CANADIAN STRUCTURAL DESIGN GUIDE

ALU - CONCEALED BEAM HANGER

rothoblaas

Solutions for Building Technology

CANADA

ALUMIDI

CE
ETA 09/0361

CONCEALED BEAM HANGER WITH AND WITHOUT HOLES

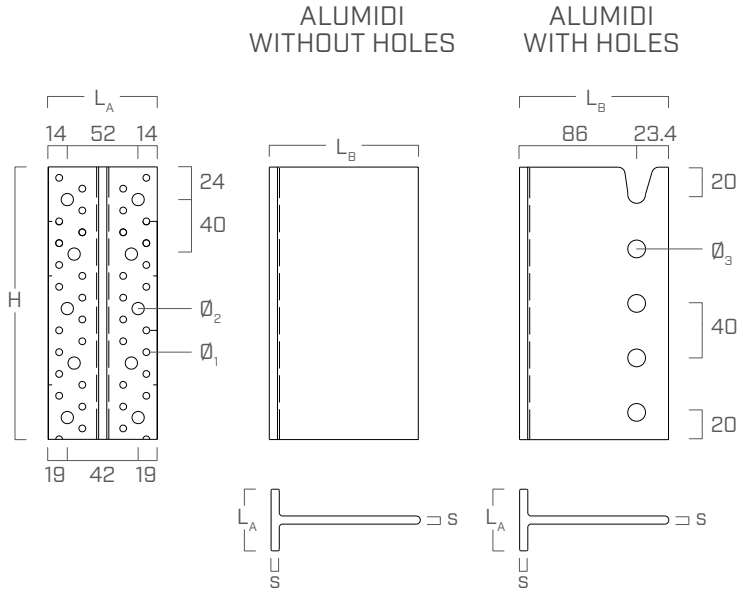
STEEL - ALUMINUM
EN AW-6005A high strength aluminum alloy, obtained by extrusion thus weld-free.

TIMBER AND CONCRETE
Optimal hole spacing both for timber (nails or screws) and concrete (chemical or screwed anchor).

SPARES MANAGEMENT
Versions without holes available in 2200 mm long pieces with notches every 40 mm, to be cut onsite according to the worksite needs.

VIDEO

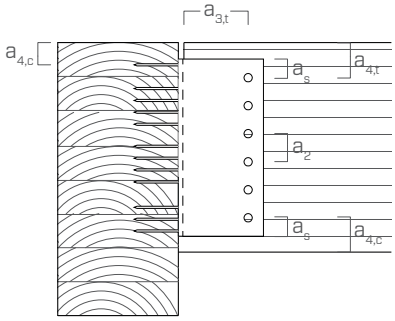
MY PROJECT SOFTWARE



GEOMETRY

			ALUMIDI without holes	ALUMIDI with holes
Thickness	s	[mm]	6	6
		[inch]	*1/4"*	*1/4"*
Flange width	L_A	[mm]	80	80
		[inch]	*3 1/8"*	*3 1/8"*
Web length	L_B	[mm]	109.4	109.4
		[inch]	*4 5/16"*	*4 5/16"*
Small flange-holes	$Ø_1$	[mm]	5.0	5.0
		[inch]	*13/64"*	*13/64"*
Large flange-holes	$Ø_2$	[mm]	9.0	9.0
		[inch]	*23/64"*	*23/64"*
Web holes (dowels)	$Ø_3$	[mm]	-	13.0
		[inch]	-	*33/64"*

INSTALLATION: MINIMUM DISTANCES



SECONDARY BEAM - TIMBER				self-drilling dowel SBD Ø7.5	smooth dowel STA Ø12
Dowel - Dowel	a_2	[mm] *[inch]*	≥ 3 d	≥ 23 *29/32"*	≥ 36 *1 27/64"*
Dowel - Beam extrados	$a_{4,t}$	[mm] *[inch]*	≥ 4 d	≥ 30 *1 3/16"*	≥ 48 *1 57/64"*
Dowel - Beam intrados	$a_{4,c}$	[mm] *[inch]*	≥ 3 d	≥ 23 *29/32"*	≥ 36 *1 27/64"*
Dowel - Beam end	$a_{3,t}$	[mm] *[inch]*	≥ {7d; 80}	≥ 80 *3 5/32"*	≥ 80 *3 5/32"*
Dowel - Bracket edge	a_s	[mm] *[inch]*	≥ 1.2 d_0 (1)	≥ 10 *25/64"*	≥ 16 *5/8"*

MAIN BEAM - TIMBER				anker nail LBA Ø4	screw LBS Ø5
First connector – Beam extrados	$a_{4,c}$	[mm] *[inch]*	≥ 5 d	≥ 20 *25/32"*	≥ 25 *1"*

GENERAL PRINCIPLES:

The characteristic values comply with the EN 1995:2008 standard in accordance with ETA-09/0361.

Design values for wood-side are obtained from characteristic values as follows: $R_d = R_k \cdot DMF$
DMF: design modification factor based on k_{mod} (modification factor according to EN 1995-1-1) and for γ_M (partial factors for material properties and resistances according to EN 1995-1-1 - $\gamma_M = 1.3$)

Load case	Load Combination Principal Load	Load Combination Companion Load	Design Modification Factor DMF
1	1.4D	-	**0.46**
2	(1.25D or 0.9D) + 1.5L	1.0S or 0.4W	**0.62** *
3	(1.25D or 0.9D) + 1.5S	1.0L or 0.4W	**0.62**
4	(1.25D or 0.9D) + 1.4W	0.5L or 0.5S	**0.69**
5	1.0D + 1.0E	0.5L or 0.25S	**0.69**

** If Live Load L is associated with long term loads such as storage, equipment areas etc., use 0.54*

In the calculations, the density of the wood elements was considered equal to $\rho_k = 370$ kg/m^3 (S-P-F sawn lumber). Wood densities conversion (mean ovendry relative density to 5th-percentile density 12% MC wt & vol) as proposed in chapter 4. of Wood Handbook. Characteristic resistances can also be considered as valid for higher densities, for the purposes of safety

All strength values of the connection system are valid for the calculation hypotheses listed in the table. For different configurations the free software myProject is available (www.rothoblaas.com)

Sizing and verification of wood elements must be done separately. In some cases the connection shear strength $R_{V,k}$ is notably hight and may be higher than the secondary joist shear strength. Particular attention should be paid to the shear stess of the reduced timber crossection in correspondence with the bracket location

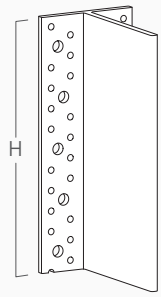
NOTES:

(1) Hole diameter

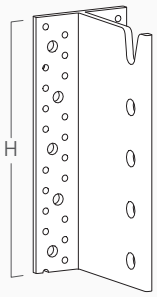
(2) Self-drilling dowels SBD Ø7.5 ($f_{u,k}$ = 740 N/mm^2)

(3) Smooth dowels STA Ø12 ($f_{u,k}$ = 360 N/mm^2)

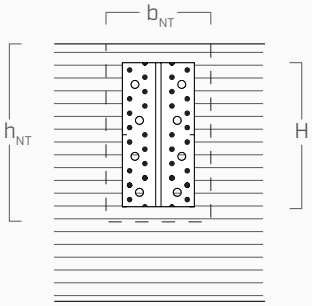
STATIC VALUES - TIMBER-TO-TIMBER JOINT - RIGHT ANGLE - TOTAL NAILING

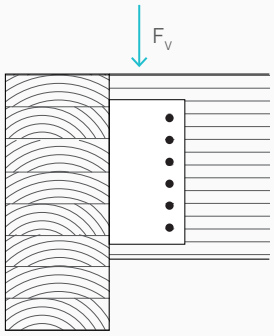


01



02





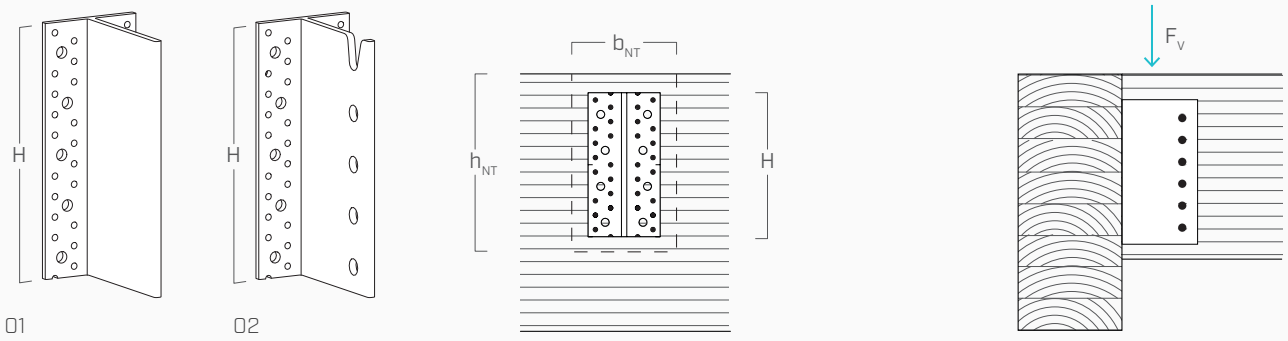
01 - ALUMIDI WITHOUT HOLES: FIXING THROUGH NAILS

						SECONDARY BEAM	MAIN BEAM	CHARACTERISTIC VALUES		DESIGN VALUES (FACTORED RESISTANCE)					
H		b_{NT}		h_{NT}		dowels SBD [2] Ø7.5	nails LBA Ø4 x 60	$R_{V,k}$		$R_{V,d}$ Load Case 1		$R_{V,d}$ Load Case 2&3		$R_{V,d}$ Load Case 4&5	
[mm]	*[inch]*	[mm]	*[inch]*	[mm]	*[inch]*	[pcs - Ø x L]	[pcs]	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*
80	*3 1/8"*	80	*3 1/8"*	120	*4 3/4"*	2 - Ø7.5 x 75	14	5.68	*1,277*	2.6	*589*	3.5	*786*	3.9	*884*
		120	*4 3/4"*	120	*4 3/4"*	3 - Ø7.5 x 115		5.68	*1,277*	2.6	*589*	3.5	*786*	3.9	*884*
120	*4 3/4"*	80	*3 1/8"*	160	*6 1/4"*	3 - Ø7.5 x 75	22	13.8	*3,107*	6.4	*1,434*	8.5	*1,912*	9.6	*2,151*
		120	*4 3/4"*	160	*6 1/4"*	4 - Ø7.5 x 115		13.8	*3,107*	6.4	*1,434*	8.5	*1,912*	9.6	*2,151*
160	*6 1/4"*	100	*4"*	200	*7 7/8"*	4 - Ø7.5 x 95	30	25.1	*5,649*	11.6	*2,607*	15.5	*3,477*	17.4	*3,911*
		120	*4 3/4"*	200	*7 7/8"*	5 - Ø7.5 x 115		25.1	*5,649*	11.6	*2,607*	15.5	*3,477*	17.4	*3,911*
200	*7 7/8"*	100	*4"*	240	*9 1/2"*	5 - Ø7.5 x 95	38	36.9	*8,300*	17.0	*3,831*	22.7	*5,108*	25.6	*5,746*
		120	*4 3/4"*	240	*9 1/2"*	6 - Ø7.5 x 115		39.1	*8,786*	18.0	*4,055*	24.0	*5,406*	27.1	*6,082*
240	*9 1/2"*	120	*4 3/4"*	280	*11"*	7 - Ø7.5 x 115	46	55.2	*12,400*	25.5	*5,723*	33.9	*7,631*	38.2	*8,585*
		140	*5 1/2"*	280	*11"*	8 - Ø7.5 x 135		55.2	*12,400*	25.5	*5,723*	33.9	*7,631*	38.2	*8,585*
280*	*11"*	140	*5 1/2"*	320	*12 5/8"*	8 - Ø7.5 x 135	54	71.2	*16,006*	32.9	*7,388*	43.8	*9,850*	49.3	*11,081*
		160	*6 1/4"*	320	*12 5/8"*	9 - Ø7.5 x 155		72.9	*16,384*	33.6	*7,562*	44.8	*10,083*	50.5	*11,343*
320*	*12 5/8"*	160	*6 1/4"*	360	*14 1/4"*	9 - Ø7.5 x 155	62	88.4	*19,871*	40.8	*9,171*	54.4	*12,228*	61.2	*13,757*
		180	*7 1/8"*	360	*14 1/4"*	10 - Ø7.5 x 175		91.8	*20,640*	42.4	*9,526*	56.5	*12,701*	63.6	*14,289*
360*	*14 1/4"*	160	*6 1/4"*	400	*15 3/4"*	10 - Ø7.5 x 155	70	98.2	*22,078*	45.3	*10,190*	60.4	*13,587*	68.0	*15,285*
		180	*7 1/8"*	400	*15 3/4"*	11 - Ø7.5 x 175		111.6	*25,093*	51.5	*11,581*	68.7	*15,442*	77.3	*17,372*
400*	*15 3/4"*	160	*6 1/4"*	440	*17 1/4"*	11 - Ø7.5 x 155	78	108.0	*24,286*	49.9	*11,209*	66.5	*14,945*	74.8	*16,813*
		180	*7 1/8"*	440	*17 1/4"*	12 - Ø7.5 x 175		129.6	*29,142*	59.8	*13,450*	79.8	*17,934*	89.7	*20,175*

02 - ALUMIDI WITH HOLES: FIXING THROUGH NAILS

						SECONDARY BEAM	MAIN BEAM	CHARACTERISTIC VALUES		DESIGN VALUES (FACTORED RESISTANCE)					
H		b_{NT}		h_{NT}		dowels STA [3] Ø12	nails LBA Ø4 x 60	$R_{V,k}$		$R_{V,d}$ Load Case 1		$R_{V,d}$ Load Case 2&3		$R_{V,d}$ Load Case 4&5	
[mm]	*[inch]*	[mm]	*[inch]*	[mm]	*[inch]*	[pcs - Ø x L]	[pcs]	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*
120	*4 3/4"*	120	*4 3/4"*	160	*6 1/4"*	3 - Ø12 x 120	22	13.8	*3,107*	6.4	*1,434*	8.5	*1,912*	9.6	*2,151*
160	*6 1/4"*	120	*4 3/4"*	200	*7 7/8"*	4 - Ø12 x 120	30	25.1	*5,649*	11.6	*2,607*	15.5	*3,477*	17.4	*3,911*
200	*7 7/8"*	120	*4 3/4"*	240	*9 1/2"*	5 - Ø12 x 120	38	39.1	*8,786*	18.0	*4,055*	24.0	*5,406*	27.1	*6,082*
240	*9 1/2"*	120	*4 3/4"*	280	*11"*	6 - Ø12 x 120	46	55.2	*12,400*	25.5	*5,723*	33.9	*7,631*	38.2	*8,585*
280	*11"*	140	*5 1/2"*	320	*12 5/8"*	7 - Ø12 x 140	54	72.9	*16,384*	33.6	*7,562*	44.8	*10,083*	50.5	*11,343*
320	*12 5/8"*	140	*5 1/2"*	360	*14 1/4"*	8 - Ø12 x 140	62	91.8	*20,640*	42.4	*9,526*	56.5	*12,701*	63.6	*14,289*
360	*14 1/4"*	160	*6 1/4"*	400	*15 3/4"*	9 - Ø12 x 160	70	111.6	*25,093*	51.5	*11,581*	68.7	*15,442*	77.3	*17,372*
400*	*15 3/4"*	160	*6 1/4"*	440	*17 1/4"*	10 - Ø12 x 160	78	132.0	*29,684*	60.9	*13,700*	81.3	*18,267*	91.4	*20,550*

* dimension obtainable from ALUMIDI2200



01 - ALUMIDI WITHOUT HOLES: FIXING THROUGH SCREWS

						SECONDARY BEAM	MAIN BEAM	CHARACTERISTIC VALUES		DESIGN VALUES (FACTORED RESISTANCE)					
H		b_{NT}		h_{NT}		dowels SBD [2] Ø7.5	screws LBS Ø5 x 60	$R_{V,k}$		$R_{V,d}$ Load Case 1		$R_{V,d}$ Load Case 2&3		$R_{V,d}$ Load Case 4&5	
[mm]	*[inch]*	[mm]	*[inch]*	[mm]	*[inch]*	[pcs - Ø x L]	[pcs]	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*
80	*3 1/8"*	80	*3 1/8"*	120	*4 3/4"*	2 - Ø7.5 x 75	14	11.44	*2,572*	5.3	*1,187*	7.0	*1,583*	7.9	*1,780*
		120	*4 3/4"*	120	*4 3/4"*	3 - Ø7.5 x 115		11.44	*2,572*	5.3	*1,187*	7.0	*1,583*	7.9	*1,780*
120	*4 3/4"*	80	*3 1/8"*	160	*6 1/4"*	3 - Ø7.5 x 75	22	20.8	*4,681*	9.6	*2,160*	12.8	*2,880*	14.4	*3,240*
		120	*4 3/4"*	160	*6 1/4"*	4 - Ø7.5 x 115		26.3	*5,919*	12.2	*2,732*	16.2	*3,643*	18.2	*4,098*
160	*6 1/4"*	100	*4"*	200	*7 7/8"*	4 - Ø7.5 x 95	30	29.5	*6,641*	13.6	*3,065*	18.2	*4,087*	20.5	*4,598*
		120	*4 3/4"*	200	*7 7/8"*	5 - Ø7.5 x 115		40.4	*9,073*	18.6	*4,188*	24.8	*5,584*	27.9	*6,282*
200	*7 7/8"*	100	*4"*	240	*9 1/2"*	5 - Ø7.5 x 95	38	36.9	*8,300*	17.0	*3,831*	22.7	*5,108*	25.6	*5,746*
		120	*4 3/4"*	240	*9 1/2"*	6 - Ø7.5 x 115		48.4	*10,887*	22.4	*5,025*	29.8	*6,700*	33.5	*7,537*
240	*9 1/2"*	120	*4 3/4"*	280	*11"*	7 - Ø7.5 x 115	46	56.5	*12,702*	26.1	*5,862*	34.8	*7,816*	39.1	*8,793*
		140	*5 1/2"*	280	*11"*	8 - Ø7.5 x 135		71.2	*16,006*	32.9	*7,388*	43.8	*9,850*	49.3	*11,081*
280*	*11"*	140	*5 1/2"*	320	*12 5/8"*	8 - Ø7.5 x 135	54	71.2	*16,006*	32.9	*7,388*	43.8	*9,850*	49.3	*11,081*
		160	*6 1/4"*	320	*12 5/8"*	9 - Ø7.5 x 155		88.4	*19,871*	40.8	*9,171*	54.4	*12,228*	61.2	*13,757*
320*	*12 5/8"*	160	*6 1/4"*	360	*14 1/4"*	9 - Ø7.5 x 155	62	88.4	*19,871*	40.8	*9,171*	54.4	*12,228*	61.2	*13,757*
		180	*7 1/8"*	360	*14 1/4"*	10 - Ø7.5 x 175		108.0	*24,284*	49.9	*11,208*	66.5	*14,944*	74.8	*16,812*
360*	*14 1/4"*	160	*6 1/4"*	400	*15 3/4"*	10 - Ø7.5 x 155	70	98.2	*22,078*	45.3	*10,190*	60.4	*13,587*	68.0	*15,285*
		180	*7 1/8"*	400	*15 3/4"*	11 - Ø7.5 x 175		118.8	*26,714*	54.8	*12,330*	73.1	*16,439*	82.3	*18,494*
400*	*15 3/4"*	160	*6 1/4"*	440	*17 1/4"*	11 - Ø7.5 x 155	78	108.0	*24,286*	49.9	*11,209*	66.5	*14,945*	74.8	*16,813*
		180	*7 1/8"*	440	*17 1/4"*	12 - Ø7.5 x 175		129.6	*29,142*	59.8	*13,450*	79.8	*17,934*	89.7	*20,175*

02 - ALUMIDI WITH HOLES: FIXING THROUGH SCREWS

						SECONDARY BEAM	MAIN BEAM	CHARACTERISTIC VALUES		DESIGN VALUES (FACTORED RESISTANCE)					
H		b_{NT}		h_{NT}		dowels STA [3] Ø12	screws LBS Ø5 x 60	$R_{V,k}$		$R_{V,d}$ Load Case 1		$R_{V,d}$ Load Case 2&3		$R_{V,d}$ Load Case 4&5	
[mm]	*[inch]*	[mm]	*[inch]*	[mm]	*[inch]*	[pcs - Ø x L]	[pcs]	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*
120	*4 3/4"*	120	*4 3/4"*	160	*6 1/4"*	3 - Ø12 x 120	22	26.3	*5,919*	12.2	*2,732*	16.2	*3,643*	18.2	*4,098*
160	*6 1/4"*	120	*4 3/4"*	200	*7 7/8"*	4 - Ø12 x 120	30	44.8	*10,074*	20.7	*4,649*	27.6	*6,199*	31.0	*6,974*
200	*7 7/8"*	120	*4 3/4"*	240	*9 1/2"*	5 - Ø12 x 120	38	57.3	*12,891*	26.5	*5,949*	35.3	*7,933*	39.7	*8,924*
240	*9 1/2"*	120	*4 3/4"*	280	*11"*	6 - Ø12 x 120	46	68.8	*15,467*	31.8	*7,139*	42.3	*9,518*	47.6	*10,708*
280	*11"*	140	*5 1/2"*	320	*12 5/8"*	7 - Ø12 x 140	54	88.1	*19,803*	40.7	*9,140*	54.2	*12,187*	61.0	*13,710*
320	*12 5/8"*	140	*5 1/2"*	360	*14 1/4"*	8 - Ø12 x 140	62	100.7	*22,634*	46.5	*10,446*	62.0	*13,928*	69.7	*15,670*
360	*14 1/4"*	160	*6 1/4"*	400	*15 3/4"*	9 - Ø12 x 160	70	124.2	*27,919*	57.3	*12,886*	76.4	*17,181*	86.0	*19,329*
400*	*15 3/4"*	160	*6 1/4"*	440	*17 1/4"*	10 - Ø12 x 160	78	138.0	*31,019*	63.7	*14,317*	84.9	*19,089*	95.5	*21,475*

ALUMAXI

CE
ETA 09/0361

CONCEALED BEAM HANGER WITH AND WITHOUT HOLES

SUPERIOR STRENGTH STANDARD
Standard connection system developed to guarantee higher values of design strength. All values are calculated and certified.

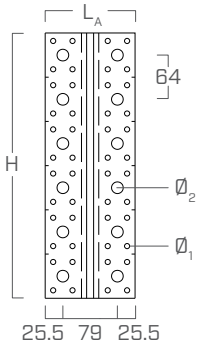
STEEL - ALUMINUM
EN AW-6005A high strength aluminum alloy, obtained by extrusion thus weld-free.

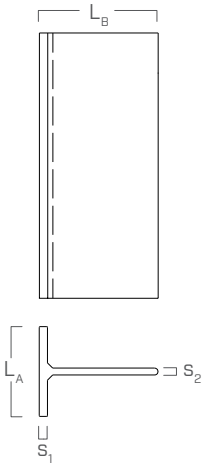
SPARES MANAGEMENT
Versions without holes available in 2176 mm long pieces with notches every 64 mm, to be cut onsite according to the worksite needs.

VIDEO

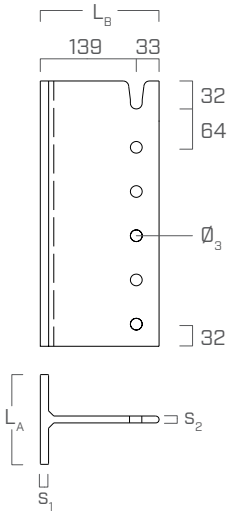
MY PROJECT SOFTWARE

ALUMAXI WITHOUT HOLES





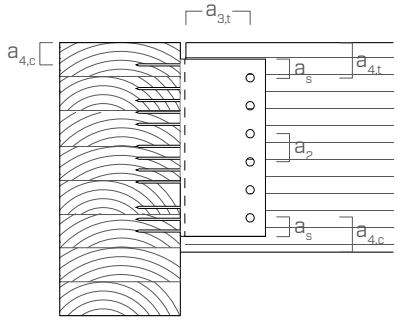
ALUMAXI WITH HOLES



GEOMETRY

			ALUMAXI without holes	ALUMAXI with holes
Flange thickness	s_1	[mm]	12	12
		[inch]	*15/32"*	*15/32"*
Web thickness	s_2	[mm]	10	10
		[inch]	*25/64"*	*25/64"*
Flange width	L_A	[mm]	130	130
		[inch]	*5 1/8"*	*5 1/8"*
Web length	L_B	[mm]	172	172
		[inch]	*6 49/64"*	*6 49/64"*
Small flange-holes	$Ø_1$	[mm]	7.5	7.5
		[inch]	*19/64"*	*19/64"*
Large flange-holes	$Ø_2$	[mm]	17.0	17.0
		[inch]	*43/64"*	*43/64"*
Web holes (dowels)	$Ø_3$	[mm]	-	17.0
		[inch]	-	*43/64"*

INSTALLATION: MINIMUM DISTANCES



SECONDARY BEAM - TIMBER				smooth dowel STA Ø16
Dowel - Dowel	a_2	[mm] *[inch]*	≥ 3 d	≥ 48 *≥ 57/64"*
Dowel - Beam extrados	$a_{4,t}$	[mm] *[inch]*	≥ 4 d	≥ 64 *≥ 2 33/64"*
Dowel - Beam intrados	$a_{4,c}$	[mm] *[inch]*	≥ 3 d	≥ 48 *≥ 57/64"*
Dowel - Beam end	$a_{3,t}$	[mm] *[inch]*	≥ {7d; 80}	≥ 112 *≥ 4 13/32"*
Dowel - Bracket edge	a_s	[mm] *[inch]*	≥ 1.2 d_0 (1)	≥ 21 *≥ 4 53/64"*

MAIN BEAM - TIMBER				anker nail LBA Ø6
First connector – Beam extrados	$a_{4,c}$	[mm] *[inch]*	≥ 5 d	≥ 30 *≥ 1 3/16"*

GENERAL PRINCIPLES:

The characteristic values comply with the EN 1995:2008 standard in accordance with ETA-09/0361.

Design values for wood-side are obtained from characteristic values as follows: $R_d = R_k \cdot DMF$
DMF: design modification factor based on k_{mod} (modification factor according to EN 1995-1-1) and for γ_M (partial factors for material properties and resistances according to EN 1995-1-1 - M = 1.3)

Load case	Load Combination Principal Load	Load Combination Companion Load	Design Modification Factor DMF
1	1.4D	-	**0.46**
2	(1.25D or 0.9D) + 1.5L	1.0S or 0.4W	**0.62** *
3	(1.25D or 0.9D) + 1.5S	1.0L or 0.4W	**0.62**
4	(1.25D or 0.9D) + 1.4W	0.5L or 0.5S	**0.69**
5	1.0D + 1.0E	0.5L or 0.25S	**0.69**

** If Live Load L is associated with long term loads such as storage, equipment areas etc., use 0.54*

In the calculations, the density of the wood elements was considered equal to ρ_k = 370 kg/m^3 (S-P-F sawn lumber). Wood densities conversion (mean ovendry relative density to 5th-percentile density 12% MC wt & vol) as proposed in chapter 4. of Wood Handbook. Characteristic resistances can also be considered as valid for higher densities, for the purposes of safety

All strength values of the connection system are valid for the calculation hypotheses listed in the table. For different configurations the free software myProject is available (www.rothoblaas.com)

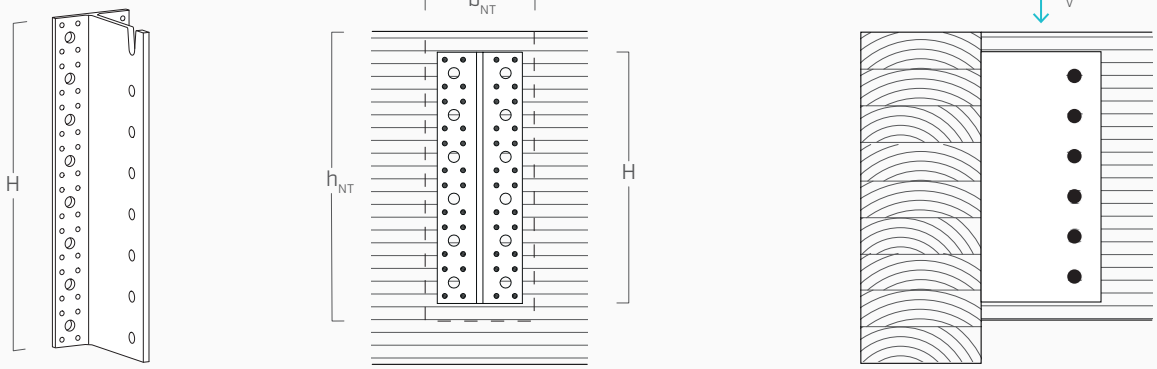
Sizing and verification of wood elements must be done separately. In some cases the connection shear strength $R_{V,k}$ is notably hight and may be higher than the secondary joist shear strength. Particular attention should be paid to the shear stess of the reduced timber crossection in correspondence with the bracket location

NOTES:

(1) Hole diameter

(2) Smooth dowels STA Ø16 ($f_{u,k}$ = 470 N/mm^2.

STATIC VALUES - TIMBER-TO-TIMBER JOINT - RIGHT ANGLE - TOTAL NAILING



						SECONDARY BEAM	MAIN BEAM	CHARACTERISTIC VALUES		DESIGN VALUES (FACTORED RESISTANCE)					
H		b_{NT}		h_{NT}		dowels STA [2] Ø16	nails LBA Ø6 x 100	$R_{V,k}$		$R_{V,d}$ Load Case 1		$R_{V,d}$ Load Case 2&3		$R_{V,d}$ Load Case 4&5	
[mm]	*[inch]*	[mm]	*[inch]*	[mm]	*[inch]*	[pcs - Ø x L]	[pcs]	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*	[kN]	*[lbf]*
384	*15 1/8"*	160	*6 1/4"*	432	*17"*	6 - Ø16 x 160	48	126.7	*28,474*	58.5	*13,142*	77.9	*17,523*	87.7	*19,713*
448*	*17 5/8"*	160	*6 1/4"*	496	*19 4/8"*	7 - Ø16 x 160	56	158.0	*35,515*	72.9	*16,392*	97.2	*21,856*	109.4	*24,588*
512	*20 3/16"*	160	*6 1/4"*	560	*22 1/16"*	8 - Ø16 x 160	64	180.5	*40,587*	83.3	*18,732*	111.1	*24,977*	125.0	*28,099*
576*	*22 11/16"*	160	*6 1/4"*	624	*24 9/16"*	9 - Ø16 x 160	72	203.1	*45,661*	93.7	*21,074*	125.0	*28,099*	140.6	*31,611*
640	*25 3/16"*	160	*6 1/4"*	688	*27 1/16"*	10 - Ø16 x 160	80	225.7	*50,735*	104.2	*23,416*	138.9	*31,221*	156.2	*35,124*
704*	*27 11/16"*	160	*6 1/4"*	752	*29 10/16"*	11 - Ø16 x 160	88	248.3	*55,809*	114.6	*25,758*	152.8	*34,344*	171.9	*38,637*
768	*30 1/4"*	160	*6 1/4"*	816	*32 1/4"*	12 - Ø16 x 160	96	270.8	*60,883*	125.0	*28,100*	166.7	*37,466*	187.5	*42,150*
832*	*32 3/4"*	160	*6 1/4"*	880	*34 3/4"*	13 - Ø16 x 160	104	293.4	*65,954*	135.4	*30,441*	180.5	*40,587*	203.1	*45,661*
896*	*35 1/4"*	160	*6 1/4"*	944	*37 1/4"*	14 - Ø16 x 160	112	316.0	*71,028*	145.8	*32,782*	194.4	*43,710*	218.7	*49,173*
960*	*37 13/16"*	160	*6 1/4"*	1008	*39 11/16"*	15 - Ø16 x 160	120	322.3	*72,447*	148.7	*33,437*	198.3	*44,583*	223.1	*50,156*

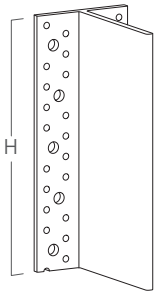
* dimension obtainable from ALUMAXI2176L or ALUMAXI2176

ALUMIDI

CODES AND DIMENSIONS

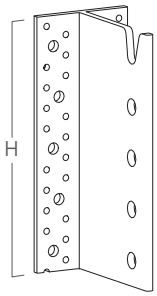
ALUMIDI WITHOUT HOLES

CODE	type	H [mm]	*H [inch]*	pcs.
ALUMIDI80	without holes	80	*3 1/8"*	25
ALUMIDI120	without holes	120	*4 3/4"*	25
ALUMIDI160	without holes	160	*6 1/4"*	25
ALUMIDI200	without holes	200	*7 7/8"*	15
ALUMIDI240	without holes	240	*9 1/2"*	15
ALUMIDI2200	without holes	2200	*86 13/32"*	1



ALUMIDI WITH HOLES

CODE	type	H [mm]	*H [inch]*	pcs.
ALUMIDI120L	with holes	120	*4 3/4"*	25
ALUMIDI160L	with holes	160	*6 1/4"*	25
ALUMIDI200L	with holes	200	*7 7/8"*	15
ALUMIDI240L	with holes	240	*9 1/2"*	15
ALUMIDI280L	with holes	280	*11"*	15
ALUMIDI320L	with holes	320	*12 5/8"*	8
ALUMIDI360L	with holes	360	*14 1/4"*	8

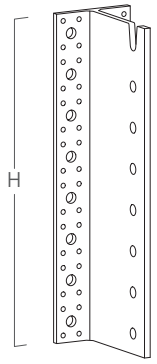


ALUMAXI

CODES AND DIMENSIONS

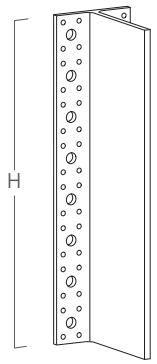
ALUMAXI WITH HOLES

CODE	type	H [mm]	*H [inch]*	pcs.
ALUMAXI384L	with holes	384	*15 1/8"*	1
ALUMAXI512L	with holes	512	*20 3/16"*	1
ALUMAXI640L	with holes	640	*25 3/16"*	1
ALUMAXI768L	with holes	768	*30 1/4"*	1
ALUMAXI2176L	with holes	2176	*85 43/64"*	1



ALUMAXI WITHOUT HOLES

CODE	type	H [mm]	*H [inch]*	pcs.
ALUMAXI2176	without holes	2176	*85 43/64"*	1



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