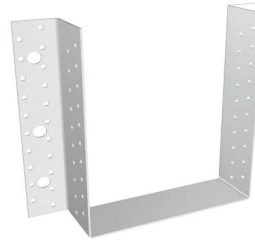


# SCARPE GRANDI MISURA AD ALI ESTERNE

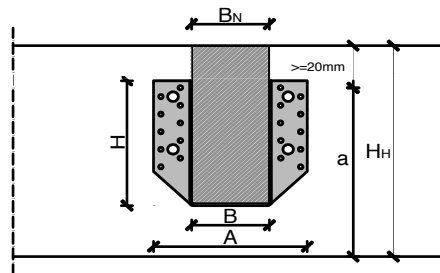
Certificazioni Marcatura CE: ETA-08/0264  
Zulassung Z-9.1-65

Materiale S250 GD + Z275  
Spessore 2,5 mm

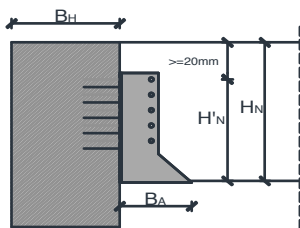


## Geometria

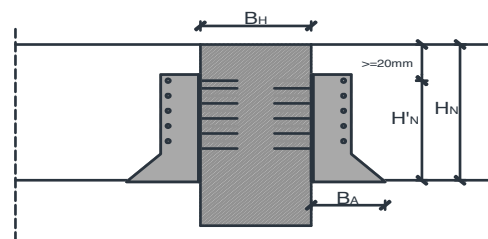
Codice	DIMENSIONI SCARPE					DIMENSIONI TRAVI			
	Larghezza scarpa	Altezza scarpa	Larghezza con ali scarpa	Primo chiodo	Lunghezza appoggio	Altezza trave secondaria $H_N$		Larghezza trave principale $B_{H,MIN}$ [mm]	
	B [mm]	H [mm]	A [mm]	$H'_N$ [mm]	$B_A$ [mm]	min [mm]	max [mm]	scarpa su un lato	scarpa su due lati
200 101 100 240	100	240	182	232	61	252	360	100	124
200 101 100 280	100	280	182	272	61	292	420	100	124
200 101 120 240	120	240	202	232	61	252	360	120	124
200 101 120 280	120	280	202	272	61	292	420	120	124
200 101 140 240	140	240	222	232	61	252	360	140	124
200 101 140 280	140	280	222	272	61	292	420	140	124
200 101 160 160	160	160	242	152	61	172	240	160	124
200 101 160 200	160	200	242	192	61	212	300	160	124
200 101 160 240	160	240	242	232	61	252	360	160	124
200 101 160 280	160	280	242	272	61	292	420	160	124
200 101 160 320	160	320	242	312	61	332	480	160	124
200 101 180 280	180	220	262	212	61	232	330	180	124
200 101 200 200	180	280	262	272	61	292	420	180	124
200 101 200 240	200	200	282	192	61	212	300	200	124



Geometria - Vista frontal



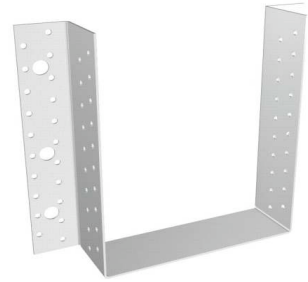
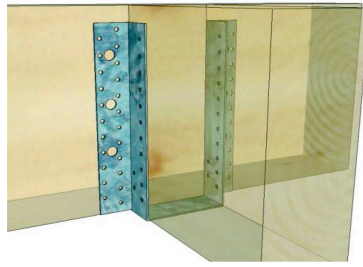
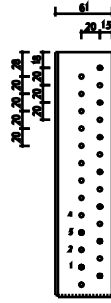
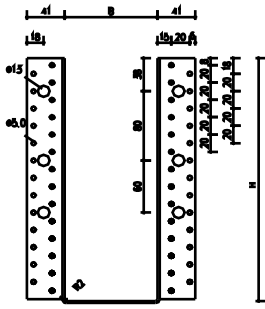
Vista laterale - Collegamento su 1 l



Vista laterale - Collegamento su 2 l

# SCARPE GRANDI MISURA AD ALI ESTERNE

## GIUNZIONE LEGNO - LEGNO



- = Chiodatura parziale
- +○ = Chiodatura totale

Nella trave secondaria, la chiodatura della prima fila è da effettuarsi soltanto in corrispondenza degli ultimi 4 fori numerati in figura

DIMENSIONI SCARPA		Chiodatura totale			VALORI CARATTERISTICI Chiodi Anker				VALORI CARATTERISTICI Viti			
B [mm]	H [mm]	n <sub>H</sub> Ø5	n <sub>H</sub> Ø13	n <sub>N</sub> Ø5	Chiodo d <sub>n</sub> x l <sub>n</sub>	F <sub>Z,Rk</sub> ↓ [kN]	F <sub>Z,Rk</sub> ↑ [kN]	F <sub>Y,Rk</sub> ← [kN]	Vite Ø5 d <sub>n</sub> x l <sub>n</sub>	F <sub>Z,Rk</sub> ↓ [kN]	F <sub>Z,Rk</sub> ↑ [kN]	F <sub>Y,Rk</sub> ← [kN]
100	240	46	6	30	4,0 x 60	63,10	59,15	20,23	5,0 x 50	72,22	67,71	25,80
100	280	54	6	34	4,0 x 60	70,98	67,04	20,55	5,0 x 50	81,25	76,73	25,59
120	240	46	6	30	4,0 x 60	63,10	59,15	23,09	5,0 x 50	72,22	67,71	30,57
120	280	54	6	34	4,0 x 60	70,98	67,04	23,67	5,0 x 50	81,25	76,73	30,42
140	240	46	6	30	4,0 x 60	63,10	59,15	25,53	5,0 x 50	72,22	67,71	35,16
140	280	54	6	34	4,0 x 60	70,98	67,04	26,42	5,0 x 50	81,25	76,73	35,09
160	160	30	4	18	4,0 x 60	36,80	35,49	19,38	5,0 x 50	45,14	40,62	31,20
160	200	38	6	22	4,0 x 60	47,32	43,38	21,89	5,0 x 50	54,16	49,65	32,97
160	240	46	6	30	4,0 x 60	63,10	59,15	27,60	5,0 x 50	72,22	67,71	39,54
160	280	54	6	34	4,0 x 60	70,98	67,04	30,89	5,0 x 50	81,25	76,73	43,94
160	320	62	6	38	4,0 x 60	78,87	74,93	29,72	5,0 x 50	90,27	85,76	39,57
180	220	42	6	26	4,0 x 60	55,21	51,27	26,35	5,0 x 50	63,19	58,68	40,26
180	280	54	6	34	4,0 x 60	70,98	67,04	30,89	5,0 x 50	81,25	76,73	43,94
200	200	38	6	22	4,0 x 60	47,32	43,38	24,04	5,0 x 50	54,16	49,65	39,31
200	240	46	6	30	4,0 x 60	63,10	59,15	30,83	5,0 x 50	72,22	67,71	47,63

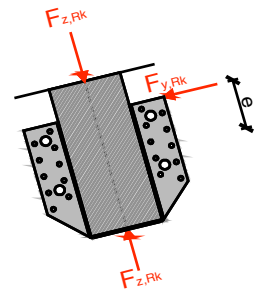
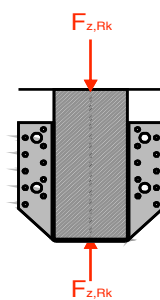
DIMENSIONI SCARPA		Chiodatura parziale			VALORI CARATTERISTICI Chiodi Anker				VALORI CARATTERISTICI Viti			
B [mm]	H [mm]	n <sub>H</sub> Ø5	n <sub>H</sub> Ø13	n <sub>N</sub> Ø5	Chiodo d <sub>n</sub> x l <sub>n</sub>	F <sub>Z,Rk</sub> ↓ [kN]	F <sub>Z,Rk</sub> ↑ [kN]	F <sub>Y,Rk</sub> ← [kN]	Vite Ø5 d <sub>n</sub> x l <sub>n</sub>	F <sub>Z,Rk</sub> ↓ [kN]	F <sub>Z,Rk</sub> ↑ [kN]	F <sub>Y,Rk</sub> ← [kN]
100	240	24	-	16	4,0 x 60	35,48	31,55	10,67	5,0 x 50	40,62	36,11	13,57
100	280	28	-	18	4,0 x 60	39,44	35,49	10,79	5,0 x 50	45,14	40,62	13,42
120	240	24	-	16	4,0 x 60	35,48	31,55	12,19	5,0 x 50	40,62	36,11	16,09
120	280	28	-	18	4,0 x 60	39,44	35,49	12,44	5,0 x 50	45,14	40,62	15,96
140	240	24	-	16	4,0 x 60	35,48	31,55	13,49	5,0 x 50	40,62	36,11	18,51
140	280	28	-	18	4,0 x 60	39,44	35,59	13,89	5,0 x 50	45,14	40,62	18,41
160	160	16	-	10	4,0 x 60	18,85	18,34	10,67	5,0 x 50	27,08	22,57	17,02
160	200	20	-	12	4,0 x 60	26,97	23,66	11,86	5,0 x 50	31,60	27,08	17,78
160	240	24	-	16	4,0 x 60	35,48	31,55	14,60	5,0 x 50	40,62	36,11	20,82
160	280	28	-	18	4,0 x 60	39,44	35,49	15,16	5,0 x 50	45,14	40,62	20,78
160	320	32	-	20	4,0 x 60	43,38	39,44	15,57	5,0 x 50	49,65	45,14	20,69
180	220	22	-	14	4,0 x 60	31,21	27,61	14,09	5,0 x 50	36,11	31,60	21,42
180	280	28	-	18	4,0 x 60	39,44	35,49	18,12	5,0 x 50	45,14	40,62	27,54
200	200	20	-	12	4,0 x 60	26,97	23,66	13,05	5,0 x 50	31,60	27,08	21,22
200	240	24	-	16	4,0 x 60	35,48	31,55	17,40	5,0 x 50	40,62	36,11	28,30

### Note

- n<sub>H</sub> = numero di connettori (chiodi/viti Ø5 o tasselli Ø13) sulla trave principale
- n<sub>N</sub> = numero di connettori (chiodi/viti Ø5) sulla trave secondaria
- Valori caratteristici calcolati secondo EN 1995 in accordo a quanto previsto dalla marcatura CE (ETA-08/0264)
- Chiodi anker conformi alla EN 14592
- Viti conformi alla EN 14592 e al documento di omologazione Z-9.1-375
- Le resistenze riportate fanno riferimento rispettivamente a:

- ↓  $F_{Z,Rk}$  [kN] taglio agente in direzione verticale, verso il basso
- ↑  $F_{Z,Rk}$  [kN] taglio agente in direzione verticale, verso l'alto
- ←  $F_{Y,Rk}$  [kN] taglio agente lateralmente

$$\text{Verifica sollecit. biassiale: } \left( \frac{F_{Y,d}}{F_{Y,Rd}} \right)^2 + \left( \frac{F_{Z,d}}{F_{Z,Rd}} \right)^2 \leq 1$$



Sollecitazione monoassial

Sollecitazione biassial