



CEMlite® HE SUMMARY OF RESULTS

The following information details a summary of results achieved in laboratory testing on 'cemlite®' HE. All test specimens were prepared and tested by Amdel Laboratory personnel. The summary of the results is set out as follows:

- ✱ 'cemlite®' HE has an average bulk density of 1.4g/cm₃.
- ✱ 'cemlite®' HE was found to have water absorption of 4.67% average absorption by volume and 3.34 average absorption by weight.
- ✱ 'cemlite®' HE was found to have an average unconfined compressive strength of 37.65 MPa after 28 days of curing.
- ✱ 'cemlite®' HE was found to have an average flexural strength of 10.4 MPa after 28 days of curing.
- ✱ 'cemlite®' HE was found to have an average Izod Impact strength of 14.1 joules per metre after 28 days of curing.
- ✱ 'cemlite®' HE has a slight degree of sulphate salt decay equivalent to a weight loss of less than 10g/m₂ of the area exposed.
- ✱ 'cemlite®' HE has an average ASTM C1353-1998 Taber Abrasion Index of 12.
- ✱ 'cemlite®' HE exposed to heat resistance testing on cement and concrete substrates was able to withstand temperatures up to 220°C with no apparent change.
- ✱ 'cemlite®' HE has average dimensional stability results after 10 cycles of -0.066%. No data is available for similar cementitious products. As a comparison, building stone with a similar behaviour would be considered to be contractive and moderately stable.
- ✱ AS/NZS 4586:1999 App A wet slip resistance classification for 'cemlite®' HE with a wooden float finish was determined as V. The contribution of the surface to the risk of slipping when wet is classified as very low.
- ✱ No apparent corrosion was found on steel surfaces under a 3mm thick coating of 'cemlite®' HE after 84 days of exposure in a salt fog environment.
- ✱ After exposure to 50 cycles of freeze thaw testing 'cemlite®' HE product has an average reduction of 5.8% in flexural strength.

The following average adhesive strength results were obtained on 'cemlite®' HE product:

SUBSTRATE	ADHESIVE STRENGTH (AVE)
Concrete tile	5.75 MPa
Clinker brick	4.0 MPa
Hardi-flex	1.0 MPa
Oregon	1.0 MPa
Colorbond®	0.5 MPa
Aluminium	1.0 MPa