1 INTRODUCTION

1.1 APPLICATION
Artista® columns by James Hardie are generally used in two kinds of applications: non-load-bearing applications and load-bearing applications.

Artista columns are available in two styles:
1. The Artista® classic column is a straight hollow column with a smooth surface.
2. The Artista® tapered column is tapered from the top of the column to 900mm from the column’s base (for the 2750mm long columns). This column is also hollow; the walls are thickened to achieve the tapered shape.

James Hardie 195 and 250 diameter Artista classic columns have two square cut ends. The 345 and 425 diameter Artista classic columns are made with one square cut and one rebated end so that columns can be easily joined. See Section 5 for details. The James Hardie 195 and 250 diameter Artista Columns cannot be joined.

James Hardie has a range of Artista column accessories that can be used as bases, capitals or dress rings. They will fit anywhere on the classic column and on the very top and untapered bottom section of the tapered column.

For column and accessory physical properties, including diameter, mass and stock lengths, etc., see Section 10, Components.

1.2 SCOPE
This manual covers the use of Artista columns and its accessories in non-load-bearing (decorative) or load-bearing applications. Load-bearing columns can be either unfiled columns, to support light roof structures, or reinforced concrete filled columns for use in heavier load-bearing applications.

1.3 SPECIFIC DESIGN AND DETAILING
For use of Artista® columns outside the scope of this documentation, the designer, architect or engineer must undertake specific design.

For advice on designs outside the above scope Ask James Hardie™ on 13 11 03.
2 DESIGN

2.1 COMPLIANCE
All design and construction must comply with the appropriate requirements of the current Building Code of Australia (BCA), regulations and standards.

2.2 RESPONSIBILITY
Column design capacities are provided for load-bearing unfilled and steel reinforced concrete filled installations. The capacities provided in the tables have been prepared by consulting engineers, Cardno (NSW) Pty Ltd and are provided as guidance to the structural engineer.

It is the responsibility of the structural engineer to certify the suitability and capacity of the steel reinforced concrete filled columns for any given project.

The specifier or other party responsible for the project must ensure the details in this specification are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope and specifications of this manual.

2.3 DECORATIVE COLUMNS
Artista columns can be used as non-load-bearing for decorative purposes, or with internal load-bearing posts. Here, the column is selected for its finish and any load is supported by the internal load-bearing post. The internal post (either steel or timber) is then designed to support the proposed loading.

NOTE
Before selecting an internal load-bearing post, refer to Clause 2.4 to determine if the columns you want to use can support the proposed load. This can result in substantial material and labour savings.

2.4 UNFILLED COLUMNS – LOAD-BEARING
2.4.1 General
Artista columns can be used in load-bearing applications where the walls of the column supports the structure above. The capacity varies depending on the diameter, the height and if handrails are used. See Clauses 2.4.2 and 2.4.3.

2.4.2 Without handrails
For maximum supported roof area and Ultimate Limit State (ULS) loads for the various column diameters, height and bearing without handrails, refer to Tables 1 and 2 for Artista classic and tapered columns respectively.

2.4.3 With handrails
For maximum supported roof area and ULS loads for the various column diameters, height and bearing with handrails, refer to Tables 3 and 4 for Artista classic and tapered columns respectively.

Using the tables requires repetitive checking. Select a design and check the proposal to see if the system satisfies the load-bearing capacity of the columns. If the proposed design does not satisfy, simply increase the column diameter or the thickness of the supported beam until the proposed design works.

2.4.4 How to use the tables
Step 1 (Column profile and handrail loads):
Determine the column profile and if the columns will support handrails. Select the appropriate table.

Step 2 (Column diameter):
Determine the diameter. This is usually based on roof height.

Step 3 (Column height):
Determine the column height.

Step 4 (Beam parameters):
Determine the beam size to be used and the eccentricity of the beam in relation to the centre of the column.

NOTE
Ensure that the eccentricity of the beam to the column is no greater than a quarter of the column’s overall diameter i.e. OD/4.

Step 5 (Load parameters):
Determine either the roof area or the ULS load to be supported by the column.

Step 6 (Check):
Ensure that ULS loading or maximum supported roof area read from the table is greater than the calculated load or supported roof area obtained in Step 5.
### TABLE 1

**ARTISTA CLASSIC COLUMN - NO HANDRAIL LOADING**

**SUPPORTED ROOF AREAS AND ULS LOADS - EMAX = OD/4 (see Figure 18 Section A-A)**

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>BMIN = 35mm</th>
<th>BMIN = 45mm</th>
<th>BMIN = 70mm</th>
<th>BMIN = 90mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sheet roof</td>
<td>Tiled roof</td>
<td>Sheet roof</td>
<td>Tiled roof</td>
</tr>
<tr>
<td>195 (176)</td>
<td>Up to 3000</td>
<td>6.8</td>
<td>10.1</td>
<td>4.3</td>
<td>6.8</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>5.2</td>
<td>7.7</td>
<td>3.3</td>
<td>5.2</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>4.4</td>
<td>6.6</td>
<td>2.8</td>
<td>4.4</td>
</tr>
<tr>
<td>250 (233)</td>
<td>Up to 3000</td>
<td>10.3</td>
<td>15.3</td>
<td>6.5</td>
<td>10.3</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>8.8</td>
<td>13.0</td>
<td>5.6</td>
<td>8.8</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>7.6</td>
<td>11.3</td>
<td>4.8</td>
<td>7.6</td>
</tr>
<tr>
<td>345 (304)</td>
<td>Up to 4000</td>
<td>27.1</td>
<td>40.2</td>
<td>17.2</td>
<td>32.7</td>
</tr>
<tr>
<td></td>
<td>5000</td>
<td>27.1</td>
<td>40.2</td>
<td>17.2</td>
<td>27.4</td>
</tr>
<tr>
<td></td>
<td>6000</td>
<td>21.3</td>
<td>31.6</td>
<td>13.5</td>
<td>21.3</td>
</tr>
<tr>
<td>425 (380)</td>
<td>Up to 6000</td>
<td>29.6</td>
<td>43.9</td>
<td>18.8</td>
<td>38.2</td>
</tr>
</tbody>
</table>

### TABLE 2

**ARTISTA TAPERED COLUMN - NO HANDRAIL LOADING**

**SUPPORTED ROOF AREAS AND ULS LOADS - EMAX = OD/4 (see Figure 18 Section A-A)**

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>BMIN = 35mm</th>
<th>BMIN = 45mm</th>
<th>BMIN = 70mm</th>
<th>BMIN = 90mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sheet roof</td>
<td>Tiled roof</td>
<td>Sheet roof</td>
<td>Tiled roof</td>
</tr>
<tr>
<td>195/250 (176)</td>
<td>Up to 3000</td>
<td>12.5</td>
<td>15.8</td>
<td>8.0</td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>10.7</td>
<td>15.8</td>
<td>6.8</td>
<td>10.7</td>
</tr>
<tr>
<td>250/345</td>
<td>Up to 4000</td>
<td>11.2</td>
<td>16.6</td>
<td>7.1</td>
<td>14.5</td>
</tr>
<tr>
<td>345/425 (304)</td>
<td>Up to 4000</td>
<td>27.1</td>
<td>40.2</td>
<td>17.2</td>
<td>35.0</td>
</tr>
</tbody>
</table>

### TABLE 3

**ARTISTA CLASSIC COLUMN - WITH HANDRAIL LOADING**

**SUPPORTED ROOF AREAS AND ULS LOADS - EMAX = OD/4 (see Figure 18 Section A-A)**

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>BMIN = 35mm</th>
<th>BMIN = 45mm</th>
<th>BMIN = 70mm</th>
<th>BMIN = 90mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
<td><strong>Ult. load (kN)</strong></td>
<td><strong>Supported roof area (m²)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sheet roof</td>
<td>Tiled roof</td>
<td>Sheet roof</td>
<td>Tiled roof</td>
</tr>
<tr>
<td>250 (233)</td>
<td>Up to 3000</td>
<td>6.9</td>
<td>10.2</td>
<td>4.4</td>
<td>6.9</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>5.7</td>
<td>8.5</td>
<td>3.6</td>
<td>5.7</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>5.1</td>
<td>7.6</td>
<td>3.2</td>
<td>5.1</td>
</tr>
<tr>
<td>345 (304)</td>
<td>Up to 4000</td>
<td>27.1</td>
<td>40.2</td>
<td>17.2</td>
<td>32.7</td>
</tr>
<tr>
<td></td>
<td>5000</td>
<td>25.8</td>
<td>38.2</td>
<td>16.4</td>
<td>25.8</td>
</tr>
<tr>
<td></td>
<td>6000</td>
<td>20.3</td>
<td>30.1</td>
<td>12.9</td>
<td>20.3</td>
</tr>
<tr>
<td>425 (380)</td>
<td>Up to 4000</td>
<td>27.1</td>
<td>40.2</td>
<td>17.2</td>
<td>35.0</td>
</tr>
</tbody>
</table>
2.5 CONCRETE FILLED COLUMNS – LOAD-BEARING

Artista columns must be used as formwork only in steel reinforced concrete filled applications.

The capacities provided in the tables have been prepared and certified by Cardno MBK consulting engineers, and are provided as guidance to the structural engineer. The requirements of AS 3600 ‘Concrete Structures’ and AS/NZS 1170 must be adhered to. This includes the appropriate loading combinations as well as the requirements of this manual.

ULS capacities are provided as follows:
- Table 5 – ULS axial capacities for pinned base footings
- Table 6 – ULS axial capacities for fixed base footings
- Table 7 – ULS uplift capacity
- Table 8 – ULS horizontal capacity for fixed base footings only

NOTE
Rapid setting concrete or concrete set accelerator admixture must not be used.

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TABLE 4
ARTISTA TAPERED COLUMN - WITH HANDRAIL LOADING
SUPPORTED ROOF AREAS AND ULS LOADS - EMAX = OD/4 (see Figure 18 Section A-A)

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>BMIN = 35mm</th>
<th>BMIN = 45mm</th>
<th>BMIN = 70mm</th>
<th>BMIN = 90mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(kN)</td>
<td>(m²)</td>
<td>(m²)</td>
<td>(kN)</td>
</tr>
<tr>
<td>195/250 (176)</td>
<td>Up to 3000</td>
<td>5.0</td>
<td>7.4</td>
<td>3.1</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3600</td>
<td>4.4</td>
<td>6.5</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4000</td>
<td>4.0</td>
<td>5.9</td>
<td>2.5</td>
</tr>
<tr>
<td>250/345 (233)</td>
<td>Up to 4000</td>
<td>8.2</td>
<td>12.1</td>
<td>5.2</td>
<td>8.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250/345 (233)</td>
<td>Up to 4000</td>
<td>27.1</td>
<td>40.2</td>
</tr>
</tbody>
</table>

NOTES FOR TABLES 1 TO 4
2. Tables 1 to 4 were prepared by consulting engineers Cardno (NSW) Pty Ltd.
3. For intermediate column heights use the load capacity or roof area for the greater column height.
4. The above tables are based upon the limitations and construction details given in this manual.
5. Maximum wind classification is Region A Non-Cyclonic Terrain Category 3 to AS 1170.2 – 2002 or W41 Non-Cyclonic to AS 4055.
6. The tables do not take bracing loads into account. The bracing capacity of the columns is assumed to be zero.
7. Supported roof areas are based upon the following max. roof masses: tiled roof 100kg/m², sheet roof 25kg/m² plus live load and load factors in accordance with AS1170.0 – 2002 and AS 1170.1 – 2002.
8. The tables assume that the tops of the columns are securely laterally restrained in position by the roof framing diaphragm.
9. The tables assume that the supported roof beams are of F14 minimum stress grade or S3 strength group timber in accordance with AS 1720.1 – 1997, ‘SAA Timber Structures Code’.
10. Ends of columns must be cut square.
11. These tables do not apply if columns have cut outs. The tables are based upon the installation of the Artista columns in accordance with the typical details referred to in Clause 11.2.
12. The installed widths of the neoprene bearing pads beneath the timber beams must be at least 5mm greater than the width of the overlying timber.
13. The above tables require that both side walls of the columns are loaded equally as detailed in Figure 18.
### TABLE 5

**ULS AXIAL COMPRESSION CAPACITIES (kN) FOR PINNED BASE FOOTING** (see Figure 27)

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>B&lt;sub&gt;MAX&lt;/sub&gt; = OD/3</th>
<th>B&lt;sub&gt;MAX&lt;/sub&gt; = OD/2 + 50mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COLUMN REINFORCEMENT</td>
<td>One N16</td>
<td>Three N12</td>
</tr>
<tr>
<td>195 (176)</td>
<td>Up to 900</td>
<td>66</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>23</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>13</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>8</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>4</td>
<td>17</td>
</tr>
<tr>
<td>250 (233)</td>
<td>Up to 900</td>
<td>119</td>
<td>169</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>65</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>51</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>41</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>33</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>28</td>
<td>43</td>
</tr>
<tr>
<td>345 (304)</td>
<td>Up to 1800</td>
<td>148</td>
<td>199</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>103</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>88</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>75</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>67</td>
<td>86</td>
</tr>
<tr>
<td>425 (380)</td>
<td>Up to 1800</td>
<td>232</td>
<td>281</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>177</td>
<td>209</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>156</td>
<td>185</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>126</td>
<td>152</td>
</tr>
</tbody>
</table>

### TABLE 6

**ULS AXIAL COMPRESSION CAPACITIES (kN) FOR FIXED BASE FOOTING** (see Figure 28)

<table>
<thead>
<tr>
<th>OD (ID) (mm)</th>
<th>COLUMN HEIGHT (mm)</th>
<th>B&lt;sub&gt;MAX&lt;/sub&gt; = OD/3</th>
<th>B&lt;sub&gt;MAX&lt;/sub&gt; = OD/2 + 50mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COLUMN REINFORCEMENT</td>
<td>One N16</td>
<td>Three N12</td>
</tr>
<tr>
<td>195 (176)</td>
<td>Up to 900</td>
<td>66</td>
<td>105</td>
</tr>
<tr>
<td></td>
<td>1800</td>
<td>30</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>18</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>12</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>8</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>6</td>
<td>22</td>
</tr>
<tr>
<td>250 (233)</td>
<td>Up to 1800</td>
<td>74</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>2400</td>
<td>59</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>48</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>40</td>
<td>59</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>35</td>
<td>52</td>
</tr>
<tr>
<td>345 (304)</td>
<td>Up to 2400</td>
<td>113</td>
<td>141</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>99</td>
<td>123</td>
</tr>
<tr>
<td></td>
<td>3600</td>
<td>87</td>
<td>108</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>79</td>
<td>99</td>
</tr>
<tr>
<td>425 (380)</td>
<td>Up to 3000</td>
<td>172</td>
<td>202</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>143</td>
<td>171</td>
</tr>
</tbody>
</table>
NOTES FOR TABLES 5 AND 6

1. These tables have been prepared in accordance with the relevant provisions of AS 3600 – 2001.
2. Only the reinforced concrete component of the columns has been included in the calculations.
3. Interpolate ULS load capacities for intermediate heights.
4. The tables are based on a minimum class of concrete of N25 (25MPa), with 80mm slump and 10mm maximum aggregate size.
5. The tables are based upon an exposure classification of A2 to AS 3600 – 2001. For a more severe exposure classification consult a structural engineer.
6. These tables take into account wind loading to a maximum wind classification of Region A Non-Cyclonic Terrain Category 3 to AS 1170.2 – 2001 or W41 Non-Cyclonic as well as handrail loadings.
7. Column load capacities have been calculated on the basis that the columns are not subject to any other significant transverse loads between ends.
8. Columns with pinned base footings are not suitable for horizontal bracing.
9. Cover to the tie reinforcement is to be 20mm. Single bar reinforcement is to be located centrally in the column.
10. All reinforcement ties or helices are to be 6mm diameter (min) for all columns. Tie spacing is to be 150mm (max) for 195 OD columns. For all other columns adopt 150mm (max) for N12 reinforcement and 200mm (max) for N16 reinforcement.
11. All concrete must be compacted in layers by mechanical vibration to achieve a uniform consistency over the height of the column.
12. For 195 OD columns where 3 and 4 bar reinforcement is used, no concrete pour is to exceed 2400mm at one time, and additional care is required during concrete placement to ensure compaction.
13. The tables assume that the tops of the columns are securely laterally restrained in position by the roof framing diaphragm.
14. These tables relate to the capacity of the column only. The capacity of the framing members to transfer the loads to the columns is the responsibility of the designer.

TABLE 7

<table>
<thead>
<tr>
<th>FIXING</th>
<th>GRADE</th>
<th>MIN.FIXING LAP/EMBEDMENT (mm)</th>
<th>ULS UPLIFT FORCE PER BAR (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M10</td>
<td>Grade 250</td>
<td>250</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>4.6/S</td>
<td>250</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>8.8/S</td>
<td>400</td>
<td>40</td>
</tr>
<tr>
<td>M12</td>
<td>Grade 250</td>
<td>300</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>4.6/S</td>
<td>300</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>8.8/S</td>
<td>550</td>
<td>58</td>
</tr>
<tr>
<td>M16</td>
<td>Grade 250</td>
<td>400</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>4.6/S</td>
<td>450</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>8.8/S</td>
<td>900</td>
<td>104</td>
</tr>
<tr>
<td>N12</td>
<td>500MPa</td>
<td>400</td>
<td>50</td>
</tr>
<tr>
<td>N16</td>
<td>500MPa</td>
<td>650</td>
<td>90</td>
</tr>
</tbody>
</table>

NOTES FOR TABLE 7

1. ULS uplift (tie down) capacities are based on the capacity of the fixings only.
2. ULS uplift capacities assume zero co-existing shear force.
3. Embedded fixings must have a minimum clear cover to the column wall of 50mm, and a minimum spacing of 75mm, and must be installed in accordance with the requirements of AS 3600 – 2001.
3.3 DURABILITY

Framing must be kept as dry as possible at all times.

‘Timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life and conditions including exposure to insect attacks or to moisture, which could cause decay.’ Reference AS 1684.2 ‘Residential timber-framed construction’.

The above statement is also applicable for all other types of construction outside the scope of AS 1684.2 for timber framing used with Artista columns. Steel framing must have the appropriate level of durability required to prevent corrosion.

3 FRAMING

3.1 GENERAL

All framing and supports used in conjunction with Artista columns must be in accordance with the BCA, standards, regulations and the manufacturer’s specifications.

NOTE: Do not concrete encase timber posts.

3.2 STRUCTURAL GRADE

Use only seasoned timber. Unseasoned timber must not be used because it is prone to excessive shrinkage.

Steel framing must have the appropriate structural grade as per the structural engineer’s specifications.
4 INSTALLATION

4.1 GENERAL
Where the column is required to cover a timber or steel post, James Hardie recommends that the column is installed around the internal load-bearing post before erection of the structure above.

Installing the column after the support posts and associated structure have been fixed in place will require the use of split columns.

When installed the Artista columns must not be in contact with the ground nor free to fill up with water, to ensure durability.

4.2 COLUMN FIXING BRACKET
James Hardie has purpose-designed centering brackets that can be used to retrofit Artista columns onto verandahs. The process involves fixing the centering brackets to the floor and roof beam, then jacking the roof up by 30mm, inserting the column and lowering the roof onto the column. For details see Figure 1.

Column fixing brackets (Pryda) can be used with Artista classic columns up to OD 250mm and Artista tapered columns up to OD 345mm.

NOTE
When ordering column fixing brackets (Pryda) for Artista tapered columns, the nominal overall diameter (OD) at the top must be used to select the bracket (see Section 10).

Install the column fixing bracket as follows:

Step 1: Align and fix brackets to floor and under soffit prior to column installation. Provide oversize holes in brackets and oversized washers for ease of alignment. Align top and bottom brackets using a straight edge and tighten fasteners once aligned. See Figures 2 and 3.

Step 2: Prop roof to provide required clearance for column installation. The propping of the roof must be carried out in accordance with the structural engineer’s requirements. See Figure 4.

Step 3: Insert neoprene rubber bearing material between beam underside and the top of the column walls. Slowly release propping once column is aligned. See Figure 5.

Step 4: Fix hoop strap, where required, to structural engineer’s details. See Figure 6.

4.3 REINFORCED CONCRETE COLUMNS

NOTE
Ensure that columns are dry before pouring concrete otherwise the column wall may crack.

4.3.1 Installation method 1
1. Temporarily raise column upward sufficient for access. Laterally support column as required.
2. Insert fabricated reinforcement cage in column, tying to starter bars at base.
3. Remove temporary supports and lower column to final position. See Figure 7.

4.3.2 Installation method 2
1. Tie reinforcement fully into place.
2. Lift column and lower over reinforcement.

4.3.3 Placing reinforcement
The reinforcement must be installed to the specifications of the structural engineer.

4.3.4 Construction gaps
An appropriate construction gap must be provided between the top of the column and the underside of the concrete slab (or the bottom of the column if the column is pinned) so that loads are not supported on column walls, see Figure 8.

One method of achieving this is to use a self-adhesive EPDM rubber gasket adhered to the top (or bottom) of the column.

4.4 FITTING ACCESSORIES
4.4.1 General
James Hardie Artista column accessories are an attractive, easy to install way of adding detail to your columns. These accessories can be fitted using the epoxy or dowel method described below.

4.4.2 Epoxy method
Apply sufficient masonry compatible epoxy adhesive (for use with cement based products) around the column where the accessory is to be fixed. Place accessory in position and remove excess epoxy from around joint. Support accessory in position using wedges or temporary screws while epoxy cures.

If required, seal any gap between accessory and column with James Hardie joint sealant, a paintable grade polyurethane.

4.4.3 Dowel method
Place the accessory in position and support using wedges. Drill two 7mm holes through accessory and column with masonry drill bit. Do not use hammer drill. Insert 6mm dowels, leaving ends 3mm under external surface.

Fill over dowel holes in accessory ring with a suitable filler, see Figure 9.

4.4.4 Combining accessories
Multiple accessories can be combined at the top or base of a column to develop an individual and distinctive design.

4.4.5 Fitting top accessory to Artista tapered column
If you are fitting an accessory at the top of a Artista tapered column, note that it is not possible to slide the accessory down the column while the column is being installed. Also note that only a single accessory can be fitted to the top of an Artista tapered column.

You will have to either:
• install the column before the roofing or
• split the accessory, and re-fit it after the installation.

5 JOINTING

5.1 GENERAL
If the 345 and 425 diameter Artista classic columns are required to be longer than the maximum stock length of 4m, they can be joined together using James Hardie joiners.

To enable the columns to be joined, one end of the stock length columns is rebated. See Figure 10.

The two types of joiners that are available are the:
1. Rebated joiner – to provide a rebated column finish
2. Flush joiner – to provide a flush finish.

For further details of these joiners refer to Section 10, Components.
5.2 FITTING JOINERS
When using James Hardie joiners fill up the gap with a suitable sandable lightweight epoxy to flush the joint. For more information regarding alignment of the diameters see Figure 11.

NOTE
When using a rebated joiner allow for the extra overall column height.

6 FINISHING

6.1 PREPARATION
Artista columns must be dry before painting.

When applying semi-gloss or gloss finishes it is recommended that the columns be skim-coated with a suitable filler to conceal any minor surface variations.

6.2 SEALANTS
Application and use of sealants must comply with manufacturers’ instructions. Sealants, if coated, must be compatible with the paint system.

6.3 PAINTING
To ensure the durability of Artista columns, the columns must be finished with a suitable paint or texture system within 3 months of installation.

James Hardie recommends the application of two coats minimum of a quality acrylic paint to be used in accordance with the paint manufacturer’s specifications.

Painting specifications and products depend on the paint company chosen. Refer to your paint manufacturer.

James Hardie does not recommend tiling to Artista columns in an external application.

7 MAINTENANCE
It is the responsibility of the specifier to determine normal maintenance requirements. The extent and nature of maintenance will depend on the geographical location and exposure of the building. As a guide, it is recommended that basic normal maintenance tasks shall include but not be limited to:

• Washing down exterior surfaces every 6-12 months*
• Re-coating exterior protective finishes*
• Cleaning out gutters, blocked pipes and overflows as required.
• Pruning back vegetation which is close to or touching the columns.

*Refer to your paint manufacturer for washing down and recoating requirements related to paint performance.

8 PRODUCT INFORMATION

9.1 GENERAL
Artista® columns are a cellulose fibre reinforced cement building product. The basic composition is Portland cement, ground sand, cellulose fibre and water.

Artista columns are manufactured to AS/NZS 2908.2 “Cellulose-Cement Products Part 2: Flat Sheets” (ISO 8336 “Fibre Cement Flat Sheets”).

Artista columns are classified Type A, Category 2 in accordance with AS/ NZS 2908.2 “Cellulose-Cement Products”.

For Material Safety Data Sheets (MSDS) visit www.jameshardie.com.au or Ask James Hardie™ on 13 11 03.

9.2 PRODUCT MASS
Based on equilibrium moisture content the approximate mass of Artista columns is referred to in Section 10.

9.3 DURABILITY
9.3.1 Resistance to moisture/rotting
Artista columns have demonstrated resistance to permanent moisture induced deterioration (rotting) by passing the following tests in accordance with AS/NZS 2908.2:

• Water permeability (Clause 8.2.2)
• Warm water (Clause 8.2.4)
• Heat rain (Clause 6.5)
• Soak dry (Clause 8.2.5)

Resistance to fire
Artista® columns are suitable where non-combustible materials are required in accordance with C1.12 and part 3.7.1.2 of the Building Code of Australia.

9.3.3 Resistance to termite attack
Based on testing completed by CSIRO Division of Forest Products and Ensis Australia James Hardie building products have demonstrated resistance to termite attack.

9.4 ALPINE REGIONS
In regions subject to freeze/thaw conditions, all James Hardie fibre cement Artista Columns must be installed and painted in the warmer months of the year where the temperature does not create freeze and thaw conditions or paint issues. The Artista Columns must be painted immediately after installation. In addition, Artista Columns must not be in direct contact with snow and/or ice build up for extended periods, e.g. external walls in alpine regions subject to snow drifts over winter.

Furthermore, a reputable paint manufacturer must be consulted in regards to a suitable product, specifications and warranty. The paint application must not be carried out if the air temperature or the substrate temperature is outside the paint manufacturer’s recommendation including the specified drying temperature range.

James Hardie Artista Columns are tested for resistance to frost in accordance with AS/NZS 2908.2 Clause 8.2.3.
9 SAFE WORKING PRACTICES

WARNING - DO NOT BREATHE DUST AND CUT ONLY IN WELL VENTILATED AREA

James Hardie products contain sand, a source of respirable crystalline silica which is considered by some international authorities to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) minimise dust when cutting by using either ‘score and snap’ knife, fibre cement shears or, where not feasible, use a HardieBlade™ Saw Blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area to avoid breathing dust; (4) wear a properly-fitted, approved dust mask or respirator (e.g. P1 or P2) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheets available at www.jameshardie.com.au. FAILURE TO ADHERE TO OUR WARNINGS, MATERIAL SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

WORKING INSTRUCTIONS

Refer to recommended safe working practices before starting any sawing or machining.

HardieBlade™ Saw Blade
The HardieBlade™ Saw Blade used with a dust-reducing saw and HEPA vacuum extraction allows for fast, clean cutting of James Hardie fibre cement products.

A dust-reducing saw uses a dust deflector or a dust collector which can be connected to a vacuum system.

NOTES
1. The cut out detail of Figure 33 applies to non load-bearing or reinforced columns only. A cut out in an un-reinforced load-bearing column will invalidate the use of Tables 1 to 4 and must be referred to a professional engineer.
2. You will have to select Artista column accessories to suit the different diameters of the top and base of the tapered column.

Cutting Artista tapered columns to length
If you are cutting a tapered column to suit a particular roof height, and you plan to fit accessories at the top, you must only cut from the base (i.e. the untapered area) of the column. This will ensure that the top and base diameters of the reduced length column remain unchanged so accessories will still fit.

STORAGE AND HANDLING

To avoid damage, all James Hardie building products should be stored with edges and corners of the sheets protected from chipping.

James Hardie building products must be installed in a dry state and protected from rain during transport and storage. The product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc.

QUALITY

James Hardie conducts stringent quality checks to ensure any product manufactured falls within our quality spectrum. It is the responsibility of the builder to ensure the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying obvious aesthetic surface variations following installation.
## ARTISTA COLUMN TECHNICAL SPECIFICATION JANUARY 2012

### ARTISTA COLUMN

<table>
<thead>
<tr>
<th>Type</th>
<th>To suit column OD (mm)</th>
<th>Type</th>
<th>To suit column OD (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell</td>
<td>Outside dia 265 336</td>
<td>Twin</td>
<td>Outside dia 259 314</td>
</tr>
<tr>
<td></td>
<td>Height 35 43</td>
<td></td>
<td>Height 55 55</td>
</tr>
<tr>
<td>Cove</td>
<td>Outside dia 261 350</td>
<td>Quad</td>
<td>Outside dia 259 314</td>
</tr>
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<td></td>
<td>Height 54 70</td>
<td></td>
<td>Height 30 30</td>
</tr>
<tr>
<td>Pencil round</td>
<td>Outside dia 259 314 407 487</td>
<td>Ornate</td>
<td>Outside dia 359 431 521 602</td>
</tr>
<tr>
<td></td>
<td>Height 60 60 60 60 60</td>
<td></td>
<td>Height 95 95 95 95 95</td>
</tr>
</tbody>
</table>

### ARTISTA® CLASSIC COLUMN

<table>
<thead>
<tr>
<th>Nominal overall dia (mm)</th>
<th>Nominal internal dia (mm)</th>
<th>Stock lengths (m)</th>
<th>Mass approx. kg/Lm</th>
<th>Mass approx. kg</th>
</tr>
</thead>
<tbody>
<tr>
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<td>176</td>
<td>2.75</td>
<td>9.3</td>
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<td>2.75</td>
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<td>4.0</td>
<td>44.0</td>
<td>176.0</td>
</tr>
</tbody>
</table>

### ARTISTA® TAPERED COLUMN

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<thead>
<tr>
<th>Nominal overall dia at base (mm)</th>
<th>Nominal overall dia at top (mm)</th>
<th>Nominal internal dia (mm)</th>
<th>Stock lengths (m)</th>
<th>Column mass approx. (kg)</th>
</tr>
</thead>
<tbody>
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<td>2.75</td>
<td>82</td>
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<td>345</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>225</td>
</tr>
</tbody>
</table>

### ARTISTA COLUMN ACCESSORIES

#### BASES AND CAPITALS OVERALL DIAMETER AND HEIGHTS (mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>To suit column OD (mm)</th>
<th>Type</th>
<th>To suit column OD (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell</td>
<td>Outside dia 265 336</td>
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<td></td>
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<td></td>
<td>Height 55 55</td>
</tr>
<tr>
<td>Cove</td>
<td>Outside dia 261 350</td>
<td>Quad</td>
<td>Outside dia 259 314</td>
</tr>
<tr>
<td></td>
<td>Height 54 70</td>
<td></td>
<td>Height 30 30</td>
</tr>
<tr>
<td>Pencil round</td>
<td>Outside dia 259 314 407 487</td>
<td>Ornate</td>
<td>Outside dia 359 431 521 602</td>
</tr>
<tr>
<td></td>
<td>Height 60 60 60 60 60 60</td>
<td></td>
<td>Height 95 95 95 95 95</td>
</tr>
</tbody>
</table>

#### JOINING SLEEVES OVERALL DIAMETER AND HEIGHTS (mm)

<table>
<thead>
<tr>
<th>Type</th>
<th>To suit column OD (mm)</th>
<th>Type</th>
<th>To suit column OD (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rush</td>
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<td>Rebate</td>
<td>Outside dia 336 416</td>
</tr>
<tr>
<td></td>
<td>Height 80 80</td>
<td></td>
<td>Height 140 140</td>
</tr>
</tbody>
</table>

### ARTISTA COLUMN FIXING BRACKET (PRYDA) TO FIT COLUMNS

- James Hardie Part No: 305577 305578
- 195 classic: ✓
- 250 classic: ✓
- 250 tapered: ✓
- 345 tapered: ✓

**NOTE:** The centring brackets are folded from 1.2mm zincalume strapping 50mm wide to suit the column ID.

### COMPONENTS NOT SUPPLIED BY JAMES HARDIE

James Hardie recommends the following products for use in conjunction with its Artista columns. James Hardie does not supply these products and does not provide a warranty for their use. Please contact the component manufacturers for information on their warranties and further information on their products.

- Megapoxy P1
- Hilti CA125
- 1 to 1.6mm thick galvanised metal angles
- Dynabolics
- Non shrink grout
- Hoop iron
- EPDM gasket

Concrete and steel reinforcement (rapid setting concrete or concrete accelerator admixture must not be used).

Neoprene bearing pad
11 CONSTRUCTION DETAILS

11.1 DECORATIVE COLUMNS
11.1.1 Decorative – unfilled
For typical decorative installation details, see Figure 12. Other methods may be used, provided columns are adequately secured at top and base.

Half columns can be used to provide a decorative finish to walls to match columns. For wall detail see Figure 13.

11.1.2 Decorative – internal load-bearing post
In this application, the column hides an internal steel or timber post and the internal post carries the load. It is the responsibility of the structural engineer to design the supporting timber or steel post.

To install columns around an internal post before roofing, see Figures 14, 15 and 16.

To retrofit columns around an internal post after the roof has been installed see Figure 17.

11.2 UNFILLED COLUMNS – LOAD-BEARING
11.2.1 General
Artista columns can be used in load bearing applications where the walls of the column supports the structure above, refer to Clause 2.4.

For a typical load-bearing unfilled column details, see Figure 18.

11.2.2 Handrail fixing details
For handrail fixing details, see Figure 19.

11.2.3 Fixing unfilled column bases
(a) Without accessory
Pre-drill columns with oversize diameter holes and countersink screws by 4mm. Use countersunk head self-drilling screws and fill over with Hilti CA 125 epoxy, Megapoxy P1 or equivalent.

(b) With accessory
Where fasteners are covered by base/capital accessory, pre-drill columns with oversize diameter holes. Use Type 17 self-embedding head screws.

For fixing bases to floor see Figures 20 and 21.

11.3 STEEL REINFORCED CONCRETE FILLED COLUMNS – LOAD-BEARING
11.3.1 General
The ULS load capacities of James Hardie Artista column are provided in Clause 2.5. It is the responsibility of the structural engineer to certify the suitability and capacity of the steel reinforced concrete filled columns for any given project.

For typical column details, see Figure 22.

11.3.3 Cover
Reinforcement cover must be in accordance with the structural engineer’s specifications.

The capacities provided in Clause 2.5 are based on cover to the tie reinforcement of 20mm. Single bar reinforcement is to be located centrally in the column.

11.3.4 Reinforcement
Steel reinforcement must be in accordance with the structural engineer’s specifications and AS 3600 – 2001.

For typical reinforcement arrangements, see Figures 23 to 26.

11.3.5 Starter bars
Starter bars at the bases of columns must have the same configuration as the column reinforcement. Provide a column starter bar to each column reinforcing bar. Splicing and development lengths for bars must be as per the structural engineer’s specifications.

The capacities provided in Clause 2.5 are based on minimum starter bar lap lengths of 400mm and 650mm (min) for N12 and N16 reinforcement respectively.

11.3.6 Ties
Tie reinforcement must be in accordance to the structural engineer’s specifications and AS 3600 – 2001.

The capacities provided in Clause 2.5 are based on ties or helices of 6mm diameter (min) for all columns. Tie spacing is to be 150mm (max) for 195 OD columns. For all other columns adopt 150mm (max) for N12 reinforcement and 200mm (max) for N16 reinforcement.

11.3.7 Connections
11.3.7.1 Base connections
For typical details on base connections see Figures 27 and 28.

NOTE
The load capacity provided in Clause 2.5 is dependant on the end fixing condition i.e. pinned or fixed.

11.3.7.2 Top connections
For typical details of top connections, see Figures 29 to 32.

NOTE
The load eccentricity (E) is measured from the column centreline to the centre of the applied load.

All dimensions given are in millimetres, unless shown otherwise.
The following CAD's are available for download at www.accel.com.au.
FIGURE 6 STEP 5: FIXING HOOP IRON STRAP

Tension hoop iron and nail to engineer's detail

Position and fix capital (optional)

Position and fix base (optional)

FIGURE 7 REINFORCED COLUMN INSTALLATION DETAIL

Support columns during construction as required

Spacers are required to locate reinforcement centrally in column

Artista® column by James Hardie

Spiral or hoop reinforcement

Temporary support

(a) Alternative 1

(b) Alternative 2

FIGURE 8 CONSTRUCTION GAP

Gasket

Formwork

Artista® column by James Hardie

FIGURE 9 ACCESSORY FIXING DETAIL - USING DOWEL

Artista® column accessory

Fill over dowel with epoxy filler e.g. "Hilti CA 125" "Megapoxy P1" or equivalent

Dowel

Seal gap with James Hardie joint sealant

Artista® column by James Hardie

FIGURE 10 DETAIL OF REBATE ENDS (STOCK LENGTH COLUMNS) - 345 & 425 ONLY

Artista® column by James Hardie

O/D

44
FIGURE 11 JOINERS FOR JAMES HARDIE ARTISTA CLASSIC COLUMNS - 345 & 425MM

(a) Rebate joiner
(b) Flush joiner

FIGURE 12 TYPICAL DECORATIVE FIXING DETAIL

Artista® column by James Hardie
Timber fixing blocks (alternative)
Fixing angles

Section A
NOTE
Do not concrete encase timber posts.
To join columns, use Hilti CA 125, Megapoxy P1 or equivalent epoxy. As the joint may be difficult to conceal, James Hardie recommends the use of high-build texture coating to hide joints.

In designs where uplift is not an issue the tie down can be omitted. Consult your structural engineer for requirements.
FIGURE 23 SINGLE BAR SECTION

NOTE:
Rapid-setting concrete or concrete set accelerator admixture must not be used.

FIGURE 24 THREE BAR SECTION

NOTE:
Rapid set concrete must not be used.

FIGURE 25 ALTERNATIVE THREE BAR SECTION

NOTE:
Rapid set concrete must not be used.

FIGURE 26 FOUR BAR CAGE SECTION

NOTE:
Rapid-setting concrete or concrete set accelerator admixture must not be used.

FIGURE 27 TYPICAL PINNED BASE ARRANGEMENT

NOTE:
Rapid set concrete must not be used.

FIGURE 28 TYPICAL FIXED BASE ARRANGEMENT

NOTE:
Rapid set concrete must not be used.
FIGURE 29  TYPICAL TOP CONNECTION DETAILS - EMAX = OD/3

NOTE:
Rapid set concrete must not be used.

FIGURE 30  TYPICAL TOP CONNECTION DETAILS - EMAX = OD/2 + 50mm

NOTE:
Rapid-setting concrete or concrete set accelerator admixture must not be used.
Radius corners for all cut outs

Extension may be required

See Figure 8

Artista® column by James Hardie

Lap splice bars

Restrain column while concreting

See Figure 8

Artista® column by James Hardie

50mm typical
12 WARRANTY

Artista® columns

10 YEAR WARRANTY

January 2012

James Hardie Australia Pty Limited (“James Hardie”) warrants to the first purchaser of Artista® columns (Product) from James Hardie and the last purchaser of the Product prior to installation that, subject to compliance with the Conditions of Warranty below:

- for a period of 10 years from the date of purchase, the Product will be free from defects due to defective factory workmanship or materials; and
- for a period of 10 years from the date of purchase, the Product will be resistant to damage from cracking, moisture, rotting, fire and termites to the extent set out in James Hardie’s relevant published literature current at the time of installation; and
- for a period of 12 months from the date of purchase that the accessories supplied by James Hardie will be free from defects due to defective factory workmanship or materials.

For the purposes of this warranty, a “defect” in respect of the Product means a non-compliance with AS/NZS 2908.2:2000 Cellulose-cement products - Flat sheet.

CONDITIONS OF WARRANTY

This warranty is strictly subject to the following conditions:

(a) James Hardie will not be liable for breach of this warranty unless the claimant provides proof of purchase of the Product and makes a written claim to James Hardie at the address set out below, either within 30 days after the defect would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation.

(b) the Product is subject to natural variation in finish as part of the manufacturing process. The builder/installer must ensure the Product meets aesthetic requirements before installation. Subject to the terms of this warranty, after installation of the Product, James Hardie is not liable for claims arising from aesthetic surface variations if such variations were, or would upon reasonable inspection have been, apparent prior to installation;

(c) this warranty cannot be relied upon by any other person and is not transferable;

(d) the Product must be installed and maintained strictly in accordance with the relevant James Hardie literature current at the time of installation and must be installed in conjunction with the components or products specified in the literature. To obtain copies of such literature go to or contact Ask James Hardie™ on 13 11 03, visit www.jameshardie.com.au or www.accel.com.au, or write to James Hardie at: Hardie™ on 13 11 03, visit www.jameshardie.com.au or www.accel.com.au, or write to James Hardie at:

10 Colquhoun Street Rosehill NSW 2142
PO Box 70 Parramatta NSW 2124

(e) the project must be designed and constructed in strict compliance with all relevant provisions of the current Building Code of Australia, regulations and standards;

(f) if the claimant chooses to rely upon this warranty then the claimant’s sole remedy under this warranty for breach of this warranty is (at James Hardie’s option) that James Hardie will either supply replacement Product, rectify the affected Product or pay for the cost of the replacement or rectification of the affected Product;

(g) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, James Hardie will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing, James Hardie will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing, settlement or structural movement and/or movement of materials to which the Product is attached, incorrect design of the structure, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions, efflorescence or performance of paint/coatings applied to the Product, normal wear and tear, growth of mould, mildew, fungi, bacteria, or any organism on any Product surface or Product (whether on the exposed or unexposed surfaces);

(h) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, all warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law;

(i) If meeting a claim under this warranty involves re-coating of Product, there may be slight colour differences between the original and replacement Product due to the effects of weathering and variations in materials over time and James Hardie is not liable for any such colour differences;

(j) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product and therefore to this warranty, all expenses incurred as a result of claiming under this warranty are to be borne by the claimant.

(k) In the circumstances where the Australian Consumer Law does apply in respect of the purchase of the Product and therefore to this warranty, if James Hardie accepts or it is determined by James Hardie that the claimant has a valid claim under this warranty, James Hardie will bear the claimant’s reasonable costs of claiming under this warranty. The claimant is responsible for all other costs of claiming under this warranty. All claims for such costs are to be notified to James Hardie at the address outlined below within 21 days from when the claimant first makes a claim under this warranty.

DISCLAIMER

The recommendations in James Hardie’s literature are based on good building practice but are not an exhaustive statement of all relevant information and are subject to conditions (d), (e), (g) and (h) above. Further, as the successful performance of the relevant system depends on numerous factors outside the control of James Hardie (e.g. quality of workmanship and design), James Hardie shall not be liable for the recommendations in that literature and the performance of the relevant system, including its suitability for any purpose or ability to satisfy the relevant provisions of the Building Code of Australia, regulations and standards.

IMPORTANT NOTE

If you acquire goods manufactured by James Hardie as a consumer according to the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any rights a consumer may have under this warranty are in addition to other rights and remedies of a consumer under a law in relation to the goods to which this warranty relates. Nothing in this document shall exclude or modify any legal rights a customer may have under the Australian Consumer Law or otherwise which cannot be excluded or modified at law.

Contact details if you wish to make a claim under this warranty: For more information or to make a claim under this warranty please Ask James Hardie™ on 13 11 03, visit www.jameshardie.com.au or www.accel.com.au, email James Hardie via our website or write to James Hardie at:

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