



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

Test report number 208-447b



**BR**

...in partnership



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## 7 Conclusions and classifications

The impact tests reported here have assessed the fragility of specimens of Ondex\* HR Gréca Crystal (transparent) and Translucent corrugated rooflight sheets of 1.9 kg/m<sup>2</sup> weight. The tests were performed according to methods in ACR(M) 001:2000 and results interpreted with regard to the classifications in it.

These specimens of Gréca rooflight sheets were tested only at the position iii specified in the ACR standard. This was because the forgoing results for similar weight sheets fixed in a similar fashion gave evidence that position iii represents the worst load case.

**It should be noted that the result below was achieved only after careful assembly and fixing of the specimen.** The three 'first impacts' caused different gaps under the adjacent sheets ranging from 70 mm to 200 mm. The two 'second impacts' performed caused gaps of about 130 mm. Indications are that the quality of the assembly and fixing can significantly alter the impact resistance of the sheets.

The results are classified as:

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 when tested at position iii the roof sheet mounted and fixed in the manner described herein attained the overall classification of Class B non-fragile assembly. Evidence from tests on other similar sheets suggests that these Gréca Crystal and Translucent 1.9 kg/m<sup>2</sup> sheets will also achieve Class B non-fragile assembly at the other two positions.

## 8 References

1. ACR (M) 001:2000. Test for the fragility of roofing assemblies. Advisory committee for roofwork. Materials Standard.