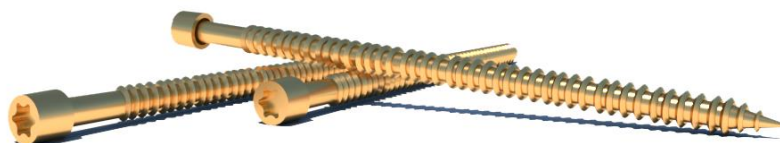


## VITE CARPENTERIA TUTTO FILETTO TSP TC

Materiale	Acciaio al carbonio
Finitura	Zincato spessore $\mu\text{m}$
Classe di servizio	1, 2
Certificazione	ETA-CE
Connessione	Legno/Legno





Impieghi	Comportamento	Caratteristiche
<ul style="list-style-type: none"> <li>Assemblaggio sia di elementi in legno massiccio sia in legno lamellare;</li> <li>Unione di travi sui fianchi per la realizzazione di tetti con displuvio o compluvio;</li> <li>Unione su orditura 1 principale;</li> <li>Unione in diagonale di arcarecci per la realizzazione di tetti a padiglione;</li> <li>Unione di pareti in legno portanti;</li> <li>rinforzi di punti in appoggio.</li> </ul>	<ul style="list-style-type: none"> <li>Le viti per carpenteria a tutto filetto eccellono in:</li> <li>Resistenza all'estrazione;</li> <li>Resistenza al taglio;</li> <li>Resistenza al fuoco;</li> <li>Momento di snervamento;</li> <li>Resistenza al rifollamento.</li> </ul>	<ul style="list-style-type: none"> <li>Connessioni a costi ridotti;</li> <li>Connessioni invisibili;</li> <li>Punta perforante;</li> <li>Filetto mordente dalle alte prestazioni;</li> <li>Inserto molto profondo;</li> <li>Assenza di ponti termici;</li> <li>Conforme alla norma CE EN14592;</li> <li>Zincatura gialla senza cadmio e cromo VI (disponibile dichiarazione del fabbricante);</li> <li>Programma di dimensionamento per professionisti.</li> </ul>

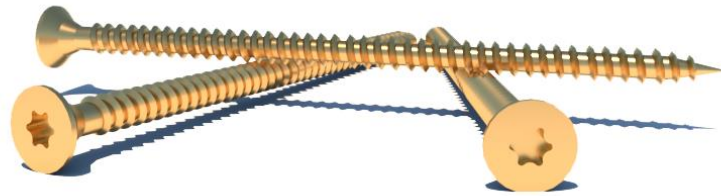
			Diametro delle viti in mm		
			8	10	12
Momento caratteristico di snervamento	$M_{y,k}$	Nm	20,30	36,70	48,50
Resistenza caratteristica alla trazione	$f_{tens,k}$	kN	24,10	40,00	46,70
Resistenza caratteristica alla torsione	$f_{tor,k}$	Nm	25,80	55,00	77,10
Parametro caratteristico di estrazione filetto	$f_{ax,k}$	N/mm <sup>2</sup>	13,10	12,50	11,20
Diametro testa della vite	$\emptyset$	mm	15,00	18,50	20,00
Parametro caratteristico penetrazione testa	$f_{head,k}$	N/mm <sup>2</sup>	17,50	12,20	10,30
Protezione anti-corrosione secondo Eurocodice 5 Classe d'uso	Classe		II	II	II

Valori da certificazione ETA-CE 12/0373

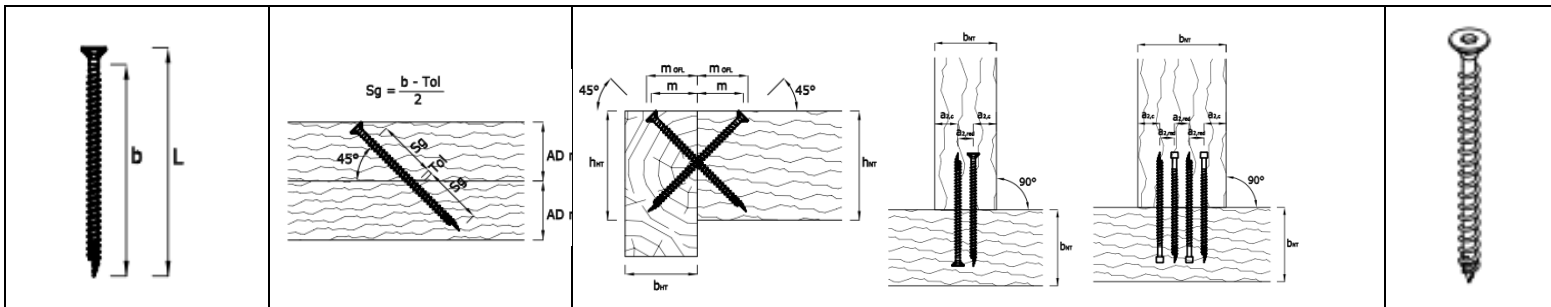



Ø x L [mm]		b [mm]	AD min [mm]	Sg [mm]	Tol [mm]	F <sub>v,R,k</sub> [kN]	h <sub>NTmin</sub> = h <sub>NTmin</sub> [mm]	b <sub>HTmin</sub> [mm]	b <sub>NT min</sub> [mm] Numero coppie			m [m]	mmof L [mm]	F <sub>v,R,k</sub> [kN] Numero coppie			Codice
									1	2	3			1	2	3	
8 x 120	Tx 40	110	51	50	10	3,71	99	60	84	124	164	46	51	7,41	14,32	21,07	SSH6220801207
8 x 140	Tx 40	130	58	60	10	4,44	114	67	84	124	164	53	58	8,89	17,18	25,27	SSH6220801407
8 x 160	Tx 40	150	65	70	10	5,18	128	74	84	124	164	60	65	10,37	20,05	29,49	SSH6220801607
8 x 180	Tx 40	170	72	80	10	5,93	142	81	84	124	164	67	72	11,85	22,91	33,71	SSH6220801807
8 x 200	Tx 40	190	79	90	10	6,67	156	88	84	124	164	74	80	13,34	25,78	37,93	SSH6220802007
8 x 220	Tx 40	210	86	100	10	7,41	170	95	84	124	164	81	87	14,82	28,65	42,15	SSH6220802207
8 x 240	Tx 40	230	93	110	10	8,15	184	102	84	124	164	88	94	16,30	31,05	46,35	SSH6220802407
8 x 260	Tx 40	250	100	120	10	8,89	198	109	84	124	164	96	101	17,26	33,33	49,01	SSH6220802607
8 x 280	Tx 40	270	108	130	10	9,63	213	117	84	124	164	103	108	18,00	34,72	51,00	SSH6220802807
8 x 300	Tx 40	290	115	140	10	10,37	227	124	84	124	164	110	115	18,75	36,10	53,00	SSH6220803007
8 x 350	Tx 40	340	132	165	10	12,23	262	141	84	124	164	127	133	20,60	39,56	57,98	SSH6220803507
8 x 400	Tx 40	390	150	190	10	14,08	297	159	84	124	164	145	150	22,45	43,02	62,96	SSH6220804007
8 x 450	Tx 40	428	172	209	10	15,91	333	177	84	124	164	167	172	23,86	45,64	66,74	SSH6220804507
8 x 500	Tx 40	478	190	234	10	17,04	368	194	84	124	164	185	190	25,41	48,54	70,92	SSH6220805007
8 x 600	Tx 40	578	225	284	10	17,04	439	230	84	124	164	220	225	25,41	48,54	70,92	SSH6220806007
10 x 450	Tx50	426	173	208	10	18,38	333	177	104	155	205	168	174	30,12	57,78	84,63	SSH6221004507
10 x 500	Tx50	476	190	233	10	20,59	368	194	104	155	205	185	192	32,33	61,90	90,56	SSH6221005007
10 x 600	Tx50	576	226	283	10	25,01	439	230	104	155	205	221	227	36,75	70,15	102,44	SSH6221006007
10 x 800	Tx50	776	296	383	10	28,28	580	300	104	155	205	291	298	40,02	76,26	111,24	SSH6221008007
10 x 1000	Tx50	976	367	483	10	28,28	722	371	104	155	205	362	269	40,02	76,26	111,24	SSH6221010007

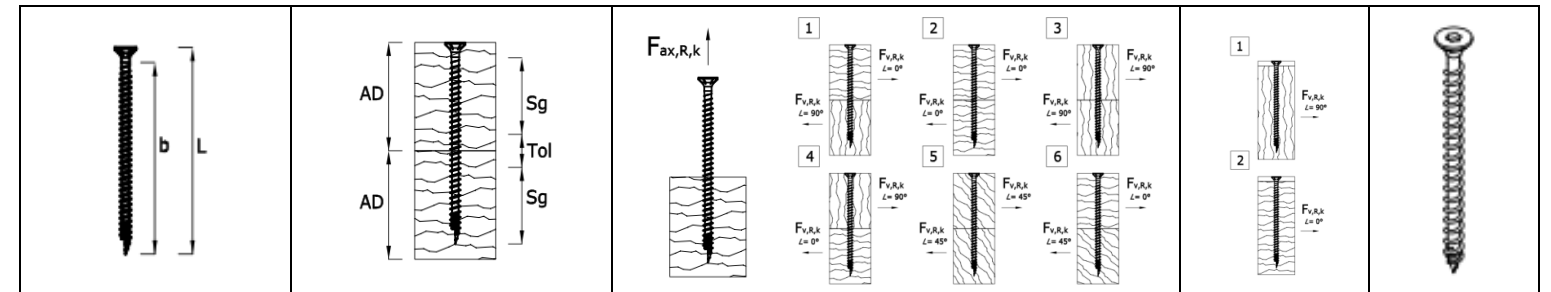
Ø x L [mm]		b [mm]	AD min [mm]	Sg [mm]	Tol [mm]	F <sub>ax,R,k</sub> [kN]	1. F <sub>v,R,k</sub> [kN] α = 90° α = 0°		2. F <sub>v,R,k</sub> [kN] α = 0°		3. F <sub>v,R,k</sub> [kN] α = 90°		4. F <sub>v,R,k</sub> [kN] α = 0° α = 90°		5. F <sub>v,R,k</sub> [kN] α = 45° α = 45°		6. F <sub>v,R,k</sub> [kN] α = 0° α = 45°		7. F <sub>v,R,k</sub> [kN] α = 0° α = 90°		Codice
							1	2	1	2	1	2	1	2	1	2	1	2			
8 x 120	Tx 40	110	65	45	20	4,72	4,36	4,21	4,21	4,55	3,89	4,07	7,64	6,81	SSH6220801207						
8 x 140	Tx 40	130	75	55	20	5,76	4,63	4,47	4,47	4,81	4,22	4,47	8,17	7,33	SSH6220801407						
8 x 160	Tx 40	150	85	65	20	6,81	4,73	5,07	4,48	4,73	4,73	4,89	8,69	7,86	SSH6220801607						
8 x 180	Tx 40	170	95	75	20	7,86	5,00	5,33	4,74	5,00	5,00	5,15	9,22	7,86	SSH6220801807						
8 x 200	Tx 40	190	105	85	20	8,91	5,26	5,59	5,00	5,26	5,26	5,41	9,53	7,86	SSH6220802007						
8 x 220	Tx 40	210	115	95	20	9,96	5,52	5,86	5,27	5,52	5,52	5,67	9,53	7,86	SSH6220802207						
8 x 240	Tx 40	230	125	105	20	11,00	5,78	6,12	5,53	5,78	5,78	5,94	9,53	7,86	SSH6220802407						
8 x 260	Tx 40	250	135	115	20	12,05	6,04	6,38	5,56	6,04	6,04	6,20	9,53	7,86	SSH6220802607						
8 x 280	Tx 40	270	145	125	20	13,10	6,06	6,64	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220802807						
8 x 300	Tx 40	290	155	135	20	14,15	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220803007						
8 x 350	Tx 40	340	180	160	20	16,77	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220803507						
8 x 400	Tx 40	390	205	185	20	19,39	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220804007						
8 x 450	Tx 40	428	236	204	20	21,38	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220804507						
8 x 500	Tx 40	478	261	229	20	24,00	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220805007						
8 x 600	Tx 40	578	311	279	20	24,10	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220806007						
10 x 450	Tx50	426	237	203	20	25,38	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221004507						
10 x 500	Tx50	476	262	228	20	28,50	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221005007						
10 x 600	Tx50	576	312	278	20	34,75	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221006007						
10 x 800	Tx50	776	412	378	20	40,00	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221008007						
10 x 1000	Tx50	976	512	478	20	40,00	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221010007						




Ø x L [mm]		b [mm]	AD min [mm]	Sg [mm]	Tol [mm]	F <sub>v,R,k</sub> [kN]	h <sub>NTmin</sub> = h <sub>NTmin</sub> [mm]	d <sub>HTmin</sub> [mm]	b <sub>NT min</sub> [mm]			m [mm]	mm <sub>OFL</sub> [mm]	F <sub>v,R,k</sub> [kN]			Codice
									Numero coppie					Numero coppie			
									1	2	3			1	2	3	
8 x 120	Tx 40	110	51	50	10	3,71	99	60	84	124	164	46	51	7,41	14,32	21,07	SSH6220801209
8 x 140	Tx 40	130	58	60	10	4,44	114	67	84	124	164	53	58	8,89	17,18	25,27	SSH6220801409
8 x 160	Tx 40	150	65	70	10	5,18	128	74	84	124	164	60	65	10,37	20,05	29,49	SSH6220801609
8 x 180	Tx 40	170	72	80	10	5,93	142	81	84	124	164	67	72	11,85	22,91	33,71	SSH6220801809
8 x 200	Tx 40	190	79	90	10	6,67	156	88	84	124	164	74	80	13,34	25,78	37,93	SSH6220802009
8 x 220	Tx 40	210	86	100	10	7,41	170	95	84	124	164	81	87	14,82	28,65	42,15	SSH6220802209
8 x 240	Tx 40	230	93	110	10	8,15	184	102	84	124	164	88	94	16,30	31,05	46,35	SSH6220802409
8 x 260	Tx 40	250	100	120	10	8,89	198	109	84	124	164	96	101	17,26	33,33	49,01	SSH6220802609
8 x 280	Tx 40	270	108	130	10	9,63	213	117	84	124	164	103	108	18,00	34,72	51,00	SSH6220802809
8 x 300	Tx 40	290	115	140	10	10,73	227	124	84	124	164	110	115	18,75	36,10	53,00	SSH6220803009
8 x 350	Tx 40	340	132	165	10	12,23	262	141	84	124	164	127	133	20,60	39,56	57,98	SSH6220803509
8 x 400	Tx 40	390	150	190	10	14,08	297	159	84	124	164	145	150	22,45	43,02	62,96	SSH6220804009
8 x 450	Tx 40	428	172	209	10	15,91	333	177	84	124	164	167	172	23,86	45,64	66,74	SSH6220804509
8 x 500	Tx 40	478	190	234	10	17,04	368	194	84	124	164	185	190	25,41	48,54	70,92	SSH6220805009
8 x 600	Tx 40	578	225	284	10	17,04	439	230	84	124	164	220	225	25,41	48,54	70,92	SSH6220806009
10 x 160	Tx50	148		69	10	6,10	128	74	105	155	205	61	67	12,19	23,57	34,68	SSH6221001609
10 x 180	Tx50	168	66	79	10	6,98	142	81	105	155	205	68	74	13,96	26,99	39,71	SSH6221001809
10 x 200	Tx50	188	73	89	10	7,86	156	88	105	155	205	75	81	15,73	30,41	44,73	SSH6221002009
10 x 220	Tx50	208	80	99	10	8,75	170	95	105	155	205	82	89	17,50	33,82	48,76	SSH6221002209
10 x 240	Tx50	228	87	109	10	9,63	184	102	105	155	205	89	96	19,27	37,24	54,79	SSH6221002409
10 x 260	Tx50	248	94	119	10	10,51	198	109	105	155	205	96	103	21,03	40,66	59,82	SSH6221002609
10 x 280	Tx50	268	101	129	10	11,40	213	117	105	155	205	103	110	22,80	44,07	64,84	SSH6221002809
10 x 300	Tx50	288	108	139	10	12,28	227	124	105	155	205	110	117	24,02	46,40	68,23	SSH6221003009
10 x 350	Tx50	338	115	164	10	14,50	262	141	105	155	205	128	135	26,23	50,33	74,18	SSH6221003509
10 x 400	Tx50	388	15	189	10	16,70	297	159	105	155	205	146	152	28,44	54,64	80,11	SSH6221004009



Ø x L [mm]		b [mm]	AD min [mm]	Sg [mm]	Tol [mm]	F <sub>v,R,k</sub> [kN]	h <sub>NTmin</sub> = h <sub>NTmin</sub> [mm]	b <sub>HTmin</sub> [mm]	b <sub>NT min</sub> [mm] Numero coppie			m [mm]	mm <sub>OFL</sub> [mm]	F <sub>v,R,k</sub> [kN] Numero coppie			Codice
									1	2	3			1	2	3	
10 x 450	Tx50	426	173	208	10	18,38	333	177	104	155	205	168	174	30,12	57,78	84,63	SSH6221004509
10 x 500	Tx50	476	190	233	10	20,59	368	194	104	155	205	185	192	32,33	61,90	90,56	SSH6221005009
10 x 600	Tx50	576	226	283	10	25,01	439	230	104	155	205	221	227	36,75	70,15	102,44	SSH6221006009
10 x 800	Tx50	776	296	383	10	28,28	580	300	104	155	205	291	298	40,02	76,26	111,24	SSH6221008009
10 x 1000	Tx50	976	367	483	10	28,28	722	371	104	155	205	362	269	40,02	76,26	111,24	SSH6221010009
12 x 200	Tx50	180	83	85	10	8,08	156	88	126	186	246	78	85	16,15	31,22	45,94	SSH6221202009
12 x 220	Tx50	200	90	95	10	9,02	170	95	126	186	246	85	92	18,05	34,89	51,34	SSH6221202209
12 x 240	Tx50	220	97	105	10	9,98	184	102	126	186	246	92	99	19,96	38,58	56,75	SSH6221202409
12 x 260	Tx50	240	104	115	10	10,92	198	109	126	186	246	99	106	21,85	42,24	62,15	SSH6221202609
12 x 280	Tx50	260	111	125	10	11,88	213	117	126	186	246	106	113	23,76	45,93	67,57	SSH6221202809
12 x 300	Tx50	280	118	135	10	12,83	227	124	126	186	246	113	121	25,66	49,60	72,97	SSH6221203009
12 x 350	Tx50	330	136	160	10	15,20	252	141	126	186	246	131	138	30,04	58,05	85,39	SSH6221203509
12 x 400	Tx50	380	153	185	10	17,58	297	159	126	186	246	148	156	32,42	62,49	91,78	SSH6221204009
12 x 500	Tx50	480	189	235	10	22,33	368	194	126	186	246	184	191	37,17	71,35	104,55	SSH6221205009
12 x 600	Tx50	580	224	285	10	27,08	439	230	126	186	246	219	227	41,92	80,22	117,32	SSH6221206009



Ø x L [mm]		b [mm]	AD min [mm]	Sg [mm]	Tol [mm]	F <sub>ax,R,k</sub> [kN]	F <sub>v,R,k</sub> [kN]						F <sub>v,R,k</sub> [kN]		Codice
							1. α = 90° α = 0°	2. α = 0°	3. α = 90°	4. α = 0° α = 90°	5. α = 45° α = 45°	6. α = 0° α = 45°	1. α = 0°	2. α = 90°	
10 x 450	Tx50	426	237	203	20	25,38	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221004509
10 x 500	Tx50	476	262	228	20	28,50	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221005009
10 x 600	Tx50	576	312	278	20	34,75	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221006009
10 x 800	Tx50	776	412	378	20	40,00	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221008009
10 x 1000	Tx50	976	512	478	20	40,00	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221010009
12 x 200	Tx50	180	110	80	20	10,75	8,23	8,92	7,73	8,23	8,23	8,55	14,87	13,18	SSH6221202009
12 x 220	Tx50	200	120	90	20	12,10	8,57	9,26	8,06	8,57	8,57	8,88	15,54	13,85	SSH6221202209
12 x 240	Tx50	220	130	100	20	13,44	8,90	9,60	8,40	8,90	8,90	9,22	16,21	14,26	SSH6221202409
12 x 260	Tx50	240	140	110	20	14,78	9,24	9,93	8,74	9,24	9,24	9,56	16,88	14,26	SSH6221202609
12 x 280	Tx50	260	150	120	20	16,13	9,58	10,27	9,07	9,58	9,58	9,89	17,55	14,26	SSH6221202809
12 x 300	Tx50	280	160	130	20	17,47	9,91	10,60	9,41	9,91	9,91	10,23	17,64	14,26	SSH6221203009
12 x 350	Tx50	330	185	155	20	20,83	10,75	11,44	10,08	10,75	10,75	11,07	17,64	14,26	SSH6221203509
12 x 400	Tx50	380	210	180	20	24,19	11,09	12,28	10,08	11,09	11,09	11,72	17,64	14,26	SSH6221204009
12 x 500	Tx50	480	260	230	20	30,91	11,09	12,47	10,08	11,09	11,09	11,72	17,64	14,26	SSH6221205009
12 x 600	Tx50	580	310	280	20	37,63	11,09	12,47	10,08	11,09	11,09	11,72	17,64	14,26	SSH6221206009



$\varnothing \times L$ [mm]		b [mm]	AD [mm]	Sg [mm]	Tol [mm]	$F_{ax,R,k}$ [kN]	1. $F_{v,R,k}$ [kN] $\alpha = 90^\circ$ $\alpha = 0^\circ$	2. $F_{v,R,k}$ [kN] $\alpha = 0^\circ$	3. $F_{v,R,k}$ [kN] $\alpha = 90^\circ$	4. $F_{v,R,k}$ [kN] $\alpha = 0^\circ$ $\alpha = 90^\circ$	5. $F_{v,R,k}$ [kN] $\alpha = 45^\circ$ $\alpha = 45^\circ$	6. $F_{v,R,k}$ [kN] $\alpha = 0^\circ$ $\alpha = 45^\circ$	1. $F_{v,R,k}$ [kN] $\alpha = 0^\circ$	2. $F_{v,R,k}$ [kN] $\alpha = 90^\circ$	Codice
8 x 120	Tx 40	110	65	45	20	4,72	4,36	4,21	4,21	4,55	3,89	4,07	7,64	6,81	SSH6220801209
8 x 140	Tx 40	130	75	55	20	5,76	4,63	4,47	4,47	4,81	4,22	4,47	8,17	7,33	SSH6220801409
8 x 160	Tx 40	150	85	65	20	6,81	4,73	5,07	4,48	4,73	4,73	4,89	8,69	7,86	SSH6220801609
8 x 180	Tx 40	170	95	75	20	7,86	5,00	5,33	4,74	5,00	5,00	5,15	9,22	7,86	SSH6220801809
8 x 200	Tx 40	190	105	85	20	8,91	5,26	5,59	5,00	5,26	5,26	5,41	9,53	7,86	SSH6220802009
8 x 220	Tx 40	210	115	95	20	9,96	5,52	5,86	5,27	5,52	5,52	5,67	9,53	7,86	SSH6220802209
8 x 240	Tx 40	230	125	105	20	11,00	5,78	6,12	5,53	5,78	5,78	5,94	9,53	7,86	SSH6220802409
8 x 260	Tx 40	250	135	115	20	12,05	6,04	6,38	5,56	6,04	6,04	6,20	9,53	7,86	SSH6220802609
8 x 280	Tx 40	270	145	125	20	13,10	6,06	6,64	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220802809
8 x 300	Tx 40	290	155	135	20	14,15	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220803009
8 x 350	Tx 40	340	180	160	20	16,77	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220803509
8 x 400	Tx 40	390	205	185	20	19,39	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220804009
8 x 450	Tx 40	428	236	204	20	21,38	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220804509
8 x 500	Tx 40	478	261	229	20	24,00	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220805009
8 x 600	Tx 40	578	311	279	20	24,10	6,06	6,74	5,56	6,06	6,06	6,37	9,53	7,86	SSH6220806009
10 x 160	Tx50	148	86	64	20	8,00	6,48	7,01	6,09	6,48	6,48	6,72	11,17	10,41	SSH6221001609
10 x 180	Tx50	168	96	74	20	9,25	6,79	7,32	6,40	6,79	6,79	7,03	12,33	11,03	SSH6221001809
10 x 200	Tx50	188	106	84	20	10,50	7,10	7,63	6,71	7,10	7,10	7,35	12,96	11,56	SSH6221002009
10 x 220	Tx50	208	116	94	20	11,75	7,42	7,94	7,03	7,42	7,42	7,66	13,58	11,56	SSH6221002209
10 x 240	Tx50	228	126	104	20	13,00	7,73	8,26	7,34	7,73	7,73	7,97	14,16	11,56	SSH6221002409
10 x 260	Tx50	248	136	114	20	14,25	8,04	8,57	7,65	8,04	8,04	8,28	14,16	11,56	SSH6221002609
10 x 280	Tx50	268	146	124	20	15,50	8,35	8,88	7,96	8,35	8,35	8,60	14,16	11,56	SSH6221002809
10 x 300	Tx50	288	156	134	20	16,75	8,67	9,19	8,18	8,67	8,67	8,91	14,16	11,56	SSH6221003009
10 x 350	Tx50	338	181	159	20	19,88	8,96	9,98	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221003509
10 x 400	Tx50	388	206	184	20	23,00	8,96	10,01	8,18	8,96	8,96	9,44	14,16	11,56	SSH6221004009

Tutte le informazioni si basano sulle conoscenze alla data di pubblicazione, La Borgia Italia srl si riserva il diritto di modificare e non si assume alcuna responsabilità per eventuali errori di battitura, Il progettista è tenuto ad assicurarsi dell'idoneità e della completezza di tali informazioni in relazione all'utilizzo specifico che deve fare del prodotto.