



JHA is a height adjustable joist hanger for supporting timber joists from timber members.



[UK-DoP-e06/0270](#), [ETA-06/0270](#)

## FEATURES

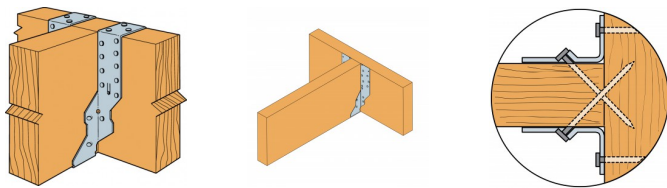


### Material

- Pre-galvanised mild steel.

### Features

- A galvanised joist hanger that provides great support with ease of installation.
- Published performance values are based upon 3.75 x 30mm square twist nails being used throughout.
- Wider strap provides more surface area on the supporting timber and allows increased nail spacing, enhancing the performance of the critical hanger-to-support part of the connection.
- Minimum and maximum nailing schedules are stamped into the strap providing correct installation information for site operatives.
- Speed-prong holds the hanger in position to allow easier attachment. The installer no longer has to try to hold hanger, joist and nail with one hand and swing a hammer with the other!
- JHA270 range features a location tab which allows easier alignment of the hanger.
- The model number and size is stamped into the seat of the hanger for easy identification, even after installation.



## APPLICATIONS

### Suitable On

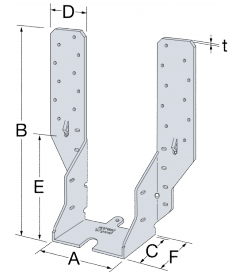
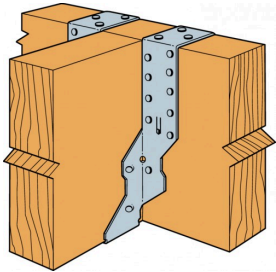
- **Solid sawn timber joists**

### When to Use

- Face Fix
- Wrap Over

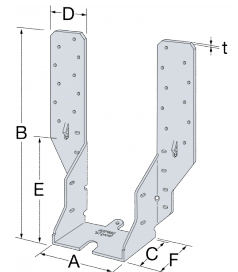
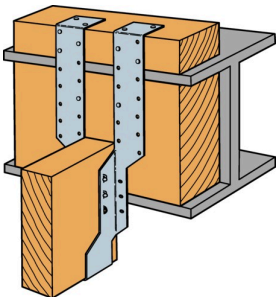
TECHNICAL DATA

Product Dimensions - JHA270



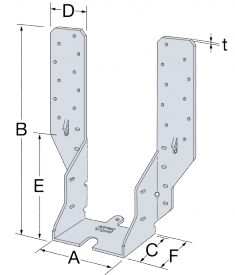
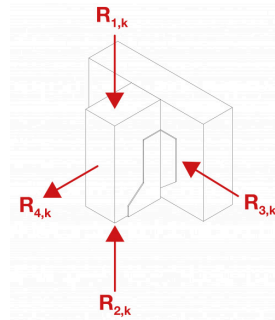
| References | Product Dimensions [mm] |       |    |      |       |      |     | Header holes | Joist holes               |
|------------|-------------------------|-------|----|------|-------|------|-----|--------------|---------------------------|
|            | A                       | B     | C  | D    | E     | F    | t   | $\phi 4$     | $\phi 6 \times 4$ Obround |
| JHA270/38  | 38                      | 241   | 50 | 48.8 | 106   | 52.1 | 0.9 | 22           | 4                         |
| JHA270/44  | 44                      | 238   | 50 | 48.8 | 103   | 52.1 | 0.9 | 22           | 4                         |
| JHA270/47  | 47                      | 236.5 | 50 | 48.8 | 101.5 | 52.1 | 0.9 | 24           | 4                         |
| JHA270/50  | 50                      | 235   | 50 | 48.8 | 100   | 52.1 | 0.9 | 24           | 4                         |
| JHA270/63  | 63                      | 248.5 | 50 | 48.8 | 113.5 | 52.1 | 0.9 | 22           | 4                         |
| JHA270/75  | 75                      | 242.5 | 50 | 48.8 | 99.5  | 52.1 | 0.9 | 22           | 4                         |
| JHA270/91  | 91                      | 234   | 50 | 48.8 | 95    | 52.1 | 0.9 | 22           | 4                         |
| JHA270/100 | 100                     | 230   | 50 | 48.8 | 230   | 52.1 | 0.9 | 22           | 4                         |

Product Dimensions - JHA450



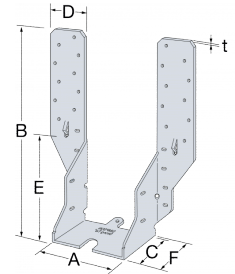
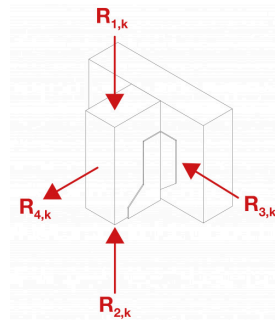
| References | Joist Size [mm] | Product Dimensions [mm] |       |    |      |       |      |     | Header holes | Joist holes              |
|------------|-----------------|-------------------------|-------|----|------|-------|------|-----|--------------|--------------------------|
|            | Width           | A                       | B     | C  | D    | E     | F    | t   | $\phi 4$     | $\phi 6 \times 4$ Oblong |
| JHA450/38  | 1x38            | 38                      | 481   | 50 | 51.5 | 191   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/44  | 1x44            | 44                      | 478   | 50 | 51.5 | 188   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/47  | 1x45            | 47                      | 477   | 50 | 51.5 | 187   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/50  | 1x50            | 50                      | 475   | 50 | 51.5 | 185   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/63  | 1x63            | 63                      | 469   | 50 | 51.5 | 179   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/75  | 1x75            | 75                      | 463   | 50 | 51.5 | 173   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/91  | 2x45            | 91                      | 455   | 50 | 51.5 | 165   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/100 | 2x50            | 100                     | 450   | 50 | 51.5 | 160   | 61.5 | 1.5 | 38           | 6                        |
| JHA450/125 | 2x63            | 125                     | 452.5 | 63 | 51.5 | 162.5 | 64.5 | 1.5 | 38           | 6                        |
| JHA450/137 | 3x45            | 137                     | 446.5 | 63 | 51.5 | 156.5 | 64.5 | 1.5 | 38           | 6                        |
| JHA450/150 | 3x50            | 150                     | 440   | 63 | 51.5 | 150   | 64.5 | 1.5 | 38           | 6                        |

JHA270 - Wrap Over Installation



| References | Header - Dimensions |      | Number of Fasteners |     |       | Characteristic capacities - Timber C16 [kN] |                  | Safe Working Loads [kN]        |                              |                   |
|------------|---------------------|------|---------------------|-----|-------|---|------------------|--------------------------------|------------------------------|-------------------|
|            | Height              |      | Header              |     | Joist | R <sub>1,k</sub>                            | R <sub>2,k</sub> | R <sub>1,SWL,Medium Term</sub> | R <sub>1,SWL,Long term</sub> | Short Term Uplift |
|            | Min                 | Max. | Face                | Top | Qty   | N3.75x30                                    | N3.75x30         | C16 header                     | C16 header                   | C16 Joist         |
|            |                     |      | Qty                 | Qty |       |   |                  | N3.75x30                       | N3.75x30                     | N3.75x30          |
| JHA270/38  | 125                 | 200  | 8                   | 4   | 4     | 10  | 2.1              | 4.8                            | 4.2                          | 1.1               |
| JHA270/44  | 125                 | 200  | 8                   | 4   | 4     | 11.6  | 2.1              | 5.5                            | 4.8                          | 1.1               |
| JHA270/47  | 125                 | 200  | 8                   | 4   | 4     | 12.4  | 2.1              | 5.9                            | 5.2                          | 1.1               |
| JHA270/50  | 125                 | 200  | 8                   | 4   | 4     | 13.1  | 2.1              | 6.2                            | 5.5                          | 1.1               |
| JHA270/63  | 125                 | 200  | 8                   | 4   | 4     | 13.2  | 2.1              | 6.3                            | 5.5                          | 1.1               |
| JHA270/75  | 125                 | 200  | 8                   | 4   | 4     | 13.2  | 2.1              | 6.3                            | 5.5                          | 1.1               |
| JHA270/91  | 125                 | 200  | 8                   | 4   | 4     | 13.2  | 2.1              | 6.3                            | 5.5                          | 1.1               |
| JHA270/100 | 125                 | 200  | 8                   | 4   | 4     | 13.2  | 2.1              | 6.3                            | 5.5                          | 1.1               |

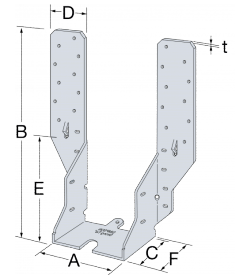
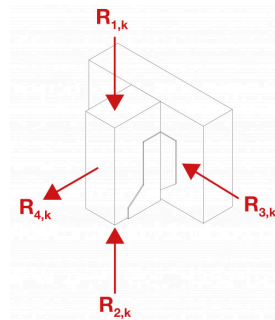
JHA450 - Wrap Over Installation



| References | Number of Fasteners |     |       | Characteristic capacities - Timber C16 [kN] |                  | Safe Working Loads [kN]        |                              |                   |
|------------|---------------------|-----|-------|---|------------------|--------------------------------|------------------------------|-------------------|
|            | Header              |     | Joist | R <sub>1,k</sub>                            | R <sub>2,k</sub> | R <sub>1,SWL,Medium Term</sub> | R <sub>1,SWL,Long term</sub> | Short Term Uplift |
|            | Face                | Top | Qty   | N3.75x30                                    | N3.75x30         | C16 header                     | C16 header                   | C16 Joist         |
|            | Qty                 | Qty |       |   |                  | N3.75x30                       | N3.75x30                     | N3.75x30          |
| JHA450/38  | 8                   | 4   | 6     | 10  | 3.1              | 4.8                            | 4.2                          | 1.6               |
| JHA450/44  | 8                   | 4   | 6     | 11.6  | 3.1              | 5.5                            | 4.8                          | 1.6               |
| JHA450/47  | 8                   | 4   | 6     | 12.4  | 3.1              | 5.9                            | 5.2                          | 1.6               |
| JHA450/50  | 8                   | 4   | 6     | 13.1  | 3.1              | 6.3                            | 5.5                          | 1.6               |
| JHA450/63  | 8                   | 4   | 6     | 13.2  | 3.1              | 6.3                            | 5.5                          | 1.6               |
| JHA450/75  | 8                   | 4   | 6     | 13.2  | 3.1              | 6.3                            | 5.5                          | 1.6               |
| JHA450/91  | 8                   | 4   | 6     | 13.2  | 3.1              | 6.3                            | 5.5                          | 1.6               |
| JHA450/100 | 8                   | 4   | 6     | 13.2  | 3.1              | 6.3                            | 5.5                          | 1.6               |

| References | Number of Fasteners |     |       | Characteristic capacities<br>- Timber C16 [kN] |           | Safe Working Loads [kN] |                       |                   |
|------------|---------------------|-----|-------|--|-----------|-------------------------|-----------------------|-------------------|
|            | Header              |     | Joist | $R_{1,k}$                                      | $R_{2,k}$ | $R_{1,SWL,Medium Term}$ | $R_{1,SWL,Long term}$ | Short Term Uplift |
|            | Face                | Top |       |  |           | C16 header              | C16 header            | C16 Joist         |
|            | Qty                 | Qty | Qty   | N3.75x30                                       | N3.75x30  | N3.75x30                | N3.75x30              | N3.75x30          |
| JHA450/125 | 8                   | 4   | 6     | 13.6   | 3.1       | 6.5                     | 5.7                   | 1.6               |
| JHA450/137 | 8                   | 4   | 6     | 13.6   | 3.1       | 6.5                     | 5.7                   | 1.6               |
| JHA450/150 | 8                   | 4   | 6     | 13.6   | 3.1       | 6.5                     | 5.7                   | 1.6               |

JHA270 - Face Fix Installation



| References | Header - Dimensions |      | Number of Fasteners |     |          | Characteristic capacities<br>- Timber C16 [kN] |           | Safe Working Loads [kN] |                       |                   |
|------------|---------------------|------|---------------------|-----|----------|--|-----------|-------------------------|-----------------------|-------------------|
|            | Height              |      | Header              |     | Joist    | $R_{1,k}$                                      | $R_{2,k}$ | $R_{1,SWL,Medium Term}$ | $R_{1,SWL,Long term}$ | Short Term Uplift |
|            | Min                 | Max. | Face                | Top |          |  |           | C16 header              | C16 header            | C16 Joist         |
|            | Qty                 | Qty  | Qty                 | Qty | N3.75x30 | N3.75x30                                       | N3.75x30  | N3.75x30                | N3.75x30              |                   |
| JHA270/38  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/44  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/47  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/50  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/63  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/75  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/91  | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |
| JHA270/100 | 200                 | 250  | 20                  | -   | 4        | 7.6  | 2.1       | 3.6                     | 3.2                   | 1.1               |

JHA450 - Face Fix Installation

| References | Number of Fasteners |       | Characteristic capacities<br>- Timber C16 [kN] |           | Safe Working Loads [kN] |                       |                   |
|------------|---------------------|-------|--|-----------|-------------------------|-----------------------|-------------------|
|            | Header              | Joist | $R_{1,k}$                                      | $R_{2,k}$ | $R_{1,SWL,Medium Term}$ | $R_{1,SWL,Long term}$ | Short Term Uplift |
|            | Face                |       |  |           | C16 header              | C16 header            | C16 Joist         |
|            | Qty                 | Qty   | N3.75x30                                       | N3.75x30  | N3.75x30                | N3.75x30              | N3.75x30          |
| JHA450/38  | 20                  | 6     | 10   | 3.1       | 4.8                     | 4.2                   | 1.6               |
| JHA450/44  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/47  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/50  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/63  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/75  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/91  | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/100 | 20                  | 6     | 10.6   | 3.1       | 5.1                     | 4.4                   | 1.6               |
| JHA450/125 | 20                  | 6     | 11.6   | 3.1       | 5.5                     | 4.8                   | 1.6               |
| JHA450/137 | 20                  | 6     | 11.6   | 3.1       | 5.5                     | 4.8                   | 1.6               |
| JHA450/150 | 20                  | 6     | 11.6   | 3.1       | 5.5                     | 4.8                   | 1.6               |

JHA450 - Below Support (Loft Conversion) Installation

| References     | Number of Fasteners |     |       | Characteristic capacities<br>- Timber C16 [kN] |                  | Safe Working Loads [kN]        |                              |                   |
|----------------|---------------------|-----|-------|--|------------------|--------------------------------|------------------------------|-------------------|
|                | Header              |     | Joist | R <sub>1,k</sub>                               | R <sub>2,k</sub> | R <sub>1,SWL,Medium Term</sub> | R <sub>1,SWL,Long term</sub> | Short Term Uplift |
|                | Face                | Top | Qty   | N3.75x30                                       | N3.75x30         | C16 header                     | C16 header                   | C16 Joist         |
|                | Qty                 | Qty |       |  |                  | N3.75x30                       | N3.75x30                     | N3.75x30          |
| JHA450/38-100  | 4                   | 4   | 6     | 9.6  | -                | 4.6                            | 4                            | -                 |
| JHA450/125-150 | 4                   | 4   | 6     | 10.1   | -                | 4.8                            | 4.2                          | -                 |

INSTALLATION

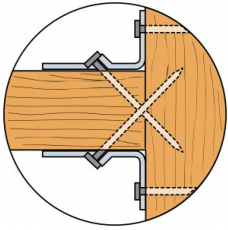
Installation

**Alternative installation methods are available depending on the availability of nailing surface.**

Maximum Nailing: All nails must be applied according to the table.

Minimum Nailing: For a lower installed cost the minimum nailing schedule can be used. A minimum wrap over of 45mm is required.

Loft Conversions (JHA450 Range): For applications where the hanger extends below the support. Install top, face, and joist nails according to the table. A minimum wrap over of 45mm is required or maximum nailing.



Double Shear Nailing.