



NO. 172
(1989)
ISSUED
OCTOBER 1989

Wind Loading and Bracing
Values for Hardiflex,
Hardipanel and Harditex

APPRAISAL

Product
Hardiflex, Hardipanel, and Harditex are cellular glass foam
insulated and cement bonded sand aggregate manufactured
by James Hardie & Co Pty Limited, P.O. Box 12405,
Auckland, Auckland 2013-0016.

Only detailed information. Design information is intended
to be used by the designer and is not intended to be used
by the contractor. The design information is intended to be
used by the designer and is not intended to be used by the
contractor. The design information is intended to be used by
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HARDIFLEX, HARDIPANEL AND HARDITEX

BRANZ, New Zealand Building Research Association Ltd, 100, Victoria Street, Auckland 2013-0016

Validity

The validity of this Certificate is subject to the following conditions:
1. The product conforms with the specification and is manufactured by James Hardie & Co Pty Limited.
2. The product is used in accordance with the conditions of use and the provisions of this Certificate.

The Certificate will be withdrawn immediately if the product is found to be non-compliant with the specification or if the product is found to be non-compliant with the conditions of use.

James Hardie & Co Pty Limited is responsible for the validity of this Certificate.

DESCRIPTION

Hardiflex is a cellular glass foam insulated and cement bonded sand aggregate manufactured by James Hardie & Co Pty Limited. It is used for the construction of walls, floors, and roofs. It is available in a range of thicknesses and is suitable for use in a variety of climates.

Hardipanel is a cellular glass foam insulated and cement bonded sand aggregate manufactured by James Hardie & Co Pty Limited. It is used for the construction of walls, floors, and roofs. It is available in a range of thicknesses and is suitable for use in a variety of climates.

Harditex is a cellular glass foam insulated and cement bonded sand aggregate manufactured by James Hardie & Co Pty Limited. It is used for the construction of walls, floors, and roofs. It is available in a range of thicknesses and is suitable for use in a variety of climates.

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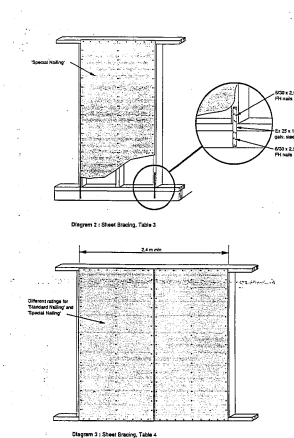
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HARDIFLEX, HARDIPANEL AND HARDITEX

Table 1

ALUMINUM WIND EXPOSURE - NZS 4203

Wind speed	100mm	200mm	300mm	400mm	500mm	600mm	700mm	800mm	900mm	1000mm
100mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
200mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
300mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
400mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
500mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
600mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
700mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
800mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
900mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1000mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

Table 2

PERMISSIBLE STRENGTH (Pa) - NZS 4203

Wind speed	100mm	200mm	300mm	400mm	500mm	600mm	700mm	800mm	900mm	1000mm
100mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
200mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
300mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
400mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
500mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
600mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
700mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
800mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
900mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1000mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

Table 3

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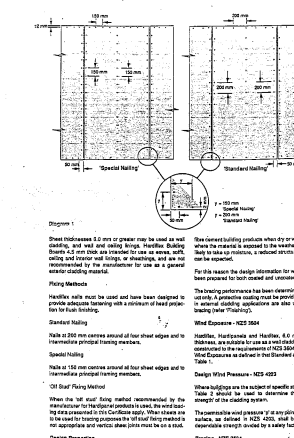
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400mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
500mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
600mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
700mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
800mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
900mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1000mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

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Wind speed	100mm	200mm	300mm	400mm	500mm	600mm	700mm	800mm	900mm	1000mm
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200mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
300mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
400mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
500mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
600mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
700mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
800mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
900mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1000mm	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

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