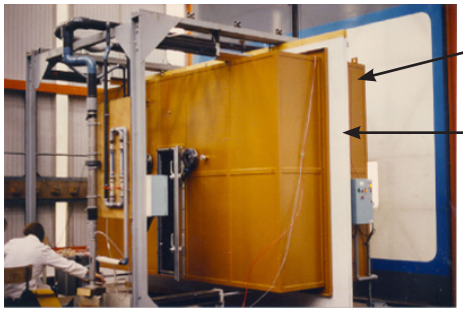
Airtightness checking

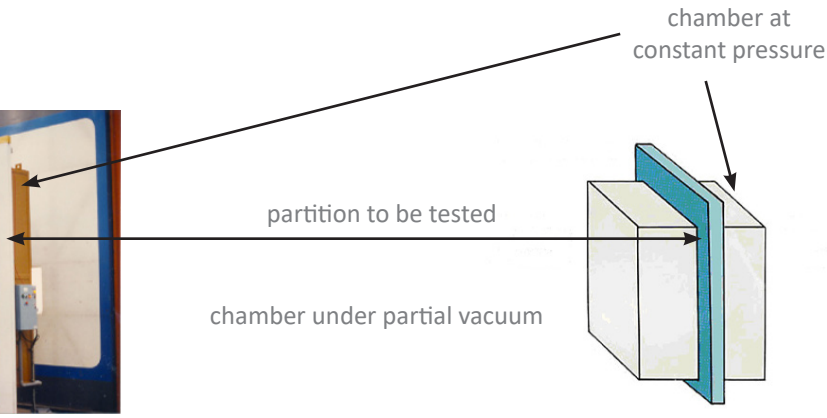
GSP-0114-E/B

To measure leaks on DAGARD components assembled according to different configurations encountered in a controlled dust atmosphere.

Principle

The partition to be tested is placed between 2 airtight chambers and subjected to a pressure difference of 50 Pa *0.0072 PSI* (normal use) then 200 Pa *0.029 PSI* (accidental), then 50 Pa *0.0072 PSI* again. The leaks are measured with stabilization at each stage of the test.





Results

Partition tested	Maximum leak at pressure of 50 Pa *0.0072 PSI*	
	On the partition	Per meter of sealant
walls and ceiling with and without glazing	0,0021 $m^3/h.m^2$ *0.0069 $ft^3/h/ft^2$*	0,0027 $m^3/h.m$ *0.0088 $ft^3/h/ft$*

The airtightness was not altered by a pressure difference of 200 Pa *0.029 PSI*.

Conclusion

Partition and ceiling leak or loss rates are particularly low.

All the products are capable of withstanding significant pressures (200 Pa *0.029 PSI*) without any consequences on tightness quality.

Dagard products meet the required tightness conditions of Controlled atmosphere Enclosures.

Test performed by CETIAT (Technical Centre for Aeraulic and Thermal industries) CR N° 869092