

DE

LEISTUNGSERKLÄRUNG

gemäß Anhang III der Verordnung (EU) Nr. 305/2011 (Bauprodukteverordnung)

 Hilti Befestigungsschrauben für Sandwichpaneel S-CD C
 Nr. Hilti-SF-DoP-010

- 1. Eindeutiger Kenncode des Produkttyps:** Hilti Befestigungsschrauben für Sandwichpaneel S-CD C
- 2. Typen-, Chargen- oder Seriennummer oder ein anderes Kennzeichen zur Identifikation des Bauprodukts gemäß Artikel 11, Absatz 4:** Typen- und Chargennummer auf der Verpackung angegeben

3. Vom Hersteller vorgesehener Verwendungszweck oder vorgesehene Verwendungszwecke des Bauprodukts gemäß der anwendbaren harmonisierten technischen Spezifikation:

Allgemeine Bauart und Verwendung	Selbstbohrende Schrauben zur Befestigung von Sandwichpaneelen
Abgedeckte Produktgrößen	Schraubendurchmesser 5,5 mm
Untergrund- und befestigtes Material	Stahl gemäß EN 10025-1 und EN 10346
Werkstoff des Befestigungselements	Kohlenstoffstahl, einsatzgehärtet und beschichtet
Belastung	Statisch und quasi-statisch (Windlast)

4. Name, eingetragener Handelsname oder eingetragene Marke und Kontaktanschrift des Herstellers gemäß Artikel 11, Absatz 5: Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein

5. Gegebenenfalls Name und Kontaktanschrift des Bevollmächtigten, der mit den Aufgaben gemäß Artikel 12, Absatz 2, beauftragt ist: n. a.

6. System oder Systeme zur Bewertung und Überprüfung der Leistungsbeständigkeit des Bauprodukts gemäß Anhang V: System 2+

7. Im Falle der Leistungserklärung, die ein Bauprodukt betrifft, das von einer harmonisierten Norm erfasst wird: n. a.

8. Im Falle der Leistungserklärung, die ein Bauprodukt betrifft, für das eine Europäische Technische Bewertung ausgestellt worden ist: Vom Deutschen Institut für Bautechnik (DIBt) erteilte ETA-13/0179 auf Grundlage von EAD 330047-01-0602. Die benannte Stelle MPA-Karlsruhe 0769 hat die unter System 2+ definierten Aufgaben eines unabhängigen Dritten ausgeführt und die Konformitätsbescheinigung der werkseigenen Produktionskontrolle 0769-CPR-VAS-00705 ausgestellt.

9. Erklärte Leistung:

Wesentliches Merkmal	Leistung	Harmonisierte technische Spezifikation
Charakteristische Längszugtragfähigkeit $N_{R,k}$	Anhang 1-8 ETA-13/0179 (Anhang 4-7, 12-15)	ETA-13/0179 EAD 330047-01-0602
Charakteristische Querszugtragfähigkeit $V_{R,k}$		
Max. zul. Schraubenkopfauslenkung u		
Anwendungsgrenzen		
Brandverhalten	A1	

10. Die Leistung des Produkts gemäß den Nummern 1 und 2 entspricht der erklärten Leistung nach Nummer 9. Verantwortlich für die Erstellung dieser Leistungserklärung ist allein der Hersteller gemäß Nummer 4.

Unterzeichnet für den Hersteller und in dessen Namen von:

Lars Taenzer
Head of Business Unit Direct Fastening

Pierre Hohmeier
Head of Quality Screw Fastening

Hilti Aktiengesellschaft, Schaan, 01.05.2019

Anhang 1:
ETA-13/0179, Anhang 4

	Material: Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet Scheibe: Aluminiumlegierung EN AW-5754 - EN 485 Bauteil I: S280GD, S3207GD, S350GD, S390GD, S420GD, S450GD - EN 10346 Bauteil II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346																																																																																																																																																																																																																																															
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Hilti S-CDH 53 C 5,5 x L mit Sechskantkopf und Dichtscheibe Ø16 mm																																																																																																																																																																																																																																																

Anhang 2:
ETA-13/0179, Anhang 5

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Bauteil 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"></th> <th rowspan="2">t_{N1}, t_{N2}, d, D [mm]</th> <th colspan="9">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>—</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> 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<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></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	1,53	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	—				
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	0,88	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	—																																																																																																																																																																																																																																																																		
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	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	—																																																																																																																																																																																																																																																																		
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	60	6,0	3,5	3,5	3,5	3,5	3,5	3,5	3,5	—																																																																																																																																																																																																																																																																		
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Hilti S-CDH 63 C 5,5 x L Hilti S-CDH 73 C 5,5 x L mit Sechskantkopf und Dichtscheibe $\geq \text{Ø}19$ mm		Anhang 5																																																																																																																																																																																																																																																																										

Anhang 3:
ETA-13/0179, Anhang 6

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p> <p>Bauteil II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346</p>																																																																																																																																																																																																																																									
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Anhang 4:
ETA-13/0179, Anhang 7

	Material: Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet Scheibe: Aluminiumlegierung EN AW-5754 - EN 485 Bauteil I: S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346 Bauteil II: S235, S275, S355, S420 - EN 10025-1 S280GD, S320GD, S350GD, S390GD, S420GD, S450GD - EN 10346																																																																																																																																																																																																																																																																																	
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[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	—	Keine weiteren Festlegungen.									
			t_{N1}, t_{N2}, d, D [mm]	t_{II} [mm]																																																																																																																																																																																																																																																																														
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Anhang 5:
ETA-13/0179, Anhang 12

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD - EN 10346</p> <p>Bauteil II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																														
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<table border="1"> <thead> <tr> <th>t_{N1}, t_{N2}, d, D [mm]</th> <th>4,00</th> <th>5,00</th> <th>6,00</th> <th>7,00</th> <th>8,00</th> <th>$\geq 10,0$</th> <th>—</th> <th>—</th> <th>—</th> </tr> </thead> <tbody> <tr> <td rowspan="8">$V_{R,k}$ [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> </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> </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> </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> </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> </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> </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> </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> </tr> <tr> <td rowspan="8">$N_{R,k}$ [kN]</td> <td>0,40</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> <td>—</td> </tr> <tr> <td>0,50</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> <td>—</td> </tr> <tr> <td>0,55</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> <td>—</td> </tr> <tr> <td>0,60</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> <td>—</td> </tr> <tr> <td>0,63</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> <td>—</td> </tr> <tr> <td>0,75</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> <td>—</td> </tr> <tr> <td>0,88</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> <td>—</td> </tr> <tr> <td>1,00</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>—</td> <td>—</td> </tr> <tr> <td rowspan="6">u [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> </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> </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> </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> </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> </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> </tr> <tr> <td>≥ 100</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> </tr> <tr> <td>$N_{R,k,II}$ [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>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	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	—	—	—									
t_{N1}, t_{N2}, d, D [mm]	4,00	5,00	6,00	7,00	8,00	$\geq 10,0$	—	—	—																																																																																																																																																																																																																																						
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	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	—	—																																																																																																																																																																																																																																						
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	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	—	—																																																																																																																																																																																																																																						
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	70	4,7	4,7	4,7	4,7	4,7	4,7	—	—																																																																																																																																																																																																																																						
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$N_{R,k,II}$ [kN]	7,94	7,94	7,94	7,94	7,94	7,94	—	—	—																																																																																																																																																																																																																																						
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Anhang 6:
ETA-13/0179, Anhang 13

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD - EN 10346</p> <p>Bauteil II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																																																	
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<table border="1"> <thead> <tr> <th>t_{N1}, t_{N2}, d, D [mm]</th> <th>4,00</th> <th>5,00</th> <th>6,00</th> <th>7,00</th> <th>8,00</th> <th>$\geq 10,0$</th> <th>—</th> <th>—</th> <th>—</th> </tr> </thead> <tbody> <tr> <td rowspan="8">$V_{R,k}$ [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">$N_{R,k}$ [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">u [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>≥ 100</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>$N_{R,k,II}$ [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]	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	—	—	—				
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Hilti S-CDH 65 C 5,5 x L Hilti S-CDH 75 C 5,5 x L mit Sechskantkopf und Dichtscheibe $\geq \varnothing 19$ mm								Anhang 13																																																																																																																																																																																																																																																										

Anhang 7:
ETA-13/0179, Anhang 14

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD - EN 10346</p> <p>Bauteil II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																								
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<table border="1"> <thead> <tr> <th>t_{N1}, t_{N2}, d, D [mm]</th> <th>4,00</th> <th>5,00</th> <th>6,00</th> <th>7,00</th> <th>8,00</th> <th>≥ 10,0</th> <th>—</th> <th>—</th> <th>—</th> </tr> </thead> <tbody> <tr> <td rowspan="8">$V_{R,k}$ [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> </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> </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> </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> </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> </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> </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> </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> </tr> <tr> <td rowspan="8">$N_{R,k}$ [kN]</td> <td>0,40</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> <td>—</td> </tr> <tr> <td>0,50</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> <td>—</td> </tr> <tr> <td>0,55</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> <td>—</td> </tr> <tr> <td>0,60</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> <td>—</td> </tr> <tr> <td>0,63</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> <td>—</td> </tr> <tr> <td>0,75</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> <td>—</td> </tr> <tr> <td>0,88</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> <td>—</td> </tr> <tr> <td>1,00</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>4,41</td> <td>—</td> <td>—</td> </tr> <tr> <td rowspan="7">u [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> </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> </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> </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> </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> </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> </tr> <tr> <td>≥ 100</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> </tr> <tr> <td>$N_{R,k,II}$ [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>—</td> <td>—</td> </tr> </tbody> </table>	t_{N1}, t_{N2}, d, D [mm]	4,00	5,00	6,00	7,00	8,00	≥ 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	—	—				
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Anhang 8:
ETA-13/0179, Anhang 15

	<p>Material:</p> <p>Schraube: Kohlenstoffstahl, einsatzgehärtet und beschichtet</p> <p>Scheibe: Aluminiumlegierung EN AW-5754 - EN 485</p> <p>Bauteil I: S280GD, S320GD, S350GD - EN 10346</p> <p>Bauteil II: S235, S275, S355 - EN 10025-1 S280GD, S320GD, S350GD - EN 10346</p>																																																																																																																																																																																																																																																																						
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