



## ADVANTAGES

- (a) Following the guidelines of New Zealand's Thermal Insulation Standard (NZS 4218:2009) conservatively the thermal calculation for 75mm Caviteclad Thermashell installed over the surface of a wall incorporating an R=2.2 wall batt reaches a minimum of R= 3.44. The increase in thermal insulation offered by the Caviteclad Thermashell System will not only keep your dwelling substantially warmer during the winter months and cooler in summer it will also greatly reduce the costs associated with energy consumption over the life of the dwelling.
- (b) Structural Raking tests that have been conducted with Exterior Insulation and Finishing Systems clearly show that the cladding is semi-flexible. Therefore unlike bricks it is able to move independently from the framing. In practice, the screw fastening are able to move a little within the Neopor substrate which greatly reduces the likelihood of future stress fractures that commonly occur in most rigid claddings - even when earthquake style movements occur.
- (c) Caviteclad Thermashell is extremely lightweight and as a finished system weighs approximately 9-10kg/m<sup>2</sup>. By comparison, an average unplastered brick veneer weighs approximately 170kg/m<sup>2</sup>. When this figure is extrapolated out an average 160m<sup>2</sup> single level New Zealand home a brick veneer cladding will weigh over 25 tonnes more than Specialized's Thermashell alternative.
- (d) It is a scientific fact that the external location of the Neopor EPS foam insulation puts the insulation in the best place: as far toward the outside of the building as possible where the temperature fluctuates. This reduces the amount of energy that is needed to maintain a constant temperature inside the home, and does not leave cold spots like some in-wall insulation that tends to slump over time. By insulating externally you are also able to take full advantage of the thermal mass created by the framing and internal linings of the home.
- (e) Costings for the Caviteclad Thermashell System including all the proprietary flashings, plaster and paint (including application) make the overall system extremely cost effective when compared with cladding using bricks and other lightweight masonry alternatives. Further savings are assured on dwellings greater than a single storey in height, as unlike bricks the Thermashell system does not need a strip footing or heavy support lintels above windows and roof lines to support its own weight.
- (f) The substantial thickness of the Neopor substrate creates extremely deep window reveals giving the system the appearance of plastered masonry.
- (g) The Caviteclad Thermashell System is the holder of BRANZ (Building Research Association of New Zealand) Appraisal Number 510 and carries a 15 year system guarantee backed by Specialized Construction Products.
- (h) By cladding with Caviteclad Thermashell not only will owners receive a fully BRANZ appraised dry ventilated cavity system, but the new cladding system will be extremely thermally efficient both in summer and winter.
- (i) The Caviteclad Thermashell System incorporates its own, state of the art, penetration flashings to ensure all windows and doors are adequately sealed to stop water intrusion. The construction and the ownership of the cavity and installation of the proprietary flashings for the Thermashell System are accepted by the certified contractor.