



Test report :
ACR(M)001:2000 test for
fragility on Ondex* HR TO11
and TO15 Crystal corrugated
rooflight sheets

Test report number 208-447a



BR

...in partnership



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8 Conclusions and classifications

The impact tests reported here have assessed the fragility of specimens of Ondex* HR TO11 and TO15 Crystal (transparent) corrugated rooflight sheets of 1.9 kg/m² and 1.75 kg/m² weights respectively. The tests were performed according to methods in ACR(M) 001:2000 and results interpreted with regard to the classifications in it.

For TO11 - Impacts were made to all three positions specified in the standard. The results are classified as:

- i. Within 150 mm of the centre of the test sample – Class B non-fragile assembly
- ii. Within 300 mm of a support point, at least 150 mm away from the support – Class B non-fragile assembly
- iii. Within 150 mm of the edge of the sheet, adjacent to the underlap with the other sheet, at a position chosen by the 'competent' person - Class B non-fragile assembly

The results show that at all three positions tested the roof sheet mounted and fixed in the manner described herein attained the overall classification of Class B non-fragile assembly.

The position impacted that suffered most damage was position iii.

For TO15 - Impacts were made to the two positions listed below specified in the standard. The position ii was not tested as the previous tests indicate that the worst load case for these types of sheets is near the underlap at mid span. The position near a support is stronger. The results are classified as:

- i. Within 150 mm of the centre of the test sample – Class B non-fragile assembly
- iii. Within 150 mm of the edge of the sheet, adjacent to the underlap with the other sheet, at a position chosen by the 'competent' person - Class B non-fragile assembly. Note that this result applies to the roof assembly only after adding more fixings as described herein.

The results show that at the two positions tested the roof sheet mounted and fixed in the manner described herein attained the overall classification of Class B non-fragile assembly.

As with TO11 the position impacted that suffered most damage was position iii.