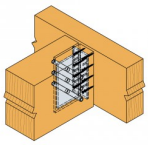
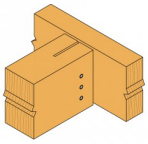
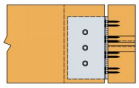
Technical data sheet

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. his method provides an aesthectically pleasing connection for feature beams.

ETA-07/0245, UK-DoP-e07/0245

FEATURES

Material

Aluminium.

Benefits

- Accuralte alignment of dowels.
- Aesthetically pleasing.

APPLICATIONS

For Connecting

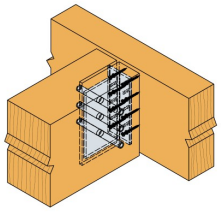
Glulam timbers.

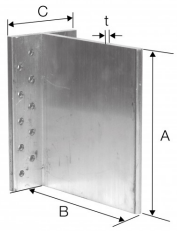
For Use With

Carried and carrying Glulam member.

TECHNICAL DATA

Product Dimensions





References	Product Dimensions [mm]				Header holes	Joist holes
	A	B	C	t	Ø5	Ø12 / *Ø8
BTALU90	86	109	62	6	16	4*
BTALU120	116	109	62	6	20	3
BTALU160	156	109	62	6	28	4
BTALU200	196	109	62	6	36	5
BTALU240	236	109	62	6	44	6

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.

Wood/wood fastening- Characteristic values in kn

References	Product Capacities									
	Number of Fasteners				Product characteristic capacities - Timber C24 [kN]					
	Header		Joist		$R_{1,k} = R_{2,k}$					
	Qty	Type	Qty	Type	Dowels length [mm]					
					60	80	100	120	140	160
BTALU90	16	CNA4.0x50	4	STD8	10.8	11.8	12.9	13.7	13.7	13.7
BTALU120	20	CNA4.0x50	3	STD12	17.3	18.2	19.4	20.7	22.3	23.9
BTALU160	28	CNA4.0x50	4	STD12	28	29.5	31.2	33.3	35.7	38.2
BTALU200	36	CNA4.0x50	5	STD12	39.8	41.9	44.3	47.2	50.4	53.9
BTALU240	44	CNA4.0x50	6	STD12	52.2	54.9	57.9	61.7	65.9	70.3

The joist shall have as minimum a width = length of steel dowel.
For beams with a slope β the capacities shall be multiply with the factor.

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

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

INSTALLATION

Fixing

CNA44,0xL