LV

EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

saskaņā ar regulas (ES) Nr. 305/2011 (par būvizstrādājumiem) III pielikumu

Hilti sendvičtipa paneļu skrūves S-CD S, S-CDW S
Nr. Hilti-SF-DoP-009

1. Unikāls izstrādājuma tipa identifikācijas numurs: Hilti sendvičpaneļu stiprinājuma skrūves S-CD S, S-CDW S

2. Tipa, partijas vai sērijas numurs vai jebkāds cits būvizstrādājuma identifikācijas elements, kā noteikts 11. panta 4. punktā: tips un partijas numurs redzams uz iepakojuma

3. Būvizstrādājuma paredzētais izmantojums vai izmantojumi saskaņā ar piemērojamo saskaņoto tehnisko specifikāciju, kā paredzējis ražotājs:

Vispārējais tips un izmantojums	Sendvičtipa paneļu pašurbjošās stiprinājuma skrūves
Izstrādājumu izmērs	Skrūves diametrs 5,5 un 6,5
Pamatnes un piestiprināmais materiāls	Tērauds saskaņā ar EN 10025-1 un EN 10346, koks saskaņā ar EN 14081
Stiprinājuma materiāls	Nerūsošs tērauds (1,4301, 1,4401 vai 1,4571) saskaņā ar EN 10088
Slodze	Statiska un kvazistatiska slodze (vēja slodze)

4. Ražotāja nosaukums, reģistrētais tirdzniecības nosaukums vai reģistrētā preču zīme un adrese saziņai atbilstoši 11. panta 5. punkta: Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein

5. Vajadzības gadījumā tā pilnvarotā pārstāvja vārds un kontaktadrese, kura pilnvaras attiecas uz 12. panta 2. punktā nosauktajiem uzdevumiem: nav piemērojams

6. Ekspluatācijas īpašību noturības novērtējuma un pārbaudes sistēma vai sistēmas, kā noteikts V pielikumā: 2+ sistēma

7. Gadījumā, ja ekspluatācijas īpašību deklarācija attiecas uz būvizstrādājumu, kuram ir saskaņotais standarts:: nav piemērojams

8. ETA. Gadījumā, ja ekspluatācijas īpašību deklarācija attiecas uz būvizstrādājumu, kuram ir izdots Eiropas tehniskais novērtējums: Deutsches Institut für Bautechnik (DIBt) izdeva Eiropas tehnisko novērtējumu ETA-13 0179, pamatojoties uz EAD 330047-01-0602. Paziņotā iestāde MPA-Karlsruhe 0769 veica trešo personu uzdevumus atbilstoši 2+ sistēmai un izdeva ražošanas procesa kontroles atbilstības sertifikātu 0769-CPR-VAS-00705.

9. Deklarētā(-ās) ekspluatācijas īpašība(-as):

Galvenie raksturlielumi	**Ekspluatācijas īpašības**	**Saskaņotā tehniskā specifikācija**
Raksturīgā stiepes pretestība $N_{R,k}$	1.–16. pielikums ETA-13/0179 (8.–11., 16.–27. pielikums)	ETA 13/0179 EAD 330047-01-0602
Raksturīgā bīdes pretestība $V_{R,k}$		
Maksimālā atļautā skrūves galvas nobīde u		
Izmantojuma ierobežojumi		
Ugunsreakcija	A1	

10. Pielikuma 1. un 2. punktā norādītā izstrādājuma ekspluatācijas īpašības atbilst 9. punktā norādītajām deklarētajām ekspluatācijas īpašībām. Par šīs ekspluatācijas īpašību deklarācijas izdošanu ir atbildīgs tikai 4. punktā norādītais ražotājs.

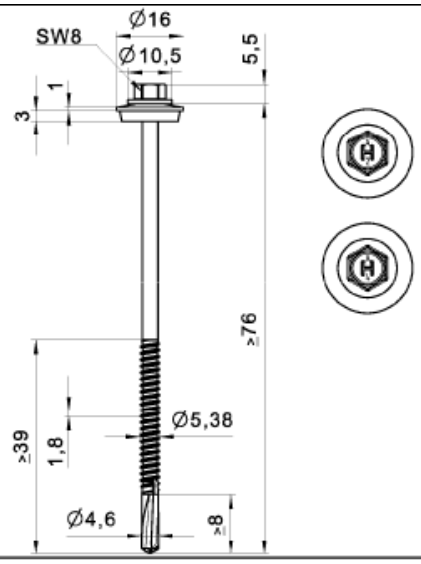
Parakstīts ražotāja vārdā:

Lars Taenzer
Tiešo stiprinājumu nodaļas vadītājs

Pierre Hohmeier
Skrūvju stiprināšanas nodaļas Kvalitātes daļas vadītājs

Hilti Aktiengesellschaft, Schaan, 01.05.2019.

Annex 1:
ETA-13/0179, Annex 8



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346
Component II:	S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 6{,}00$ mm

Timber substructures:

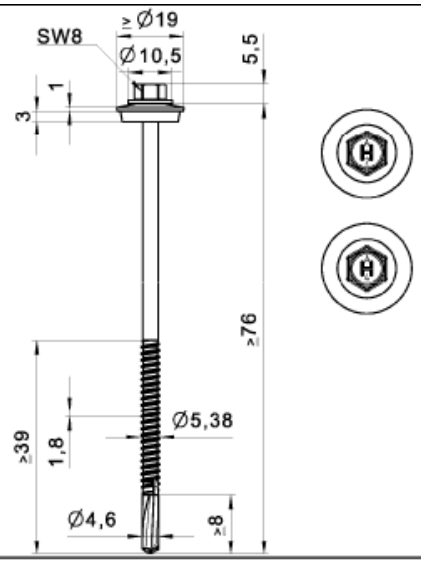
no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 1,50	2,00	2,50	3,00	4,00	5,00	6,00	8,00	≥ 10,0
$V_{R,k}$ [kN]	0,40	0,65	0,65	0,65	0,65	0,65	0,65	—	—	—
	0,50	1,17	1,17	1,17	1,17	1,17	1,17	—	—	—
	0,55	1,36	1,36	1,36	1,36	1,36	1,36	—	—	—
	0,60	1,54	1,54	1,54	1,54	1,54	1,54	—	—	—
	0,63	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,75	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,88	2,40	2,40	2,40	2,40	2,40	2,40	—	—	—
	1,00	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,80	1,92	1,92	1,92	1,92	1,92	—	—	—
	0,55	1,80	2,19	2,19	2,19	2,19	2,19	—	—	—
	0,60	1,80	2,48	2,48	2,48	2,48	2,48	—	—	—
	0,63	1,80	2,65	2,65	2,65	2,65	2,65	—	—	—
	0,75	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
	0,88	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
	1,00	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
u [mm]	40	18.0	8.0	7.0	6.0	5.0	3.0	—	—	—
	50	22,0	10,5	9,0	7,5	6,5	4,3	—	—	—
	60	26,0	13,0	11,0	9,0	8,0	5,5	—	—	—
	70	29,5	16,5	14,0	12,0	11,5	6,8	—	—	—
	80	33,0	20,0	17,5	15,0	14,0	8,0	—	—	—
	100	33,0	20,0	17,5	15,0	14,0	10,0	—	—	—
	120	33,0	20,0	17,5	15,0	14,0	12,0	—	—	—
	≥ 140	33,0	20,0	17,5	15,0	14,0	14,0	—	—	—
$N_{R,k,II}$ [kN]		1,94	2,84	3,83	4,89	7,18	7,18	—	—	—

If component t_{N1} resp. t_{N2} is made of steel grade higher than S280GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} resp. t_{N2} and t_{II} are made of steel grade higher than S280GD all values $V_{R,k}$ and $N_{R,k}$ may be increased by 8,3%. If component t_{II} is made of steel grade higher than S235 or S280GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw	
Hilti S-CDH 53 S 5,5 x L Hilti S-CDH 53 SS 5,5 x L with hexagon head and sealing washer Ø16 mm	Annex 8

Annex 2:
ETA-13/0179, Annex 9



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346
Component II:	S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 6{,}00$ mm

Timber substructures:

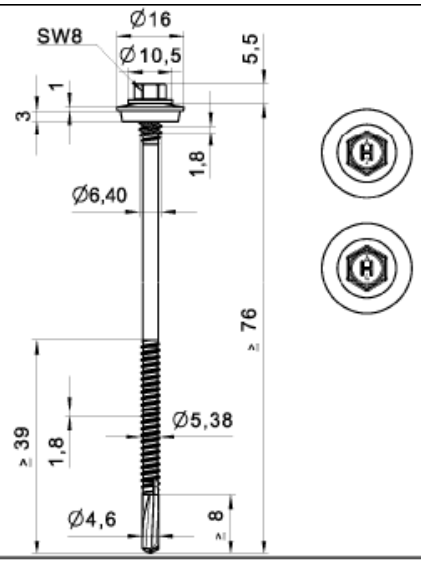
no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 1,50	2,00	2,50	3,00	4,00	5,00	6,00	8,00	≥ 10,0
$V_{R,k}$ [kN]	0,40	0,65	0,65	0,65	0,65	0,65	0,65	—	—	—
	0,50	1,17	1,17	1,17	1,17	1,17	1,17	—	—	—
	0,55	1,36	1,36	1,36	1,36	1,36	1,36	—	—	—
	0,60	1,54	1,54	1,54	1,54	1,54	1,54	—	—	—
	0,63	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,75	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,88	2,40	2,40	2,40	2,40	2,40	2,40	—	—	—
	1,00	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,80	2,60	2,60	2,60	2,60	2,60	—	—	—
	0,55	1,80	2,80	3,00	3,00	3,00	3,00	—	—	—
	0,60	1,80	2,80	3,25	3,25	3,25	3,25	—	—	—
	0,63	1,80	2,80	3,40	3,40	3,40	3,40	—	—	—
	0,75	1,80	2,80	3,80	4,20	4,20	4,20	—	—	—
	0,88	1,80	2,80	3,80	4,50	4,50	4,50	—	—	—
	1,00	1,80	2,80	3,80	4,50	4,50	4,50	—	—	—
u [mm]	40	18,0	8,0	7,0	6,0	5,0	3,0	—	—	—
	50	22,0	10,5	9,0	7,5	6,5	4,3	—	—	—
	60	26,0	13,0	11,0	9,0	8,0	5,5	—	—	—
	70	29,5	16,5	14,0	12,0	11,5	6,8	—	—	—
	80	33,0	20,0	17,5	15,0	14,0	8,0	—	—	—
	100	33,0	20,0	17,5	15,0	14,0	10,0	—	—	—
	120	33,0	20,0	17,5	15,0	14,0	12,0	—	—	—
	≥ 140	33,0	20,0	17,5	15,0	14,0	14,0	—	—	—
$N_{R,k,II}$ [kN]		1,94	2,84	3,83	4,89	7,18	7,18	—	—	—

If component t_{N1} resp. t_{N2} is made of steel grade higher than S280GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} resp. t_{N2} and t_{II} are made of steel grade higher than S280GD all values $V_{R,k}$ and $N_{R,k}$ may be increased by 8,3%. If component t_{II} is made of steel grade higher than S235 or S280GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw	
Hilti S-CDH 63 S 5,5 x L Hilti S-CDH 63 SS 5,5 x L Hilti S-CDH 73 S 5,5 x L Hilti S-CDH 73 SS 5,5 x L with hexagon head and sealing washer ≥ Ø19 mm	Annex 9

Annex 3:
ETA-13/0179, Annex 10



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346
Component II:	S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 6{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 1,50	2,00	2,50	3,00	4,00	5,00	6,00	8,00	≥ 10,0
$V_{R,k}$ [kN]	0,40	0,65	0,65	0,65	0,65	0,65	0,65	—	—	—
	0,50	1,17	1,17	1,17	1,17	1,17	1,17	—	—	—
	0,55	1,36	1,36	1,36	1,36	1,36	1,36	—	—	—
	0,60	1,54	1,54	1,54	1,54	1,54	1,54	—	—	—
	0,63	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,75	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,88	2,40	2,40	2,40	2,40	2,40	2,40	—	—	—
	1,00	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,80	1,92	1,92	1,92	1,92	1,92	—	—	—
	0,55	1,80	2,19	2,19	2,19	2,19	2,19	—	—	—
	0,60	1,80	2,48	2,48	2,48	2,48	2,48	—	—	—
	0,63	1,80	2,65	2,65	2,65	2,65	2,65	—	—	—
	0,75	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
	0,88	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
	1,00	1,80	2,80	3,57	3,57	3,57	3,57	—	—	—
u [mm]	40	18,0	8,0	7,0	6,0	5,0	3,0	—	—	—
	50	22,0	10,5	9,0	7,5	6,5	4,3	—	—	—
	60	26,0	13,0	11,0	9,0	8,0	5,5	—	—	—
	70	29,5	16,5	14,0	12,0	11,5	6,8	—	—	—
	80	33,0	20,0	17,5	15,0	14,0	8,0	—	—	—
	100	33,0	20,0	17,5	15,0	14,0	10,0	—	—	—
	120	33,0	20,0	17,5	15,0	14,0	12,0	—	—	—
	≥ 140	33,0	20,0	17,5	15,0	14,0	14,0	—	—	—
$N_{R,k,II}$ [kN]		1,94	2,84	3,83	4,89	7,18	7,18	—	—	—

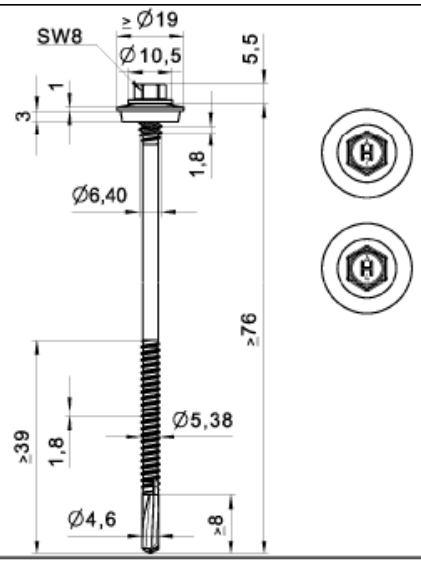
If component t_{N1} resp. t_{N2} is made of steel grade higher than S280GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} resp. t_{N2} and t_{II} are made of steel grade higher than S280GD all values $V_{R,k}$ and $N_{R,k}$ may be increased by 8,3%. If component t_{II} is made of steel grade higher than S235 or S280GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CD 53 S 5,5 x L
Hilti S-CD 53 SS 5,5 x L
with hexagon head and sealing washer Ø16 mm

Annex 10

Annex 4:
ETA-13/0179, Annex 11



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346
Component II:	S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 6{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 1,50	2,00	2,50	3,00	4,00	5,00	6,00	8,00	≥ 10,0
$V_{R,k}$ [kN]	0,40	0,65	0,65	0,65	0,65	0,65	0,65	—	—	—
	0,50	1,17	1,17	1,17	1,17	1,17	1,17	—	—	—
	0,55	1,36	1,36	1,36	1,36	1,36	1,36	—	—	—
	0,60	1,54	1,54	1,54	1,54	1,54	1,54	—	—	—
	0,63	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,75	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,88	2,40	2,40	2,40	2,40	2,40	2,40	—	—	—
	1,00	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,80	2,60	2,60	2,60	2,60	2,60	—	—	—
	0,55	1,80	2,80	3,00	3,00	3,00	3,00	—	—	—
	0,60	1,80	2,80	3,25	3,25	3,25	3,25	—	—	—
	0,63	1,80	2,80	3,40	3,40	3,40	3,40	—	—	—
	0,75	1,80	2,80	3,80	4,20	4,20	4,20	—	—	—
	0,88	1,80	2,80	3,80	4,50	4,50	4,50	—	—	—
	1,00	1,80	2,80	3,80	4,50	4,50	4,50	—	—	—
u [mm]	40	18,0	8,0	7,0	6,0	5,0	3,0	—	—	—
	50	22,0	10,5	9,0	7,5	6,5	4,3	—	—	—
	60	26,0	13,0	11,0	9,0	8,0	5,5	—	—	—
	70	29,5	16,5	14,0	12,0	11,5	6,8	—	—	—
	80	33,0	20,0	17,5	15,0	14,0	8,0	—	—	—
	100	33,0	20,0	17,5	15,0	14,0	10,0	—	—	—
	120	33,0	20,0	17,5	15,0	14,0	12,0	—	—	—
	≥ 140	33,0	20,0	17,5	15,0	14,0	14,0	—	—	—
$N_{R,k,II}$ [kN]		1,94	2,84	3,83	4,89	7,18	7,18	—	—	—

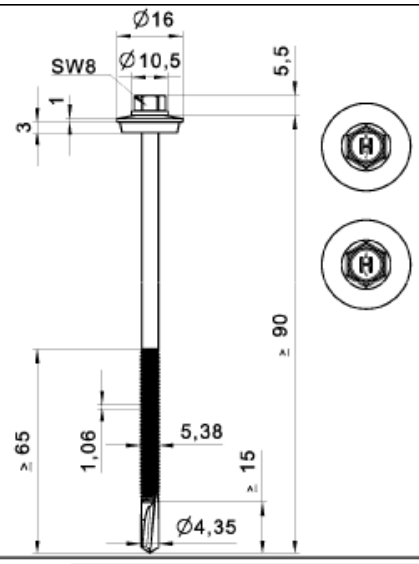
If component t_{N1} resp. t_{N2} is made of steel grade higher than S280GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} resp. t_{N2} and t_{II} are made of steel grade higher than S280GD all values $V_{R,k}$ and $N_{R,k}$ may be increased by 8,3%. If component t_{II} is made of steel grade higher than S235 or S280GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CD 63 S 5,5 x L
Hilti S-CD 63 SS 5,5 x L
Hilti S-CD 73 S 5,5 x L
Hilti S-CD 73 SS 5,5 x L
with hexagon head and sealing washer ≥ Ø19 mm

Annex 11

Annex 5:
ETA-13/0179, Annex 16



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235 - EN 10025-1 S280GD, S320GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 12{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 3,00	4,00	5,00	6,00	8,00	9,00	10,0	11,0	≥ 12,0
$V_{R,k}$ [kN]	0,40	0,99	0,99	0,99	0,99	0,99	0,99	0,99	0,99	—
	0,50	1,46	1,46	1,46	1,46	1,46	1,46	1,46	1,46	—
	0,55	1,62	1,62	1,62	1,62	1,62	1,62	1,62	1,62	—
	0,60	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	—
	0,63	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	—
	0,75	2,37	2,37	2,37	2,37	2,37	2,37	2,37	2,37	—
	0,88	2,94	2,94	2,94	2,94	2,94	2,94	2,94	2,94	—
	1,00	3,52	3,52	3,52	3,52	3,52	3,52	3,52	3,52	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,96	1,96	1,96	1,96	1,96	1,96	1,96	1,96	—
	0,55	2,25	2,25	2,25	2,25	2,25	2,25	2,25	2,25	—
	0,60	2,57	2,57	2,57	2,57	2,57	2,57	2,57	2,57	—
	0,63	2,76	2,76	2,76	2,76	2,76	2,76	2,76	2,76	—
	0,75	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
	0,88	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
	1,00	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
u [mm]	40	6,0	5,5	5,0	4,0	4,0	4,0	4,0	4,0	—
	50	8,0	7,5	7,0	6,0	6,0	6,0	6,0	6,0	—
	60	10,0	9,5	9,0	8,0	8,0	8,0	8,0	8,0	—
	70	12,5	11,5	11,0	9,5	9,5	9,5	9,5	9,5	—
	80	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	100	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	120	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	≥ 140	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
$N_{R,k,II}$ [kN]		4,65	6,40	7,74	8,36	8,36	8,36	8,36	8,36	—

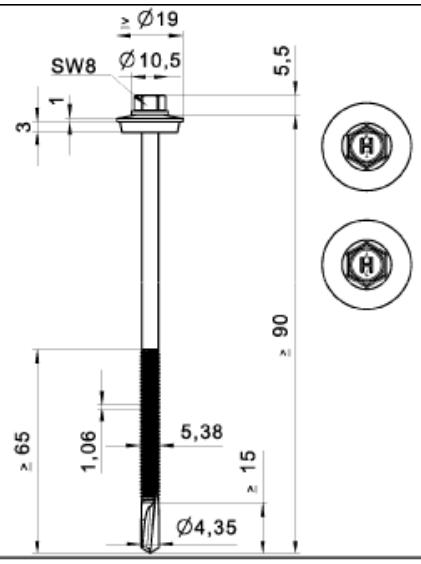
If component t_{N1} resp. t_{N2} is made of S320GD or S350GD the grey highlighted values may be increased by 8,3%.
If component t_{II} is made of S320GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CDH 55 S 5,5 x L
Hilti S-CDH 55 SS 5,5 x L
with hexagon head and sealing washer Ø16 mm

Annex 16

Annex 6:
ETA-13/0179, Annex 17



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235 - EN 10025-1 S280GD, S320GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 12{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 3,00	4,00	5,00	6,00	8,00	9,00	10,0	11,0	≥ 12,0
$V_{R,k}$ [kN]	0,40	0,99	0,99	0,99	0,99	0,99	0,99	0,99	0,99	—
	0,50	1,46	1,46	1,46	1,46	1,46	1,46	1,46	1,46	—
	0,55	1,62	1,62	1,62	1,62	1,62	1,62	1,62	1,62	—
	0,60	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	—
	0,63	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	—
	0,75	2,37	2,37	2,37	2,37	2,37	2,37	2,37	2,37	—
	0,88	2,94	2,94	2,94	2,94	2,94	2,94	2,94	2,94	—
	1,00	3,52	3,52	3,52	3,52	3,52	3,52	3,52	3,52	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	2,10	2,10	2,10	2,10	2,10	2,10	2,10	2,10	—
	0,55	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	—
	0,60	2,75	2,75	2,75	2,75	2,75	2,75	2,75	2,75	—
	0,63	2,90	2,90	2,90	2,90	2,90	2,90	2,90	2,90	—
	0,75	3,70	3,70	3,70	3,70	3,70	3,70	3,70	3,70	—
	0,88	4,50	4,60	4,60	4,60	4,60	4,60	4,60	4,60	—
	1,00	4,50	5,20	5,20	5,20	5,20	5,20	5,20	5,20	—
u [mm]	40	6,0	5,5	5,0	4,0	4,0	4,0	4,0	4,0	—
	50	8,0	7,5	7,0	6,0	6,0	6,0	6,0	6,0	—
	60	10,0	9,5	9,0	8,0	8,0	8,0	8,0	8,0	—
	70	12,5	11,5	11,0	9,5	9,5	9,5	9,5	9,5	—
	80	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	100	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	120	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	≥ 140	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
$N_{R,k,II}$ [kN]		4,65	6,40	7,74	8,36	8,36	8,36	8,36	8,36	—

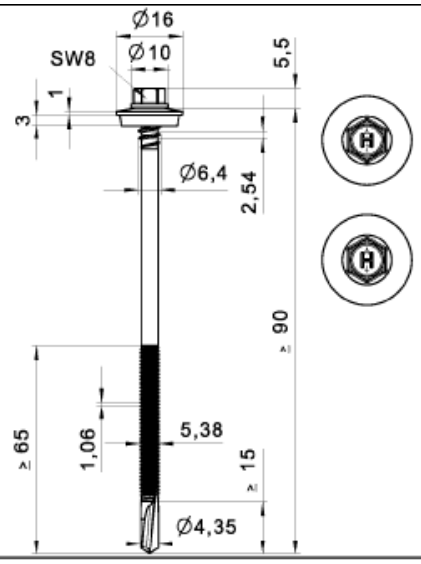
If component t_{N1} resp. t_{N2} is made of S320GD or S350GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} and t_{II} are made of S320GD or S350GD the values $N_{R,k}$ may be increased by 8,3%.
If component t_{II} is made of S320GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CDH 65 S 5,5 x L
Hilti S-CDH 65 SS 5,5 x L
Hilti S-CDH 75 S 5,5 x L
Hilti S-CDH 75 SS 5,5 x L
with hexagon head and sealing washer ≥ Ø19 mm

Annex 17

Annex 7:
ETA-13/0179, Annex 18



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235 - EN 10025-1 S280GD, S320GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 12{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 3,00	4,00	5,00	6,00	8,00	9,00	10,0	11,0	≥ 12,0
$V_{R,k}$ [kN]	0,40	0,99	0,99	0,99	0,99	0,99	0,99	0,99	0,99	—
	0,50	1,46	1,46	1,46	1,46	1,46	1,46	1,46	1,46	—
	0,55	1,62	1,62	1,62	1,62	1,62	1,62	1,62	1,62	—
	0,60	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	—
	0,63	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	—
	0,75	2,37	2,37	2,37	2,37	2,37	2,37	2,37	2,37	—
	0,88	2,94	2,94	2,94	2,94	2,94	2,94	2,94	2,94	—
	1,00	3,52	3,52	3,52	3,52	3,52	3,52	3,52	3,52	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,96	1,96	1,96	1,96	1,96	1,96	1,96	1,96	—
	0,55	2,25	2,25	2,25	2,25	2,25	2,25	2,25	2,25	—
	0,60	2,57	2,57	2,57	2,57	2,57	2,57	2,57	2,57	—
	0,63	2,76	2,76	2,76	2,76	2,76	2,76	2,76	2,76	—
	0,75	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
	0,88	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
	1,00	3,49	3,49	3,49	3,49	3,49	3,49	3,49	3,49	—
u [mm]	40	6,0	5,5	5,0	4,0	4,0	4,0	4,0	4,0	—
	50	8,0	7,5	7,0	6,0	6,0	6,0	6,0	6,0	—
	60	10,0	9,5	9,0	8,0	8,0	8,0	8,0	8,0	—
	70	12,5	11,5	11,0	9,5	9,5	9,5	9,5	9,5	—
	80	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	100	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	120	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	≥ 140	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
$N_{R,k,II}$ [kN]		4,65	6,40	7,74	8,36	8,36	8,36	8,36	8,36	—

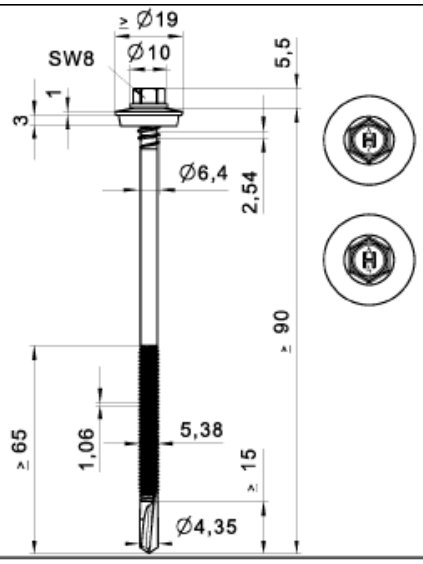
If component t_{N1} resp. t_{N2} is made of S320GD or S350GD the grey highlighted values may be increased by 8,3%.
If component t_{II} is made of S320GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CD 55 S 5,5 x L
Hilti S-CD 55 SS 5,5 x L
with hexagon head and sealing washer Ø16 mm

Annex 18

Annex 8:
ETA-13/0179, Annex 19



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235 - EN 10025-1 S280GD, S320GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 12{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 3,00	4,00	5,00	6,00	8,00	9,00	10,0	11,0	≥ 12,0
$V_{R,k}$ [kN]	0,40	0,99	0,99	0,99	0,99	0,99	0,99	0,99	0,99	—
	0,50	1,46	1,46	1,46	1,46	1,46	1,46	1,46	1,46	—
	0,55	1,62	1,62	1,62	1,62	1,62	1,62	1,62	1,62	—
	0,60	1,80	1,80	1,80	1,80	1,80	1,80	1,80	1,80	—
	0,63	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	—
	0,75	2,37	2,37	2,37	2,37	2,37	2,37	2,37	2,37	—
	0,88	2,94	2,94	2,94	2,94	2,94	2,94	2,94	2,94	—
	1,00	3,52	3,52	3,52	3,52	3,52	3,52	3,52	3,52	—
$N_{R,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	2,10	2,10	2,10	2,10	2,10	2,10	2,10	2,10	—
	0,55	2,50	2,50	2,50	2,50	2,50	2,50	2,50	2,50	—
	0,60	2,75	2,75	2,75	2,75	2,75	2,75	2,75	2,75	—
	0,63	2,90	2,90	2,90	2,90	2,90	2,90	2,90	2,90	—
	0,75	3,70	3,70	3,70	3,70	3,70	3,70	3,70	3,70	—
	0,88	4,50	4,60	4,60	4,60	4,60	4,60	4,60	4,60	—
	1,00	4,50	5,20	5,20	5,20	5,20	5,20	5,20	5,20	—
u [mm]	40	6,0	5,5	5,0	4,0	4,0	4,0	4,0	4,0	—
	50	8,0	7,5	7,0	6,0	6,0	6,0	6,0	6,0	—
	60	10,0	9,5	9,0	8,0	8,0	8,0	8,0	8,0	—
	70	12,5	11,5	11,0	9,5	9,5	9,5	9,5	9,5	—
	80	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	100	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	120	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
	≥ 140	15,0	14,0	13,0	11,0	11,0	11,0	11,0	11,0	—
$N_{R,k,II}$ [kN]		4,65	6,40	7,74	8,36	8,36	8,36	8,36	8,36	—

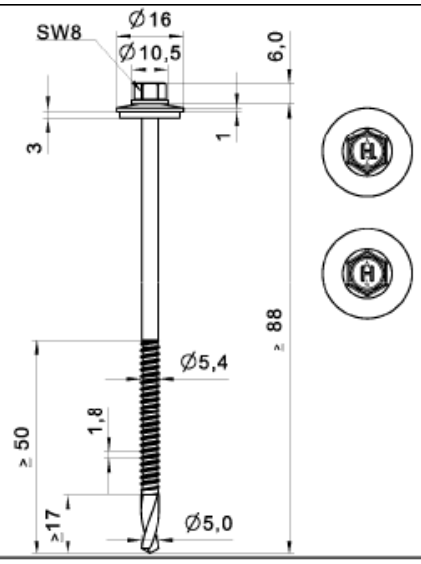
If component t_{N1} resp. t_{N2} is made of S320GD or S350GD the grey highlighted values may be increased by 8,3%. If both components t_{N1} and t_{II} are made of S320GD or S350GD the values $N_{R,k}$ may be increased by 8,3%.
If component t_{II} is made of S320GD the values $N_{R,k,II}$ may be increased by 8,3%.

Self drilling screw

Hilti S-CD 65 S 5,5 x L
Hilti S-CD 65 SS 5,5 x L
Hilti S-CD 75 S 5,5 x L
Hilti S-CD 75 SS 5,5 x L
with hexagon head and sealing washer ≥ Ø19 mm

Annex 19

Annex 9:
ETA-13/0179, Annex 20



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	0,93	0,93	0,93	0,93	0,93	—	—	—
	0,55	1,12	1,12	1,12	1,12	1,12	1,12	—	—	—
	0,60	1,31	1,31	1,31	1,31	1,31	1,31	—	—	—
	0,63	1,42	1,42	1,42	1,42	1,42	1,42	—	—	—
	0,75	1,88	1,88	1,88	1,88	1,88	1,88	—	—	—
	0,88	2,33	2,33	2,33	2,33	2,33	2,33	—	—	—
	1,00	2,74	2,74	2,74	2,74	2,74	2,74	—	—	—
$N_{R,k}$ [kN]	0,40	1,46	1,46	1,46	1,46	1,46	1,46	—	—	—
	0,50	1,89	1,89	1,89	1,89	1,89	1,89	—	—	—
	0,55	2,21	2,21	2,21	2,21	2,21	2,21	—	—	—
	0,60	2,53	2,53	2,53	2,53	2,53	2,53	—	—	—
	0,63	2,73	2,73	2,73	2,73	2,73	2,73	—	—	—
	0,75	3,50	3,50	3,50	3,50	3,50	3,50	—	—	—
	0,88	3,68	3,68	3,68	3,68	3,68	3,68	—	—	—
	1,00	3,84	3,84	3,84	3,84	3,84	3,84	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

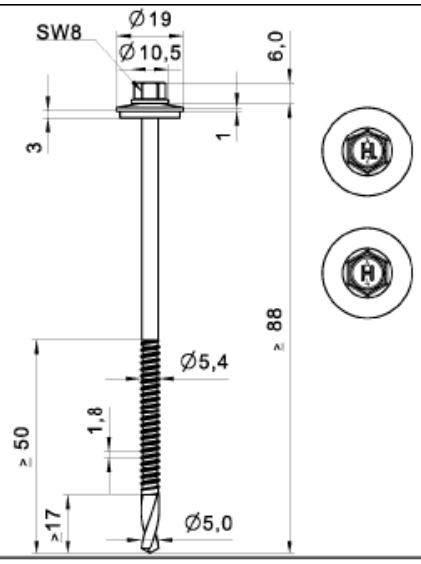
No additional regulations.

Self drilling screw

Hilti S-CDH 55 GS 5,5 x L
Hilti S-CDH 55 GSS 5,5 x L
with hexagon head and sealing washer Ø16 mm

Annex 20

Annex 10:
ETA-13/0179, Annex 21



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	1,12	1,30	1,30	1,30	1,30	—	—	—
	0,55	1,12	1,28	1,44	1,44	1,44	1,44	—	—	—
	0,60	1,31	1,45	1,58	1,58	1,58	1,58	—	—	—
	0,63	1,42	1,54	1,66	1,66	1,66	1,66	—	—	—
	0,75	1,88	1,94	2,00	2,00	2,00	2,00	—	—	—
	0,88	2,33	2,57	2,81	2,81	2,81	2,81	—	—	—
	1,00	2,74	3,15	3,56	3,56	3,56	3,56	—	—	—
$N_{R,k}$ [kN]	0,40	1,46	1,46	1,46	1,46	1,46	1,46	—	—	—
	0,50	1,89	1,89	1,89	1,89	1,89	1,89	—	—	—
	0,55	2,21	2,21	2,21	2,21	2,21	2,21	—	—	—
	0,60	2,53	2,53	2,53	2,53	2,53	2,53	—	—	—
	0,63	2,73	2,73	2,73	2,73	2,73	2,73	—	—	—
	0,75	3,50	3,50	3,50	3,50	3,50	3,50	—	—	—
	0,88	3,68	3,68	3,68	3,68	3,68	3,68	—	—	—
	1,00	3,84	3,84	3,84	3,84	3,84	3,84	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

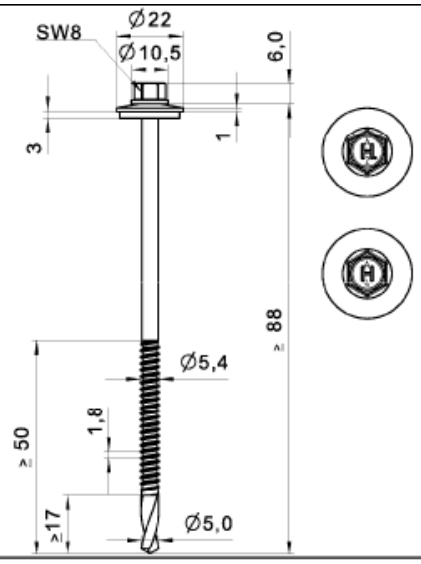
No additional regulations.

Self drilling screw

Hilti S-CDH 65 GS 5,5 x L
Hilti S-CDH 65 GSS 5,5 x L
with hexagon head and sealing washer Ø19 mm

Annex 21

Annex 11:
ETA-13/0179, Annex 22



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	1,12	1,30	1,30	1,30	1,30	—	—	—
	0,55	1,12	1,28	1,44	1,44	1,44	1,44	—	—	—
	0,60	1,31	1,45	1,58	1,58	1,58	1,58	—	—	—
	0,63	1,42	1,54	1,66	1,66	1,66	1,66	—	—	—
	0,75	1,88	1,94	2,00	2,00	2,00	2,00	—	—	—
	0,88	2,33	2,57	2,81	2,81	2,81	2,81	—	—	—
	1,00	2,74	3,15	3,56	3,56	3,56	3,56	—	—	—
$N_{R,k}$ [kN]	0,40	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,50	1,77	1,77	1,77	1,77	1,77	1,77	—	—	—
	0,55	2,26	2,26	2,26	2,26	2,26	2,26	—	—	—
	0,60	2,74	2,74	2,74	2,74	2,74	2,74	—	—	—
	0,63	3,03	3,03	3,03	3,03	3,03	3,03	—	—	—
	0,75	3,92	4,20	4,20	4,20	4,20	4,20	—	—	—
	0,88	3,92	4,32	4,32	4,32	4,32	4,32	—	—	—
	1,00	3,92	4,44	4,44	4,44	4,44	4,44	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

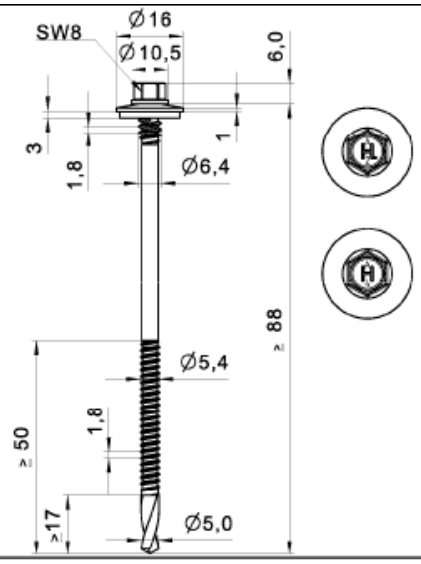
No additional regulations.

Self drilling screw

Hilti S-CDH 75 GS 5,5 x L
Hilti S-CDH 75 GSS 5,5 x L
with hexagon head and sealing washer Ø22 mm

Annex 22

Annex 12:
ETA-13/0179, Annex 23



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm]								
		4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	0,93	0,93	0,93	0,93	0,93	—	—	—
	0,55	1,12	1,12	1,12	1,12	1,12	1,12	—	—	—
	0,60	1,31	1,31	1,31	1,31	1,31	1,31	—	—	—
	0,63	1,42	1,42	1,42	1,42	1,42	1,42	—	—	—
	0,75	1,88	1,88	1,88	1,88	1,88	1,88	—	—	—
	0,88	2,33	2,33	2,33	2,33	2,33	2,33	—	—	—
	1,00	2,74	2,74	2,74	2,74	2,74	2,74	—	—	—
$N_{R,k}$ [kN]	0,40	1,46	1,46	1,46	1,46	1,46	1,46	—	—	—
	0,50	1,89	1,89	1,89	1,89	1,89	1,89	—	—	—
	0,55	2,21	2,21	2,21	2,21	2,21	2,21	—	—	—
	0,60	2,53	2,53	2,53	2,53	2,53	2,53	—	—	—
	0,63	2,73	2,73	2,73	2,73	2,73	2,73	—	—	—
	0,75	3,50	3,50	3,50	3,50	3,50	3,50	—	—	—
	0,88	3,68	3,68	3,68	3,68	3,68	3,68	—	—	—
	1,00	3,84	3,84	3,84	3,84	3,84	3,84	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

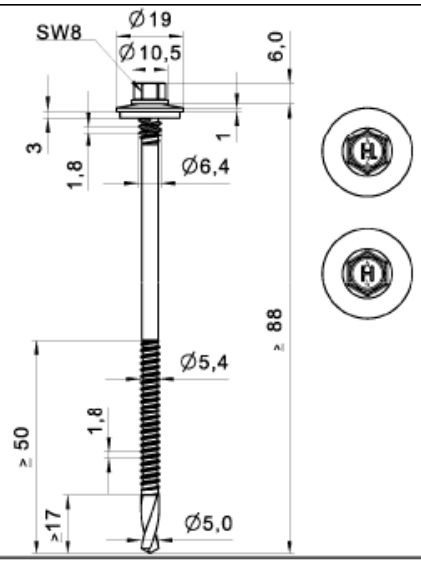
No additional regulations.

Self drilling screw

Hilti S-CD 55 GS 5,5 x L
Hilti S-CD 55 GSS 5,5 x L
with hexagon head and sealing washer Ø16 mm

Annex 23

Annex 13:
ETA-13/0179, Annex 24



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	1,12	1,30	1,30	1,30	1,30	—	—	—
	0,55	1,12	1,28	1,44	1,44	1,44	1,44	—	—	—
	0,60	1,31	1,45	1,58	1,58	1,58	1,58	—	—	—
	0,63	1,42	1,54	1,66	1,66	1,66	1,66	—	—	—
	0,75	1,88	1,94	2,00	2,00	2,00	2,00	—	—	—
	0,88	2,33	2,57	2,81	2,81	2,81	2,81	—	—	—
	1,00	2,74	3,15	3,56	3,56	3,56	3,56	—	—	—
$N_{R,k}$ [kN]	0,40	1,46	1,46	1,46	1,46	1,46	1,46	—	—	—
	0,50	1,89	1,89	1,89	1,89	1,89	1,89	—	—	—
	0,55	2,21	2,21	2,21	2,21	2,21	2,21	—	—	—
	0,60	2,53	2,53	2,53	2,53	2,53	2,53	—	—	—
	0,63	2,73	2,73	2,73	2,73	2,73	2,73	—	—	—
	0,75	3,50	3,50	3,50	3,50	3,50	3,50	—	—	—
	0,88	3,68	3,68	3,68	3,68	3,68	3,68	—	—	—
	1,00	3,84	3,84	3,84	3,84	3,84	3,84	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

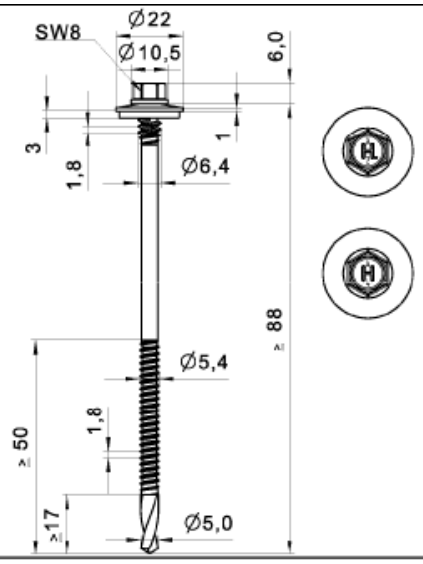
No additional regulations.

Self drilling screw

Hilti S-CD 65 GS 5,5 x L
Hilti S-CD 65 GSS 5,5 x L
with hexagon head and sealing washer Ø19 mm

Annex 24

Annex 14:
ETA-13/0179, Annex 25



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD, S350GD - EN 10346
Component II:	S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346

Drilling capacity: $\Sigma t_i \leq 15{,}00$ mm

Timber substructures:

no performance determined

t_{N1}, t_{N2}, d, D [mm]		t_{II} [mm] 4,00	5,00	6,00	7,00	8,00	≥ 10,0	—	—	—
$V_{R,k}$ [kN]	0,40	0,82	0,82	0,82	0,82	0,82	0,82	—	—	—
	0,50	0,93	1,12	1,30	1,30	1,30	1,30	—	—	—
	0,55	1,12	1,28	1,44	1,44	1,44	1,44	—	—	—
	0,60	1,31	1,45	1,58	1,58	1,58	1,58	—	—	—
	0,63	1,42	1,54	1,66	1,66	1,66	1,66	—	—	—
	0,75	1,88	1,94	2,00	2,00	2,00	2,00	—	—	—
	0,88	2,33	2,57	2,81	2,81	2,81	2,81	—	—	—
	1,00	2,74	3,15	3,56	3,56	3,56	3,56	—	—	—
$N_{R,k}$ [kN]	0,40	1,65	1,65	1,65	1,65	1,65	1,65	—	—	—
	0,50	1,77	1,77	1,77	1,77	1,77	1,77	—	—	—
	0,55	2,26	2,26	2,26	2,26	2,26	2,26	—	—	—
	0,60	2,74	2,74	2,74	2,74	2,74	2,74	—	—	—
	0,63	3,03	3,03	3,03	3,03	3,03	3,03	—	—	—
	0,75	3,92	4,20	4,20	4,20	4,20	4,20	—	—	—
	0,88	3,92	4,32	4,32	4,32	4,32	4,32	—	—	—
	1,00	3,92	4,44	4,44	4,44	4,44	4,44	—	—	—
u [mm]	40	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	50	4,5	4,5	4,5	4,5	4,5	4,5	—	—	—
	60	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	70	7,4	7,4	7,4	7,4	7,4	7,4	—	—	—
	80	8,8	8,8	8,8	8,8	8,8	8,8	—	—	—
	90	10,1	10,1	10,1	10,1	10,1	10,1	—	—	—
	≥ 100	11,5	11,5	11,5	11,5	11,5	11,5	—	—	—
$N_{R,k,II}$ [kN]		3,92	4,92	5,91	6,22	6,52	6,52	—	—	—

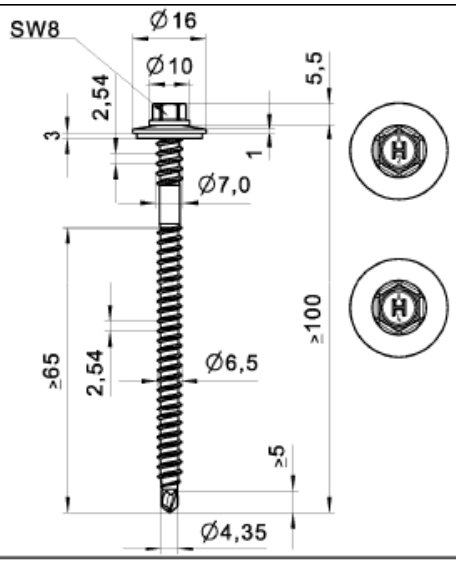
No additional regulations.

Self drilling screw

Hilti S-CD 75 GS 5,5 x L
Hilti S-CD 75 GSS 5,5 x L
with hexagon head and sealing washer Ø22 mm

Annex 25

Annex 15:
ETA-13/0179, Annex 26



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD - EN 10346
Component II:	Structural timber - EN 14081

Drilling capacity: $\Sigma t_i \leq 2{,}00$ mm

Timber substructures:

performance determined with

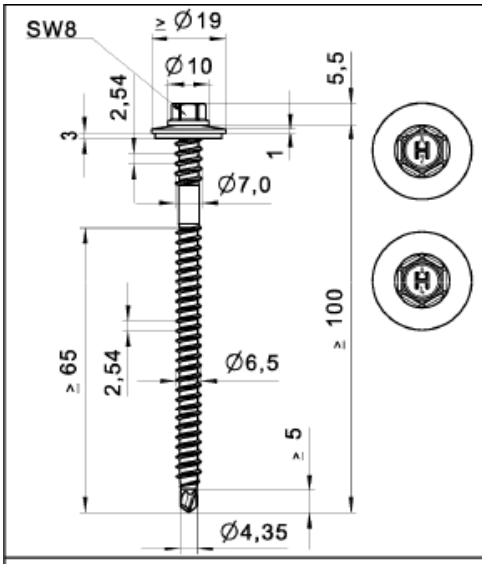
$M_{y,Rk}$ = 9,741 Nm
$f_{ax,k}$ = 10.769 N/mm² for $l_{ef} \geq 50{,}0$ mm

	t_{N1}, t_{N2} [mm]	d, D [mm]								
		30	40	50	60	70	80	100	120	≥ 140
$V_{R,I,k}$ [kN]	0,40	0,62	0,62	0,62	0,62	0,62	0,62	0,62	0,62	0,62
	0,50	0,98	0,98	0,98	0,98	0,98	0,98	0,98	0,98	0,98
	0,55	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15
	0,60	1,37	1,37	1,37	1,37	1,37	1,37	1,37	1,37	1,37
	0,63	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50
	0,75	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
	0,88	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
	1,00	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
$N_{R,I,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	1,72	1,72	1,72	1,72	1,72	1,72	1,72	1,72	1,72
	0,55	1,96	1,96	1,96	1,96	1,96	1,96	1,96	1,96	1,96
	0,60	2,12	2,12	2,12	2,12	2,12	2,12	2,12	2,12	2,12
	0,63	2,21	2,21	2,21	2,21	2,21	2,21	2,21	2,21	2,21
	0,75	2,73	2,73	2,73	2,73	2,73	2,73	2,73	2,73	2,73
	0,88	3,32	3,32	3,32	3,32	3,32	3,32	3,32	3,32	3,32
	1,00	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50
u [mm]		—	5,0	7,0	9,0	11,0	13,0	18,0	18,0	18,0
$N_{R,k,II}$ [kN]		3,15	3,15	3,15	3,15	3,15	3,15	3,15	3,15	3,15

If component t_{N1} resp. t_{N2} is made of S320GD the grey highlighted values may be increased by 8,3%.
The values listed above in dependence on the screw-in length l_{ef} and the values $N_{R,k,II}$ are valid for k_{mod} = 0,90 and timber strength grade C24 (ρ_a = 350 kg/m³). For other combinations of k_{mod} and timber strength grades see Annex 3.

Self drilling screw	
Hilti S-CDW 51 S 6,5 x L Hilti S-CDW 51 SS 6,5 x L with hexagon head and sealing washer Ø16 mm	Annex 26

Annex 16:
ETA-13/0179, Annex 27



Material:

Fastener:	stainless Steel (1.4301, 1.4401, 1.4571) - EN 10088
Washer:	stainless Steel (1.4301) - EN 10088
Component I:	S280GD, S320GD - EN 10346
Component II:	Structural timber - EN 14081

Drilling capacity: $\Sigma t_i \leq 2{,}00$ mm

Timber substructures:

performance determined with

$M_{y,Rk}$ = 9,741 Nm
$f_{ax,k}$ = 10,769 N/mm² for $l_{ef} \geq 50{,}0$ mm

	t_{N1}, t_{N2} [mm]	d, D [mm]								
		30	40	50	60	70	80	100	120	≥ 140
$V_{R,I,k}$ [kN]	0,40	0,62	0,62	0,62	0,62	0,62	0,62	0,62	0,62	0,62
	0,50	0,98	0,98	0,98	0,98	0,98	0,98	0,98	0,98	0,98
	0,55	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15
	0,60	1,37	1,37	1,37	1,37	1,37	1,37	1,37	1,37	1,37
	0,63	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50	1,50
	0,75	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
	0,88	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
	1,00	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17	2,17
$N_{R,I,k}$ [kN]	0,40	—	—	—	—	—	—	—	—	—
	0,50	2,60	2,60	2,60	2,60	2,60	2,60	2,60	2,60	2,60
	0,55	3,10	3,10	3,10	3,10	3,10	3,10	3,10	3,10	3,10
	0,60	3,35	3,35	3,35	3,35	3,35	3,35	3,35	3,35	3,35
	0,63	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50
	0,75	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50
	0,88	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50
	1,00	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50	3,50
u [mm]		—	5,0	7,0	9,0	11,0	13,0	18,0	18,0	18,0
$N_{R,k,II}$ [kN]		3,15	3,15	3,15	3,15	3,15	3,15	3,15	3,15	3,15

If component t_{N1} resp. t_{N2} is made of S320GD the grey highlighted values may be increased by 8,3%.
The values listed above in dependence on the screw-in length l_{ef} and the values $N_{R,k,II}$ are valid for k_{mod} = 0,90 and timber strength grade C24 (ρ_a = 350 kg/m³). For other combinations of k_{mod} and timber strength grades see Annex 3.

Self drilling screw	
Hilti S-CDW 61 S 6,5 x L Hilti S-CDW 61 SS 6,5 x L Hilti S-CDW 71 S 6,5 x L Hilti S-CDW 71 SS 6,5 x L with hexagon head and sealing washer ≥ Ø19 mm	Annex 27