VRS - Vertical Restraint Strap

**PRODUCT DESCRIPTION**
The VRS is a single piece strap, that provides a convenient and secure method of fixing wallplates to timber and masonry walls.

**ADVANTAGES**
- Designed to provide optimum performance.
- Thinner profile than a standard tie-down strap with strengthening ribs achieving the same performance as a traditional strap.

**MATERIAL**
- 1.2 mm – galvanised mild steel - Z600

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**CE marked - Tested in accordance with EN846-4**

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**VRS 900/100 meets NHBC technical requirements**

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**Installation Guide**

**Timber Application**

Position strap against timber and fix with 8No. 3.75mm x 30mm square twist nails into wall stud and 2No. 3.75mm x 30mm square twist nails into wallplate.

<table>
<thead>
<tr>
<th>Application</th>
<th>Dimensions</th>
<th>Fixings (3.75 x 30mm)</th>
<th>Safe Working Loads (kN) - Short Term</th>
<th>Characteristic Capacity (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber to timber wallplate strap</td>
<td>500-100</td>
<td>2 7</td>
<td>3.0</td>
<td>4.8</td>
</tr>
<tr>
<td></td>
<td>700-100</td>
<td>2 8</td>
<td>3.0</td>
<td>4.8</td>
</tr>
<tr>
<td></td>
<td>900-100</td>
<td>2 8</td>
<td>3.0</td>
<td>4.8</td>
</tr>
</tbody>
</table>

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**VRS-700-100 used for illustration purposes**

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**VRS-900-100**

**VRS-700-100**

**VRS-500-100**

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**VRS 900/100 meets NHBC technical requirements**

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Position strap against timber and fix with 8No. 3.75mm x 30mm square twist nails into wall stud and 2No. 3.75mm x 30mm square twist nails into wallplate.

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**Application**

**Dimensions**

**Fixings (3.75 x 30mm)**

**Safe Working Loads (kN) - Short Term**

**Characteristic Capacity (kN)**

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**VRS-700-100 used for illustration purposes**

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**VRS-900-100**

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**VRS-700-100**

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**VRS-500-100**

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**CE marked - Tested in accordance with EN846-4**

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**VRS 900/100 meets NHBC technical requirements**

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**Installation Guide**

**Timber Application**

Position strap against timber and fix with 8No. 3.75mm x 30mm square twist nails into wall stud and 2No. 3.75mm x 30mm square twist nails into wallplate.

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**Application**

**Dimensions**

**Fixings (3.75 x 30mm)**

**Safe Working Loads (kN) - Short Term**

**Characteristic Capacity (kN)**

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**VRS-700-100 used for illustration purposes**

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**VRS-900-100**

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**VRS-700-100**

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**VRS-500-100**

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**CE marked - Tested in accordance with EN846-4**

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**VRS 900/100 meets NHBC technical requirements**

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**Installation Guide**

**Timber Application**

Position strap against timber and fix with 8No. 3.75mm x 30mm square twist nails into wall stud and 2No. 3.75mm x 30mm square twist nails into wallplate.
Position strap against masonry and plug and screw using #8 screws with red rawl plugs. Fix strap to wallplate using 2No. 3.75mm x 30mm square twist nails.

VRS Performance

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<th>Fixings</th>
<th>Safe Working Loads (kN) - Short Term</th>
<th>Characteristic Capacity (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500/100 Timber to masonry</td>
<td>2</td>
<td>4</td>
<td>0.22* or 2.0</td>
<td>3.2</td>
</tr>
<tr>
<td>700/100 wallplate strap</td>
<td>2</td>
<td>6</td>
<td>0.28* or 3.0</td>
<td>4.8</td>
</tr>
<tr>
<td>900/100</td>
<td>2</td>
<td>6</td>
<td>0.33* or 3.0</td>
<td>4.8</td>
</tr>
</tbody>
</table>

*Values shown are based on fixing into 3.5N blockwork where failure is the blockwork fixings. Generally, for masonry the screw spacing and edge distance should be at least 10x the hole diameter.