

SV

PRESTANDEDEKLARATION

enligt bilaga III till EU-förordning nr 305/2011 (Byggproduktförordning)

 Hilti sandwichpanelskruv S-CD C
nr Hilti-SF-DoP-010

- 1. Produkttypens unika identifikationskod:** Hilti fästskruvar för sandwichpanel S-CD C
- 2. Typ, parti- eller serienummer eller någon annan beteckning som möjliggör identifiering av byggprodukter i enlighet med artikel 11(4):** Typ- och partinummer står på förpackningen
- 3. Byggproduktens avsedda användning eller användningar i enlighet med den tillämpliga, harmoniserade tekniska specifikationen, såsom förutsatt av tillverkaren:**

Generisk typ och användning	Självborrande fästskruvar för sandwichpanel
Produktstorlek	Skruvdiameter 5,5 mm
Grund- och monterat material	Stål enligt EN 10025-1 och EN 10346
Fästelementets material	Kolstål, härdat och belagt
Belastning	Statisk och kvasistatisk (vindlast)

- 4. Tillverkarens namn, registrerade företagsnamn eller registrerade varumärken samt kontaktadress enligt vad som krävs i artikel 11(5):** Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Furstendömet Liechtenstein
- 5. I tillämpliga fall namn och kontaktadress för tillverkarens representant vars mandat omfattar de uppgifter som anges i artikel 12(2):** inte tillämpligt
- 6. Systemet eller systemen för bedömning och fortlöpande kontroll av byggproduktens prestanda enligt bilaga V:** System 2+
- 7. För det fall att prestandadeklarationen avser en byggprodukt som omfattas av en harmoniserad standard:** inte tillämpligt
- 8. För det fall att prestandadeklarationen avser en byggprodukt för vilken en europeisk teknisk bedömning har utfärdats:** Deutsches Institut für Bautechnik (DIBt) har utfärdat ETA-13/0179 på grundval av EAD 330047-01-0602. Det anmälda organet MPA-Karlsruhe 0769 har utfört uppgifter för system 2+ och utfärdat intyg om överensstämmelse efter tillverkningskontroll 0769-CPR-VAS-00705.

9. Angiven prestanda:

Väsentlig egenskap	Prestanda	Harmoniserad teknisk specifikation
Karaktäristiskt dragmotstånd $N_{R,k}$	Bilaga 1-8 ETA-13/0179 (Bilaga 4-7, 12-15)	ETA 13/0179 EAD 330047-01-0602
Karaktäristiskt skjuvmotstånd $V_{R,k}$		
Skruvhuvudets max. tillåtna förskjutning u		
Applikationsgränser		
Brandtålighet	A1	

- 10. Prestandan för den produkt som anges i punkterna 1 och 2 överensstämmer med den prestanda som anges i punkt 9. Denna prestandadeklaration utfärdas på eget ansvar av den tillverkare som anges under punkt 4.**

Undertecknat för tillverkaren av:

Lars Taenzer
Head of Business Unit Direct Fastening

Pierre Hohmeier
Head of Quality Screw Fastening

Hilti Aktiengesellschaft, Schaan, 01.05.2019

Annex 1:
ETA-13/0179, Annex 4

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Component II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p>																																																																																																																																																																																																																																																																																		
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<table border="1"> <thead> <tr> <th rowspan="2">t_{N1}, t_{N2}, d, D [mm]</th> <th colspan="10">t_{II} [mm]</th> </tr> <tr> <th>1,50</th> <th>2,00</th> <th>2,50</th> <th>3,00</th> <th>3,50</th> <th>4,00</th> <th>4,50</th> <th>5,00</th> <th colspan="2">—</th> </tr> </thead> <tbody> <tr> <td rowspan="8">$V_{R,k}$ [kN]</td> <td>0,40</td><td>0,79</td><td>0,79</td><td>0,79</td><td>0,79</td><td>0,79</td><td>0,79</td><td>0,79</td><td>0,79</td><td>—</td> </tr> <tr> <td>0,50</td><td>0,97</td><td>0,97</td><td>0,97</td><td>0,97</td><td>0,97</td><td>0,97</td><td>0,97</td><td>0,97</td><td>—</td> </tr> <tr> <td>0,55</td><td>1,19</td><td>1,19</td><td>1,19</td><td>1,19</td><td>1,19</td><td>1,19</td><td>1,19</td><td>1,19</td><td>—</td> </tr> <tr> <td>0,60</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>—</td> </tr> <tr> <td>0,63</td><td>1,53</td><td>1,53</td><td>1,53</td><td>1,53</td><td>1,53</td><td>1,53</td><td>1,53</td><td>1,53</td><td>—</td> </tr> <tr> <td>0,75</td><td>2,05</td><td>2,05</td><td>2,05</td><td>2,05</td><td>2,05</td><td>2,05</td><td>2,05</td><td>2,05</td><td>—</td> </tr> <tr> <td>0,88</td><td>2,29</td><td>2,29</td><td>2,29</td><td>2,29</td><td>2,29</td><td>2,29</td><td>2,29</td><td>2,29</td><td>—</td> </tr> <tr> <td>1,00</td><td>2,51</td><td>2,51</td><td>2,51</td><td>2,51</td><td>2,51</td><td>2,51</td><td>2,51</td><td>2,51</td><td>—</td> </tr> <tr> <td rowspan="8">$N_{R,k}$ [kN]</td> <td>0,40</td><td>1,39</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>1,40</td><td>—</td> </tr> <tr> <td>0,50</td><td>1,39</td><td>1,63</td><td>1,63</td><td>1,63</td><td>1,63</td><td>1,63</td><td>1,63</td><td>1,63</td><td>—</td> </tr> <tr> <td>0,55</td><td>1,39</td><td>2,03</td><td>2,03</td><td>2,03</td><td>2,03</td><td>2,03</td><td>2,03</td><td>2,03</td><td>—</td> </tr> <tr> <td>0,60</td><td>1,39</td><td>2,43</td><td>2,43</td><td>2,43</td><td>2,43</td><td>2,43</td><td>2,43</td><td>2,43</td><td>—</td> </tr> <tr> <td>0,63</td><td>1,39</td><td>2,68</td><td>2,68</td><td>2,68</td><td>2,68</td><td>2,68</td><td>2,68</td><td>2,68</td><td>—</td> </tr> <tr> <td>0,75</td><td>1,39</td><td>2,86</td><td>3,64</td><td>3,64</td><td>3,64</td><td>3,64</td><td>3,64</td><td>3,64</td><td>—</td> </tr> <tr> <td>0,88</td><td>1,39</td><td>2,86</td><td>4,04</td><td>4,04</td><td>4,04</td><td>4,04</td><td>4,04</td><td>4,04</td><td>—</td> </tr> <tr> <td>1,00</td><td>1,39</td><td>2,86</td><td>4,32</td><td>4,41</td><td>4,41</td><td>4,41</td><td>4,41</td><td>4,41</td><td>—</td> </tr> <tr> <td rowspan="6">u [mm]</td> <td>40</td><td>4,0</td><td>2,0</td><td>2,0</td><td>2,0</td><td>2,0</td><td>2,0</td><td>2,0</td><td>2,0</td><td>—</td> </tr> <tr> <td>50</td><td>5,0</td><td>2,8</td><td>2,8</td><td>2,8</td><td>2,8</td><td>2,8</td><td>2,8</td><td>2,8</td><td>—</td> </tr> <tr> <td>60</td><td>6,0</td><td>3,5</td><td>3,5</td><td>3,5</td><td>3,5</td><td>3,5</td><td>3,5</td><td>3,5</td><td>—</td> </tr> <tr> <td>70</td><td>7,0</td><td>4,1</td><td>4,1</td><td>4,1</td><td>4,1</td><td>4,1</td><td>4,1</td><td>4,1</td><td>—</td> </tr> <tr> <td>80</td><td>8,0</td><td>4,7</td><td>4,7</td><td>4,7</td><td>4,7</td><td>4,7</td><td>4,7</td><td>4,7</td><td>—</td> </tr> <tr> <td>90</td><td>9,0</td><td>5,3</td><td>5,3</td><td>5,3</td><td>5,3</td><td>5,3</td><td>5,3</td><td>5,3</td><td>—</td> </tr> <tr> <td>≥ 100</td><td>10,0</td><td>5,8</td><td>5,8</td><td>5,8</td><td>5,8</td><td>5,8</td><td>5,8</td><td>5,8</td><td>—</td> </tr> <tr> <td>$N_{R,k,II}$ [kN]</td> <td>1,39</td><td>2,86</td><td>4,32</td><td>5,79</td><td>7,25</td><td>8,71</td><td>8,71</td><td>8,71</td><td>—</td> </tr> </tbody> </table>	t_{N1}, t_{N2}, d, D [mm]	t_{II} [mm]										1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	—		$V_{R,k}$ [kN]	0,40	0,79	0,79	0,79	0,79	0,79	0,79	0,79	0,79	—	0,50	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	—	0,55	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	—	0,60	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	—	0,63	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—	0,75	2,05	2,05	2,05	2,05	2,05	2,05	2,05	2,05	—	0,88	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	—	1,00	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	—	$N_{R,k}$ [kN]	0,40	1,39	1,40	1,40	1,40	1,40	1,40	1,40	1,40	—	0,50	1,39	1,63	1,63	1,63	1,63	1,63	1,63	1,63	—	0,55	1,39	2,03	2,03	2,03	2,03	2,03	2,03	2,03	—	0,60	1,39	2,43	2,43	2,43	2,43	2,43	2,43	2,43	—	0,63	1,39	2,68	2,68	2,68	2,68	2,68	2,68	2,68	—	0,75	1,39	2,86	3,64	3,64	3,64	3,64	3,64	3,64	—	0,88	1,39	2,86	4,04	4,04	4,04	4,04	4,04	4,04	—	1,00	1,39	2,86	4,32	4,41	4,41	4,41	4,41	4,41	—	u [mm]	40	4,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	—	50	5,0	2,8	2,8	2,8	2,8	2,8	2,8	2,8	—	60	6,0	3,5	3,5	3,5	3,5	3,5	3,5	3,5	—	70	7,0	4,1	4,1	4,1	4,1	4,1	4,1	4,1	—	80	8,0	4,7	4,7	4,7	4,7	4,7	4,7	4,7	—	90	9,0	5,3	5,3	5,3	5,3	5,3	5,3	5,3	—	≥ 100	10,0	5,8	5,8	5,8	5,8	5,8	5,8	5,8	—	$N_{R,k,II}$ [kN]	1,39	2,86	4,32	5,79	7,25	8,71	8,71	8,71	—	No additional regulations.										
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Hilti S-CDH 53 C 5,5 x L with hexagon head and sealing washer Ø16 mm																																																																																																																																																																																																																																																																																			

Annex 2:
ETA-13/0179, Annex 5

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Component II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p>									
	<p>Drilling capacity: $\Sigma t_i \leq 6,00$ mm</p>									
	<p>Timber substructures: no performance determined</p>									
	t_{N1}, t_{N2}, d, D [mm]	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	—
$V_{R,k}$ [kN]	0,40	0,79	0,79	0,79	0,79	0,79	0,79	0,79	0,79	—
	0,50	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	—
	0,55	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	—
	0,60	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	—
	0,63	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—
	0,75	2,05	2,05	2,05	2,05	2,05	2,05	2,05	2,05	—
	0,88	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	—
	1,00	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	—
$N_{R,k}$ [kN]	0,40	1,39	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—
	0,50	1,39	1,79	1,79	1,79	1,79	1,79	1,79	1,79	—
	0,55	1,39	2,20	2,20	2,20	2,20	2,20	2,20	2,20	—
	0,60	1,39	2,61	2,61	2,61	2,61	2,61	2,61	2,61	—
	0,63	1,39	2,86	2,86	2,86	2,86	2,86	2,86	2,86	—
	0,75	1,39	2,86	3,85	3,85	3,85	3,85	3,85	3,85	—
	0,88	1,39	2,86	4,15	4,15	4,15	4,15	4,15	4,15	—
	1,00	1,39	2,86	4,32	4,42	4,42	4,42	4,42	4,42	—
u [mm]	40	4,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	—
	50	5,0	2,8	2,8	2,8	2,8	2,8	2,8	2,8	—
	60	6,0	3,5	3,5	3,5	3,5	3,5	3,5	3,5	—
	70	7,0	4,1	4,1	4,1	4,1	4,1	4,1	4,1	—
	80	8,0	4,7	4,7	4,7	4,7	4,7	4,7	4,7	—
	90	9,0	5,3	5,3	5,3	5,3	5,3	5,3	5,3	—
≥ 100	10,0	5,8	5,8	5,8	5,8	5,8	5,8	5,8	—	
$N_{R,k,II}$ [kN]		1,39	2,86	4,32	5,79	7,25	8,71	8,71	8,71	—
No additional regulations.										
Self drilling screw										Annex 5
Hilti S-CDH 63 C 5,5 x L Hilti S-CDH 73 C 5,5 x L with hexagon head and sealing washer $\geq \text{Ø}19$ mm										

Annex 3:
ETA-13/0179, Annex 6

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Component II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p>																																																																																																																																																																																																																																																																																		
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Annex 6																																																																																																																																																																																																																																																																																			

Annex 4:
ETA-13/0179, Annex 7

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Component II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p>																																																																																																																																																																																																																																																																																			
	<p>Drilling capacity: $\Sigma t_i \leq 6,00$ mm</p>																																																																																																																																																																																																																																																																																			
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<td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>—</td> </tr> <tr> <td>0,75</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>2,05</td> <td>—</td> </tr> <tr> <td>0,88</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>2,29</td> <td>—</td> </tr> <tr> <td>1,00</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>2,51</td> <td>—</td> </tr> <tr> <td rowspan="8">$N_{R,k}$ [kN]</td> <td>0,40</td> <td>1,39</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>1,53</td> <td>—</td> </tr> <tr> <td>0,50</td> <td>1,39</td> <td>1,79</td> <td>1,79</td> <td>1,79</td> <td>1,79</td> <td>1,79</td> <td>1,79</td> <td>1,79</td> <td>—</td> </tr> <tr> <td>0,55</td> <td>1,39</td> <td>2,20</td> <td>2,20</td> <td>2,20</td> <td>2,20</td> <td>2,20</td> <td>2,20</td> <td>2,20</td> <td>—</td> </tr> <tr> <td>0,60</td> <td>1,39</td> <td>2,61</td> <td>2,61</td> <td>2,61</td> <td>2,61</td> <td>2,61</td> <td>2,61</td> <td>2,61</td> <td>—</td> </tr> <tr> <td>0,63</td> <td>1,39</td> <td>2,86</td> <td>2,86</td> <td>2,86</td> <td>2,86</td> <td>2,86</td> <td>2,86</td> <td>2,86</td> <td>—</td> </tr> <tr> <td>0,75</td> <td>1,39</td> <td>2,86</td> <td>3,85</td> <td>3,85</td> <td>3,85</td> <td>3,85</td> <td>3,85</td> <td>3,85</td> <td>—</td> </tr> <tr> <td>0,88</td> <td>1,39</td> <td>2,86</td> <td>4,15</td> <td>4,15</td> <td>4,15</td> <td>4,15</td> <td>4,15</td> <td>4,15</td> <td>—</td> </tr> <tr> <td>1,00</td> <td>1,39</td> <td>2,86</td> <td>4,32</td> <td>4,42</td> <td>4,42</td> <td>4,42</td> <td>4,42</td> <td>4,42</td> <td>—</td> </tr> <tr> <td rowspan="6">u [mm]</td> <td>40</td> <td>4,0</td> <td>2,0</td> <td>2,0</td> <td>2,0</td> <td>2,0</td> <td>2,0</td> <td>2,0</td> <td>2,0</td> <td>—</td> </tr> <tr> <td>50</td> <td>5,0</td> <td>2,8</td> <td>2,8</td> <td>2,8</td> <td>2,8</td> <td>2,8</td> <td>2,8</td> <td>2,8</td> <td>—</td> </tr> <tr> <td>60</td> <td>6,0</td> <td>3,5</td> <td>3,5</td> <td>3,5</td> <td>3,5</td> <td>3,5</td> <td>3,5</td> <td>3,5</td> <td>—</td> </tr> <tr> <td>70</td> <td>7,0</td> <td>4,1</td> <td>4,1</td> <td>4,1</td> <td>4,1</td> <td>4,1</td> <td>4,1</td> <td>4,1</td> <td>—</td> </tr> <tr> <td>80</td> <td>8,0</td> <td>4,7</td> <td>4,7</td> <td>4,7</td> <td>4,7</td> <td>4,7</td> <td>4,7</td> <td>4,7</td> <td>—</td> </tr> <tr> <td>90</td> <td>9,0</td> <td>5,3</td> <td>5,3</td> <td>5,3</td> <td>5,3</td> <td>5,3</td> <td>5,3</td> <td>5,3</td> <td>—</td> </tr> <tr> <td>≥ 100</td> <td>10,0</td> <td>5,8</td> <td>5,8</td> <td>5,8</td> <td>5,8</td> <td>5,8</td> <td>5,8</td> <td>5,8</td> <td>—</td> </tr> <tr> <td>$N_{R,k,II}$ [kN]</td> <td>1,39</td> <td>2,86</td> <td>4,32</td> <td>5,79</td> <td>7,25</td> <td>8,71</td> <td>8,71</td> <td>8,71</td> <td>—</td> <td></td> </tr> </tbody> </table>	t_{N1}, t_{N2}, d, D [mm]	1,50	2,00	2,50	3,00	t_{II} [mm]							1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	—		$V_{R,k}$ [kN]	0,40	0,79	0,79	0,79	0,79	0,79	0,79	0,79	0,79	—	0,50	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	—	0,55	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	—	0,60	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	—	0,63	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—	0,75	2,05	2,05	2,05	2,05	2,05	2,05	2,05	2,05	—	0,88	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	—	1,00	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	—	$N_{R,k}$ [kN]	0,40	1,39	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—	0,50	1,39	1,79	1,79	1,79	1,79	1,79	1,79	1,79	—	0,55	1,39	2,20	2,20	2,20	2,20	2,20	2,20	2,20	—	0,60	1,39	2,61	2,61	2,61	2,61	2,61	2,61	2,61	—	0,63	1,39	2,86	2,86	2,86	2,86	2,86	2,86	2,86	—	0,75	1,39	2,86	3,85	3,85	3,85	3,85	3,85	3,85	—	0,88	1,39	2,86	4,15	4,15	4,15	4,15	4,15	4,15	—	1,00	1,39	2,86	4,32	4,42	4,42	4,42	4,42	4,42	—	u [mm]	40	4,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	—	50	5,0	2,8	2,8	2,8	2,8	2,8	2,8	2,8	—	60	6,0	3,5	3,5	3,5	3,5	3,5	3,5	3,5	—	70	7,0	4,1	4,1	4,1	4,1	4,1	4,1	4,1	—	80	8,0	4,7	4,7	4,7	4,7	4,7	4,7	4,7	—	90	9,0	5,3	5,3	5,3	5,3	5,3	5,3	5,3	—	≥ 100	10,0	5,8	5,8	5,8	5,8	5,8	5,8	5,8	—	$N_{R,k,II}$ [kN]	1,39	2,86	4,32	5,79	7,25	8,71	8,71	8,71	—		<p>No additional regulations.</p>									
t_{N1}, t_{N2}, d, D [mm]	1,50	2,00	2,50	3,00	t_{II} [mm]																																																																																																																																																																																																																																																																															
	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00	—																																																																																																																																																																																																																																																																											
$V_{R,k}$ [kN]	0,40	0,79	0,79	0,79	0,79	0,79	0,79	0,79	0,79	—																																																																																																																																																																																																																																																																										
	0,50	0,97	0,97	0,97	0,97	0,97	0,97	0,97	0,97	—																																																																																																																																																																																																																																																																										
	0,55	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	—																																																																																																																																																																																																																																																																										
	0,60	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	—																																																																																																																																																																																																																																																																										
	0,63	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—																																																																																																																																																																																																																																																																										
	0,75	2,05	2,05	2,05	2,05	2,05	2,05	2,05	2,05	—																																																																																																																																																																																																																																																																										
	0,88	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	—																																																																																																																																																																																																																																																																										
	1,00	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	—																																																																																																																																																																																																																																																																										
$N_{R,k}$ [kN]	0,40	1,39	1,53	1,53	1,53	1,53	1,53	1,53	1,53	—																																																																																																																																																																																																																																																																										
	0,50	1,39	1,79	1,79	1,79	1,79	1,79	1,79	1,79	—																																																																																																																																																																																																																																																																										
	0,55	1,39	2,20	2,20	2,20	2,20	2,20	2,20	2,20	—																																																																																																																																																																																																																																																																										
	0,60	1,39	2,61	2,61	2,61	2,61	2,61	2,61	2,61	—																																																																																																																																																																																																																																																																										
	0,63	1,39	2,86	2,86	2,86	2,86	2,86	2,86	2,86	—																																																																																																																																																																																																																																																																										
	0,75	1,39	2,86	3,85	3,85	3,85	3,85	3,85	3,85	—																																																																																																																																																																																																																																																																										
	0,88	1,39	2,86	4,15	4,15	4,15	4,15	4,15	4,15	—																																																																																																																																																																																																																																																																										
	1,00	1,39	2,86	4,32	4,42	4,42	4,42	4,42	4,42	—																																																																																																																																																																																																																																																																										
u [mm]	40	4,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	—																																																																																																																																																																																																																																																																										
	50	5,0	2,8	2,8	2,8	2,8	2,8	2,8	2,8	—																																																																																																																																																																																																																																																																										
	60	6,0	3,5	3,5	3,5	3,5	3,5	3,5	3,5	—																																																																																																																																																																																																																																																																										
	70	7,0	4,1	4,1	4,1	4,1	4,1	4,1	4,1	—																																																																																																																																																																																																																																																																										
	80	8,0	4,7	4,7	4,7	4,7	4,7	4,7	4,7	—																																																																																																																																																																																																																																																																										
	90	9,0	5,3	5,3	5,3	5,3	5,3	5,3	5,3	—																																																																																																																																																																																																																																																																										
≥ 100	10,0	5,8	5,8	5,8	5,8	5,8	5,8	5,8	—																																																																																																																																																																																																																																																																											
$N_{R,k,II}$ [kN]	1,39	2,86	4,32	5,79	7,25	8,71	8,71	8,71	—																																																																																																																																																																																																																																																																											
Self drilling screw																																																																																																																																																																																																																																																																																				
Hilti S-CD 63 C 5,5 x L Hilti S-CD 73 C 5,5 x L with hexagon head and sealing washer $\geq \text{Ø}19$ mm																																																																																																																																																																																																																																																																																				
Annex 7																																																																																																																																																																																																																																																																																				

Annex 5:
ETA-13/0179, Annex 12

	<p>Material: Fastener: carbon steel, case hardened and coated Washer: aluminium alloy EN AW-5754 - EN 485 Component I: S280GD, S320GD, S350GD - EN 10346 Component II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>									
	<p>Drilling capacity: $\Sigma t_i \leq 15,00$ mm</p>									
	<p>Timber substructures: no performance determined</p>									
	t_{N1}, t_{N2}, d, D [mm]	4,00	5,00	6,00	7,00	8,00	$\geq 10,0$	—	—	—
$V_{R,k}$ [kN]	0,40	0,80	0,80	0,80	0,80	0,80	0,80	—	—	—
	0,50	0,97	0,97	0,97	0,97	0,97	0,97	—	—	—
	0,55	1,19	1,19	1,19	1,19	1,19	1,19	—	—	—
	0,60	1,40	1,40	1,40	1,40	1,40	1,40	—	—	—
	0,63	1,53	1,53	1,53	1,53	1,53	1,53	—	—	—
	0,75	2,05	2,05	2,05	2,05	2,05	2,05	—	—	—
	0,88	2,29	2,29	2,29	2,29	2,29	2,29	—	—	—
	1,00	2,51	2,51	2,51	2,51	2,51	2,51	—	—	—
$N_{R,k}$ [kN]	0,40	1,40	1,40	1,40	1,40	1,40	1,40	—	—	—
	0,50	1,63	1,63	1,63	1,63	1,63	1,63	—	—	—
	0,55	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,60	2,43	2,43	2,43	2,43	2,43	2,43	—	—	—
	0,63	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
	0,75	3,64	3,64	3,64	3,64	3,64	3,64	—	—	—
	0,88	4,04	4,04	4,04	4,04	4,04	4,04	—	—	—
	1,00	4,41	4,41	4,41	4,41	4,41	4,41	—	—	—
u [mm]	40	2,0	2,0	2,0	2,0	2,0	2,0	—	—	—
	50	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	60	4,0	4,0	4,0	4,0	4,0	4,0	—	—	—
	70	4,7	4,7	4,7	4,7	4,7	4,7	—	—	—
	80	5,3	5,3	5,3	5,3	5,3	5,3	—	—	—
	90	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	≥ 100	6,7	6,7	6,7	6,7	6,7	6,7	—	—	—
$N_{R,k,II}$ [kN]	7,94	7,94	7,94	7,94	7,94	7,94	7,94	—	—	—
No additional regulations.										
Self drilling screw										Annex 12
Hilti S-CDH 55 C 5,5 x L with hexagon head and sealing washer $\varnothing 16$ mm										

Annex 6:
ETA-13/0179, Annex 13

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD - EN 10346</p> <p>Component II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>									
	<p>Drilling capacity: $\Sigma t_i \leq 15,00$ mm</p>									
	<p>Timber substructures: no performance determined</p>									
	t_{N1}, t_{N2}, d, D [mm]	4,00	5,00	6,00	7,00	8,00	$\geq 10,0$	—	—	—
$V_{R,k}$ [kN]	0,40	0,80	0,80	0,80	0,80	0,80	0,80	—	—	—
	0,50	0,97	0,97	0,97	0,97	0,97	0,97	—	—	—
	0,55	1,19	1,19	1,19	1,19	1,19	1,19	—	—	—
	0,60	1,40	1,40	1,40	1,40	1,40	1,40	—	—	—
	0,63	1,53	1,53	1,53	1,53	1,53	1,53	—	—	—
	0,75	2,05	2,05	2,05	2,05	2,05	2,05	—	—	—
	0,88	2,29	2,29	2,29	2,29	2,29	2,29	—	—	—
	1,00	2,51	2,51	2,51	2,51	2,51	2,51	—	—	—
$N_{R,k}$ [kN]	0,40	1,53	1,53	1,53	1,53	1,53	1,53	—	—	—
	0,50	1,79	1,79	1,79	1,79	1,79	1,79	—	—	—
	0,55	2,20	2,20	2,20	2,20	2,20	2,20	—	—	—
	0,60	2,61	2,61	2,61	2,61	2,61	2,61	—	—	—
	0,63	2,86	2,86	2,86	2,86	2,86	2,86	—	—	—
	0,75	3,85	3,85	3,85	3,85	3,85	3,85	—	—	—
	0,88	4,15	4,15	4,15	4,15	4,15	4,15	—	—	—
	1,00	4,42	4,42	4,42	4,42	4,42	4,42	—	—	—
u [mm]	40	2,0	2,0	2,0	2,0	2,0	2,0	—	—	—
	50	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	60	4,0	4,0	4,0	4,0	4,0	4,0	—	—	—
	70	4,7	4,7	4,7	4,7	4,7	4,7	—	—	—
	80	5,3	5,3	5,3	5,3	5,3	5,3	—	—	—
	90	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	≥ 100	6,7	6,7	6,7	6,7	6,7	6,7	—	—	—
$N_{R,k,II}$ [kN]	7,94	7,94	7,94	7,94	7,94	7,94	7,94	—	—	—
No additional regulations.										
Self drilling screw										Annex 13
Hilti S-CDH 65 C 5,5 x L Hilti S-CDH 75 C 5,5 x L with hexagon head and sealing washer $\geq \text{Ø}19$ mm										

Annex 7:
ETA-13/0179, Annex 14

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD - EN 10346</p> <p>Component II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>									
	<p>Drilling capacity: $\Sigma t_i \leq 15,00$ mm</p>									
<p>Timber substructures: no performance determined</p>										
	t_{N1}, t_{N2}, d, D [mm]	4,00	5,00	6,00	7,00	8,00	$\geq 10,0$	—	—	—
$V_{R,k}$ [kN]	0,40	0,80	0,80	0,80	0,80	0,80	0,80	—	—	—
	0,50	0,97	0,97	0,97	0,97	0,97	0,97	—	—	—
	0,55	1,19	1,19	1,19	1,19	1,19	1,19	—	—	—
	0,60	1,40	1,40	1,40	1,40	1,40	1,40	—	—	—
	0,63	1,53	1,53	1,53	1,53	1,53	1,53	—	—	—
	0,75	2,05	2,05	2,05	2,05	2,05	2,05	—	—	—
	0,88	2,29	2,29	2,29	2,29	2,29	2,29	—	—	—
	1,00	2,51	2,51	2,51	2,51	2,51	2,51	—	—	—
$N_{R,k}$ [kN]	0,40	1,40	1,40	1,40	1,40	1,40	1,40	—	—	—
	0,50	1,63	1,63	1,63	1,63	1,63	1,63	—	—	—
	0,55	2,03	2,03	2,03	2,03	2,03	2,03	—	—	—
	0,60	2,43	2,43	2,43	2,43	2,43	2,43	—	—	—
	0,63	2,68	2,68	2,68	2,68	2,68	2,68	—	—	—
	0,75	3,64	3,64	3,64	3,64	3,64	3,64	—	—	—
	0,88	4,04	4,04	4,04	4,04	4,04	4,04	—	—	—
	1,00	4,41	4,41	4,41	4,41	4,41	4,41	—	—	—
u [mm]	40	2,0	2,0	2,0	2,0	2,0	2,0	—	—	—
	50	3,0	3,0	3,0	3,0	3,0	3,0	—	—	—
	60	4,0	4,0	4,0	4,0	4,0	4,0	—	—	—
	70	4,7	4,7	4,7	4,7	4,7	4,7	—	—	—
	80	5,3	5,3	5,3	5,3	5,3	5,3	—	—	—
	90	6,0	6,0	6,0	6,0	6,0	6,0	—	—	—
	≥ 100	6,7	6,7	6,7	6,7	6,7	6,7	—	—	—
$N_{R,k,II}$ [kN]	7,94	7,94	7,94	7,94	7,94	7,94	7,94	—	—	—
No additional regulations.										
Self drilling screw										Annex 14
Hilti S-CD 55 C 5,5 x L with hexagon head and sealing washer Ø16 mm										

Annex 8:
ETA-13/0179, Annex 15

	<p>Material:</p> <p>Fastener: carbon steel, case hardened and coated</p> <p>Washer: aluminium alloy EN AW-5754 - EN 485</p> <p>Component I: S280GD, S320GD, S350GD - EN 10346</p> <p>Component II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																																														
	<p>Drilling capacity: $\Sigma t_i \leq 15,00$ mm</p>																																																																																																																																																																																																																																																														
<p>Timber substructures: no performance determined</p>																																																																																																																																																																																																																																																															
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