## **Technical data sheet**

#### **BTALU**

## **Concealed Beam Hanger**



The BTALU concealed hanger is one solution to connecting timber members together without seeing the connector.

It is designed to be fixed to the header timber and then fully inserted into a slot in the in-coming beam, and held in place with dowels. Holes are drilled through the timber and fin of the BTALU, allowing accurate alignment. This method provides an aesthectically pleasing connection for feature beams.

Note: Fasteners & dowels supplied; dowel length must be specified upon ordering Holes for the joist have to be site drilled in accordance to positions shown in diagram below.



#### Material

#### **Aluminium**

### **Benefits**

- Accurate alignment of dowels
- Aesthetically pleasing

# **Applications**

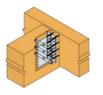
For Connecting

#### **Glulam timbers**

For Use With

Carried and carrying Glulam member

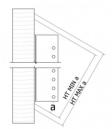


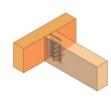


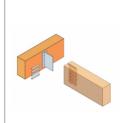


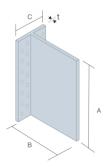
















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### **BTALU**

### **Concealed Beam Hanger**



## **Technical Data**







## Product Dimensions

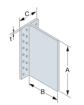
References	Min Joist Height [mm]	Product Dimensions [mm]				Header holes	Box Quantity	Weight [kg]
Neielelloes		Α	В	С	t	Ø5	DOA QUAITILITY	Weight [kg]
BTALU90	142	86	109	62	6	16	25	0.23
BTALU120	172	116	109	62	6	20	25	0.3
BTALU160	212	156	109	62	6	28	25	0.41
BTALU200	252	196	109	62	6	38	15	0.51
BTALU240	292	236	109	62	6	44	15	0.61

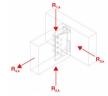
The holes for the joist has to be drill acc. to the hole pattern of the ETA.

The size A can be up to 4mm less for cutting from the raw length, the cut shall be between the nail holes.









## Performance Values

	Product Capacities [kN]										
Number of Fasteners				$R_{1,k} = R_{2,k}$							
Header Joist			Dowels length [mm]								
Qty	Туре	Qty	Type	60	80	100	120	140	160		
16	CNA4.0x50	4	STD8	10.8	11.8	12.9	13.7	13.7	13.7		
20	CNA4.0x50	3	STD12	17.3	18.2	19.4	20.7	22.3	23.9		
28	CNA4.0x50	4	STD12	28	29.5	31.2	33.3	35.7	38.2		
38	CNA4.0x50	5	STD12	39.8	41.9	44.3	47.2	50.4	53.9		
44	CNA4.0x50	6	STD12	52.2	54.9	57.9	61.7	65.9	70.3		
	<b>Qty</b> 16 20 28 38	Header           Qty         Type           16         CNA4.0x50           20         CNA4.0x50           28         CNA4.0x50           38         CNA4.0x50	Header         J           Qty         Type         Qty           16         CNA4.0x50         4           20         CNA4.0x50         3           28         CNA4.0x50         4           38         CNA4.0x50         5	Header         Joist           Qty         Type         Qty         Type           16         CNA4.0x50         4         STD8           20         CNA4.0x50         3         STD12           28         CNA4.0x50         4         STD12           38         CNA4.0x50         5         STD12	Header         Joist           Qty         Type         Qty         Type         60           16         CNA4.0x50         4         STD8         10.8           20         CNA4.0x50         3         STD12         17.3           28         CNA4.0x50         4         STD12         28           38         CNA4.0x50         5         STD12         39.8	Header         Joist           Qty         Type         G0         80           16         CNA4.0x50         4         STD8         10.8         11.8           20         CNA4.0x50         3         STD12         17.3         18.2           28         CNA4.0x50         4         STD12         28         29.5           38         CNA4.0x50         5         STD12         39.8         41.9	Header         Joist         Dowels leading           Qty         Type         60         80         100           16         CNA4.0x50         4         STD8         10.8         11.8         12.9           20         CNA4.0x50         3         STD12         17.3         18.2         19.4           28         CNA4.0x50         4         STD12         28         29.5         31.2           38         CNA4.0x50         5         STD12         39.8         41.9         44.3	Header         Joist         Dowels length [mm]           Qty         Type         60         80         100         120           16         CNA4.0x50         4         STD8         10.8         11.8         12.9         13.7           20         CNA4.0x50         3         STD12         17.3         18.2         19.4         20.7           28         CNA4.0x50         4         STD12         28         29.5         31.2         33.3           38         CNA4.0x50         5         STD12         39.8         41.9         44.3         47.2	Header         Joist         Dowels length [mm]           Qty         Type         60         80         100         120         140           16         CNA4.0x50         4         STD8         10.8         11.8         12.9         13.7         13.7           20         CNA4.0x50         3         STD12         17.3         18.2         19.4         20.7         22.3           28         CNA4.0x50         4         STD12         28         29.5         31.2         33.3         35.7           38         CNA4.0x50         5         STD12         39.8         41.9         44.3         47.2         50.4		

The joist shall have as minimum a width = length of steel dowel.

For beams with a slope  $\beta$  the capacities shall be multiply with the factor.

	β	0°	15°	30°	45°
	factor	1.0	0.95	0.90	0.85
11.0					

It's only necessary for connection with less than 7 steel dowel in the joist.

# **Technical data sheet**

### **BTALU**

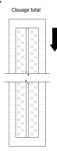
## **Concealed Beam Hanger**

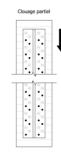


## Installation

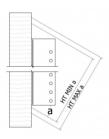
## Fixing

### CNA4,0xL



















Winchester Road Cardinal Point Tamworth Staffordshire B78 3HG

tel: +44 1827 255600 fax: +44 1827 255616

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BTALU
Concealed Beam
Hanger



