

HR

## IZJAVA O SVOJSTVIMA

sukladno prilogu III propisa (EU) br. 305/2011 (Uredba o građevnim proizvodima)

 Hilti vijci za sendvič-panele S-CD C  
 Br. Hilti-SF-DoP-010

- Jedinstvena identifikacijska šifra tipa proizvoda:** Hilti vijci za pričvršćivanje sendvič-panela S-CD C
- Tip, šarža ili serijski broj ili bilo koji drugi element koji omogućuje identificiranje građevnog proizvoda sukladno Članku 11(4):** Tip i broj šarže prikazani su na ambalaži
- Namjeravana uporaba ili uporabe građevnog proizvoda, sukladno važećoj harmoniziranoj tehničkoj specifikaciji, kako je predviđeno od strane proizvođača:**

Generički tip i uporaba	Samobušeci vijci za pričvršćivanje sendvič-panela
Veličina proizvoda obuhvaćena	Promjer vijka 5,5 mm
Osnovni i pričvršćeni materijal	Čelik u skladu s EN 10025-1 i EN 10346
Materijal pričvršćivača	Ugljični čelik, kaljene površine i obložen
Opterećenje	Statičko i kvazi-statičko (opterećenje uslijed vjetra)

- Ime, registrirani žig ili registrirani znak i kontakt adresa proizvođača sukladno Članku 11(5):**  
Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein
- Gdje je primjenljivo, ime i kontakt adresu ovlaštenog predstavnika čije ovlaštenje obuhvaća zadatke precizirane u Članku 12(2):** n.a.

- Sustav ili sustavi ocjenjivanja i provjere stalnosti svojstava građevnog proizvoda kako je navedeno u Aneksu V:** Sustav 2+

- U slučaju izjave o svojstvima u svezi s građevnim proizvodom obuhvaćenog harmoniziranim standardom:** nije primjenljivo

- U slučaju izjave o svojstvima u svezi s građevnim proizvodom za koji je izdana Europska tehnička ocjena:** Deutsches Institut für Bautechnik (DIBt) izdao je ETA-13/0179 na temelju EAD 330047-01-0602. Tijelo za ocjenu sukladnosti MPA-Karlsruhe 0769 provelo je neovisne postupke prema sustavu 2+ i izdalo je izjavu o sukladnosti upravljanja proizvodnjom 0769-CPR-VAS-00705.

**9. Objavljena svojstva:**

Bitna značajka	Svojstvo	Harmonizirana tehnička specifikacija
Karakteristična otpornost na vlak $N_{R,k}$	Aneks 1-8 ETA-13/0179 (Aneks 4-7, 12-15)	ETA 13/0179 EAD 330047-01-0602
Karakteristična otpornost na smicanje $V_{R,k}$		
Maks. dopušteni pomak glave vijka u		
Granice primjene		
Reagiranje na vatru	A1	

- Svojstvo ovog proizvoda identificirano u točkama 1 i 2 sukladno je nazivnom svojstvu u točki 9. Ova izjava o svojstvima se izdaje na isključivu odgovornost proizvođača identificiranog u točki 4.**

Potpisano za i u ime proizvođača:

**Lars Taenzer**  
 Direktor poslovne jedinice Direktno pričvršćivanje



**Pierre Hohmeier**  
 Direktor kvalitete Vijčanja

Hilti Aktiengesellschaft, Schaan, 01.05.2019.

Annex 1:  
ETA-13/0179, Annex 4

	<p><b>Material:</b></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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<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	1,40	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	—	$\geq 100$	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]																																																																																																																																																																																																																																																																															
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Self drilling screw										Annex 4																																																																																																																																																																																																																																																																										
<p>Hilti S-CDH 53 C 5,5 x L with hexagon head and sealing washer Ø16 mm</p>																																																																																																																																																																																																																																																																																				

Annex 2:  
ETA-13/0179, Annex 5

	<p><b>Material:</b></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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<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"><math>N_{R,k}</math> [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"><math>u</math> [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><math>\geq 100</math></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><math>N_{R,k,II}</math> [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]											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	—	$\geq 100$	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]																																																																																																																																																																																																																																																																															
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$V_{R,k}$ [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	—																																																																																																																																																																																																																																																																										
$\geq 100$	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																																																																																																																																																																																																																																																																																				
<p>Hilti S-CDH 63 C 5,5 x L Hilti S-CDH 73 C 5,5 x L with hexagon head and sealing washer <math>\geq \text{Ø}19</math> mm</p>										Annex 5																																																																																																																																																																																																																																																																										

Annex 3:  
ETA-13/0179, Annex 6

	<p><b>Material:</b></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><b>Drilling capacity:</b> <math>\Sigma t_i \leq 6,00</math> mm</p>									
	<p><b>Timber substructures:</b> 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	1,40	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.										
Self drilling screw										Annex 6
Hilti S-CD 53 C 5,5 x L with hexagon head and sealing washer Ø16 mm										

Annex 4:  
ETA-13/0179, Annex 7

	<p><b>Material:</b></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><b>Drilling capacity:</b> <math>\Sigma t_i \leq 6,00</math> mm</p>																																																																																																																																																																																																																																																																																			
	<p><b>Timber substructures:</b> no performance determined</p>																																																																																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th><math>t_{N1}, t_{N2}, d, D</math> [mm]</th> <th>1,50</th> <th>2,00</th> <th>2,50</th> <th>3,00</th> <th colspan="5"><math>t_{II}</math> [mm]</th> <th></th> </tr> <tr> <th></th> <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>—</th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="8"><math>V_{R,k}</math> [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"><math>N_{R,k}</math> [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"><math>u</math> [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><math>\geq 100</math></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><math>N_{R,k,II}</math> [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	—	$\geq 100$	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	—																																																																																																																																																																																																																																																																										
$\geq 100$	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><b>Material:</b></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><b>Drilling capacity:</b> <math>\Sigma t_i \leq 15,00</math> mm</p>									
	<p><b>Timber substructures:</b> 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	—	—	—
	$\geq 100$	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><b>Material:</b>                  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><b>Drilling capacity:</b> <math>\Sigma t_i \leq 15,00</math> mm</p>									
	<p><b>Timber substructures:</b> 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	—	—	—
	$\geq 100$	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><b>Material:</b>  <b>Fastener:</b> carbon steel, case hardened and coated  <b>Washer:</b> aluminium alloy EN AW-5754 - EN 485  <b>Component I:</b> S280GD, S320GD, S350GD - EN 10346  <b>Component II:</b> S235, S275, S355 - EN 10025-1                  S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																																												
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Annex 8:  
ETA-13/0179, Annex 15

	<p><b>Material:</b></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>																																																																																																																																																																																																																																																																															
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<p><b>Timber substructures:</b> no performance determined</p>																																																																																																																																																																																																																																																																																
<table border="1"> <thead> <tr> <th rowspan="2"><math>t_{N1}, t_{N2}, d, D</math> [mm]</th> <th colspan="7"><math>t_{li}</math> [mm]</th> <th rowspan="2">—</th> <th rowspan="2">—</th> <th rowspan="2">—</th> </tr> <tr> <th>4,00</th> <th>5,00</th> <th>6,00</th> <th>7,00</th> <th>8,00</th> <th><math>\geq 10,0</math></th> <th>—</th> </tr> </thead> <tbody> <tr> <td rowspan="8"><math>V_{R,k}</math> [kN]</td> <td>0,40</td><td>0,80</td><td>0,80</td><td>0,80</td><td>0,80</td><td>0,80</td><td>0,80</td><td>—</td><td>—</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>—</td><td>—</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>—</td><td>—</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>—</td><td>—</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>—</td><td>—</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>—</td><td>—</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>—</td><td>—</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>—</td><td>—</td><td>—</td> </tr> <tr> <td rowspan="8"><math>N_{R,k}</math> [kN]</td> <td>0,40</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><td>—</td><td>—</td> </tr> <tr> <td>0,50</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><td>—</td><td>—</td> </tr> <tr> <td>0,55</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><td>—</td><td>—</td> </tr> <tr> <td>0,60</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><td>—</td><td>—</td> </tr> <tr> <td>0,63</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><td>—</td><td>—</td> </tr> <tr> <td>0,75</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><td>—</td><td>—</td> </tr> <tr> <td>0,88</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><td>—</td><td>—</td> </tr> <tr> <td>1,00</td><td>4,42</td><td>4,42</td><td>4,42</td><td>4,42</td><td>4,42</td><td>4,42</td><td>—</td><td>—</td><td>—</td> </tr> <tr> <td rowspan="6"><math>u</math> [mm]</td> <td>40</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><td>—</td><td>—</td> </tr> <tr> <td>50</td><td>3,0</td><td>3,0</td><td>3,0</td><td>3,0</td><td>3,0</td><td>3,0</td><td>—</td><td>—</td><td>—</td> </tr> <tr> <td>60</td><td>4,0</td><td>4,0</td><td>4,0</td><td>4,0</td><td>4,0</td><td>4,0</td><td>—</td><td>—</td><td>—</td> </tr> <tr> <td>70</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><td>—</td><td>—</td> </tr> <tr> <td>80</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><td>—</td><td>—</td> </tr> <tr> <td>90</td><td>6,0</td><td>6,0</td><td>6,0</td><td>6,0</td><td>6,0</td><td>6,0</td><td>—</td><td>—</td><td>—</td> </tr> <tr> <td><math>\geq 100</math></td><td>6,7</td><td>6,7</td><td>6,7</td><td>6,7</td><td>6,7</td><td>6,7</td><td>—</td><td>—</td><td>—</td> </tr> <tr> <td><math>N_{R,k,II}</math> [kN]</td> <td>7,94</td><td>7,94</td><td>7,94</td><td>7,94</td><td>7,94</td><td>7,94</td><td>7,94</td><td>—</td><td>—</td><td>—</td> </tr> </tbody> </table>											$t_{N1}, t_{N2}, d, D$ [mm]	$t_{li}$ [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	—	—	—	$\geq 100$	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	—	—	—
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