

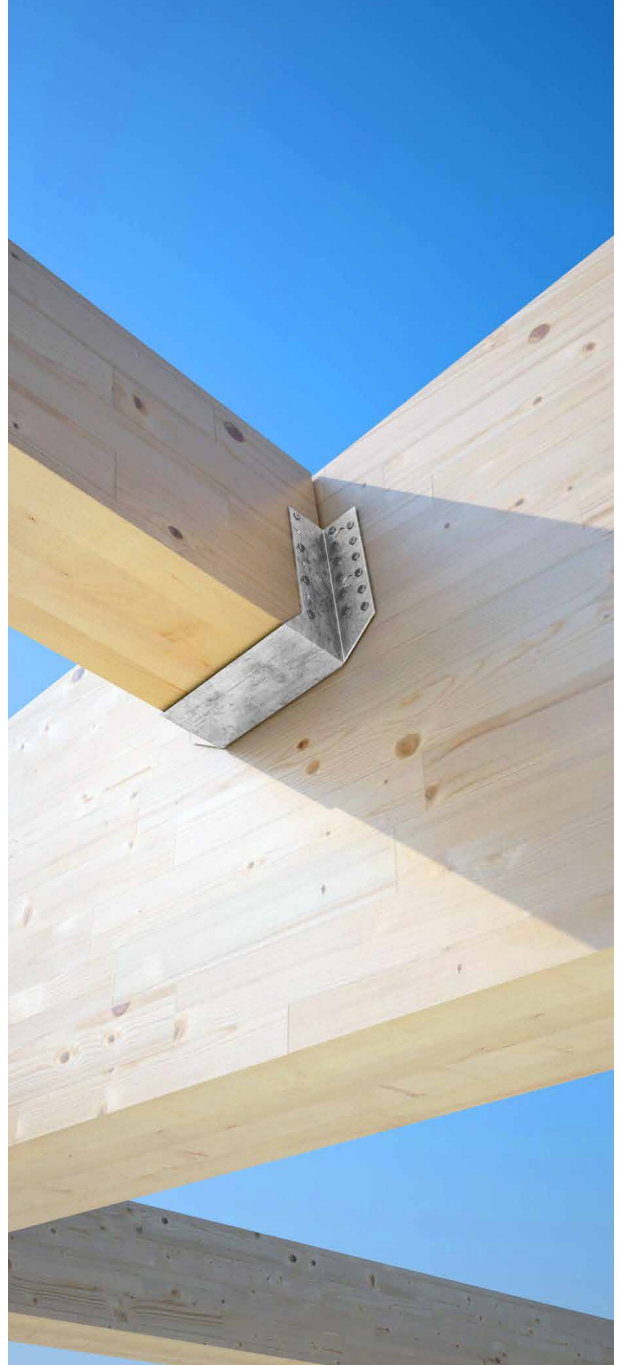
## SCARPA LISCIA ALI ESTERNE SMOOTH SHOE EXTERNAL WINGS

Ideale anche per calcestruzzo  
Also ideal for concrete

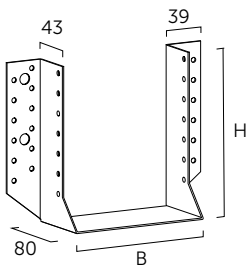
Omologata anche per  
I-Joist e OSB  
Also approved for  
I-Joist and OSB



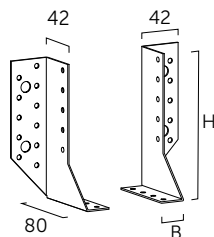
Utilizzabile anche in  
flessione deviata  
Also usable with deviated  
bends



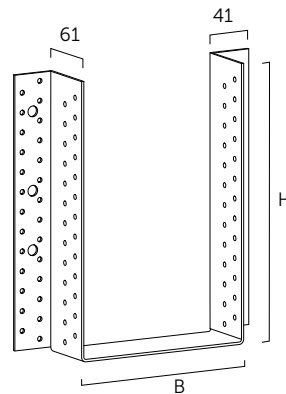
### GEOMETRIA GEOMETRY



BSAS: liscia  
smooth



BSAD: 2 pezzi\*  
2 pieces\*

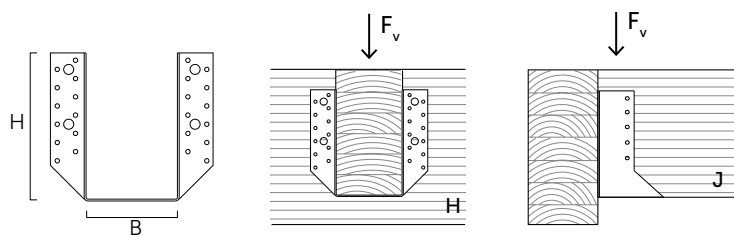


BSAG: grande misura  
large size

### MATERIALE / MATERIAL


Acciaio al carbonio S250 GD con zincatura Z275.  
Z275 bright zinc plated S250 GD carbon steel.

CODICI E DIMENSIONI  
CODES AND DIMENSIONS




## BSAS

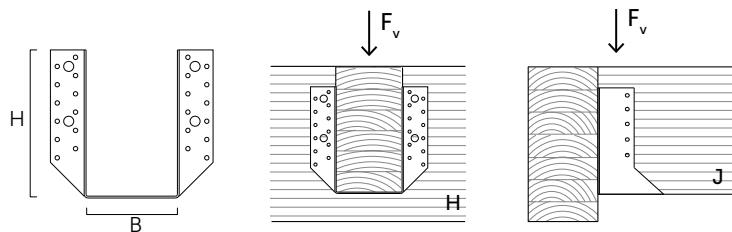
GIUNZIONE LEGNO-LEGNO  
TIMBER-TO-TIMBER JOINT

CODICE CODE		B [mm]	H [mm]	s [mm]	chiodi Anker LBA Anker nail LBA Ø x L [mm]	numero chiodi nail number n <sub>H</sub> <sup>(1)</sup> [pz/pcs]    n <sub>J</sub> <sup>(2)</sup> [pz/pcs]		VALORI CARATTERISTICI CHARACTERISTIC VALUES R <sub>V,k</sub> [kN]	
BSAS40110	PF201250	40	110	2,0	Ø4 x 40	8	4	8,7	50
BSAS46117	PF201254	46	117	2,0	Ø4 x 40	8	4	9,0	50
BSAS46137	PF201255	46	137	2,0	Ø4 x 40	10	6	11,8	50
BSAS46207	PF201256	46	207	2,0	Ø4 x 40	14	8	16,9	25
BSAS5070	PF201253	50	70	2,0	Ø4 x 40	4	2	3,6	50
BSAS51105	PF201257	51	105	2,0	Ø4 x 40	8	4	8,1	50
BSAS51135	PF201260	51	135	2,0	Ø4 x 40	10	6	11,5	50
HT60100KE	-	60	100	2,0	Ø4 x 40	14	8	13	50
BSAS64128	PF201273	64	128	2,0	Ø4 x 40	18	10	19,2	50
BSAS64158	PF201263	64	158	2,0	Ø4 x 40	22	12	26,3	50
BSAS70125	PF901390	70	125	2,0	Ø4 x 40	18	10	18,6	50
BSAS70155	PF201285	70	155	2,0	Ø4 x 40	22	12	26,3	50
BSAS7690	PF201280	76	90	2,0	Ø4 x 40	12	6	10,4	25
BSAS76152	PF201287	76	152	2,0	Ø4 x 40	22	12	26,3	50
HT80120KE	-	80	120	2,0	Ø4 x 40	18	10	17,5	50
BSAS80140	PF201310	80	140	2,0	Ø4 x 40	20	10	22,5	50
BSAS80150	PF202024	80	150	2,0	Ø4 x 40	22	12	26,3	50
BSAS80180	PF202028	80	180	2,0	Ø4 x 40	26	14	30	25
BSAS80210	PF201315	80	210	2,0	Ø4 x 40	30	16	33,8	25
BSAS90145	PF901395	90	145	2,0	Ø4 x 40	22	12	25,7	50
BSAS92184	PF201320	92	184	2,0	Ø4 x 40	26	14	30	25
HT10090KE	-	100	90	2,0	Ø4 x 60	12	6	15,2	50
BSAS100120	-	100	120	2,0	Ø4 x 60	18	10	27,1	50
HT100140KE	-	100	140	2,0	Ø4 x 60	22	12	33,1	50
BSAS100160	PF201325	100	160	2,0	Ø4 x 60	24	12	33,1	50
BSAS100170	PF201326	100	170	2,0	Ø4 x 60	26	14	37,8	25
BSAS100200	PF201330	100	200	2,0	Ø4 x 60	30	16	42,5	25
BSAS120120	PF201335	120	120	2,0	Ø4 x 60	18	10	27,1	25
HT120160KE	-	120	160	2,0	Ø4 x 60	26	14	37,8	25
BSAS120190	PF201345	120	190	2,0	Ø4 x 60	30	16	42,5	25
BSAS140140	PF201350	140	140	2,0	Ø4 x 60	22	12	33,1	25
BSAS140160	PF201355	140	160	2,0	Ø4 x 60	26	14	37,8	25
BSAS140180	PF901360	140	180	2,0	Ø4 x 60	30	16	42,5	25

## BSAD\*

CODICE CODE	B [mm]	H [mm]	s [mm]	
BSAD25100	PF203005	25	100	25
BSAD25140	PF203010	25	140	25
BSAD25180	PF203015	25	180	25

\*NO CE  
\*NO CE



## BSAG

GIUNZIONE LEGNO-LEGNO  
TIMBER-TO-TIMBER JOINT

CODICE CODE	B [mm]	H [mm]	s [mm]	chiodi Anker LBA Anker nail LBA	numero chiodi nail number		VALORI CARATTERISTICI CHARACTERISTIC VALUES		
				Ø x L [mm]	n <sub>H</sub> <sup>(1)</sup> [pz/pcs]	n <sub>J</sub> <sup>(2)</sup> [pz/pcs]	R <sub>v,k</sub> [kN]		
BSAG100240	PF201400	100	240	2,5	Ø4 x 60	46	30	75,6	20
BSAG100280	PF201405	100	280	2,5	Ø4 x 60	54	34	85,1	20
BSAG120240	PF201410	120	240	2,5	Ø4 x 60	46	30	75,6	20
BSAG120280	PF201415	120	280	2,5	Ø4 x 60	54	34	85,1	20
BSAG140240	PF201420	140	240	2,5	Ø4 x 60	46	30	75,6	20
BSAG140280	PF201425	140	280	2,5	Ø4 x 60	54	34	85,1	20
BSAG160160	PF201430	160	160	2,5	Ø4 x 60	30	18	41,6	15
BSAG160200	PF201435	160	200	2,5	Ø4 x 60	38	22	56,7	15
BSAG160240	PF201440	160	240	2,5	Ø4 x 60	46	30	75,6	15
BSAG160280	PF201445	160	280	2,5	Ø4 x 60	54	34	85,1	15
BSAG160320	PF201450	160	320	2,5	Ø4 x 60	62	38	94,6	15
BSAG180220	PF201455	180	220	2,5	Ø4 x 60	42	26	66,2	10
BSAG180280	PF201460	180	280	2,5	Ø4 x 60	54	34	85,1	10
BSAG200200	PF201465	200	200	2,5	Ø4 x 60	38	22	56,7	10
BSAG200240	PF201470	200	240	2,5	Ø4 x 60	46	30	75,6	10

### NOTE NOTES

- <sup>(1)</sup> n<sub>H</sub> numero di fissaggi sulla trave principale  
number of fasteners on the main beam
- <sup>(2)</sup> n<sub>J</sub> numero di fissaggi sulla trave secondaria  
number of fasteners on the secondary joist

### PRINCIPI GENERALI GENERAL PRINCIPLES

- I valori caratteristici sono in accordo a ETA.  
Characteristic values according to ETA.
- I valori di progetto si ricavano dai valori caratteristici come segue:  
Design values can be obtained from characteristic values as follows:

$$R_d = \frac{R_{v,k} \cdot k_{mod}}{\gamma_m}$$

- I coefficienti  $\gamma_m$  e  $k_{mod}$  sono da assumersi in funzione della normativa vigente utilizzata per il calcolo.  
The coefficients  $\gamma_m$  and  $k_{mod}$  should be taken according to the current regulations used for the calculation.
- In fase di calcolo si è considerata una massa volumica degli elementi lignei pari a  $\rho_k = 350 \text{ kg/m}^3$ .  
The calculation process used a timber characteristic density of  $\rho_k = 350 \text{ kg/m}^3$ .