

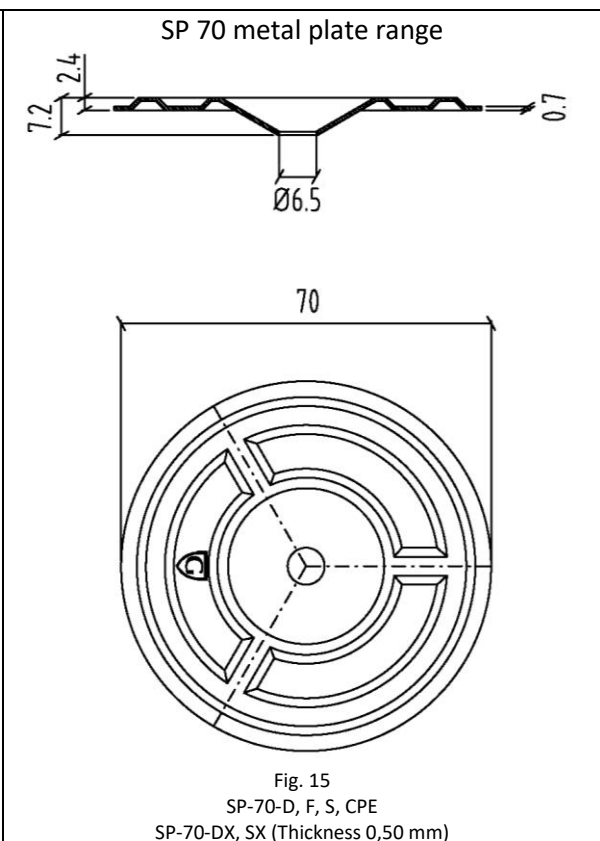
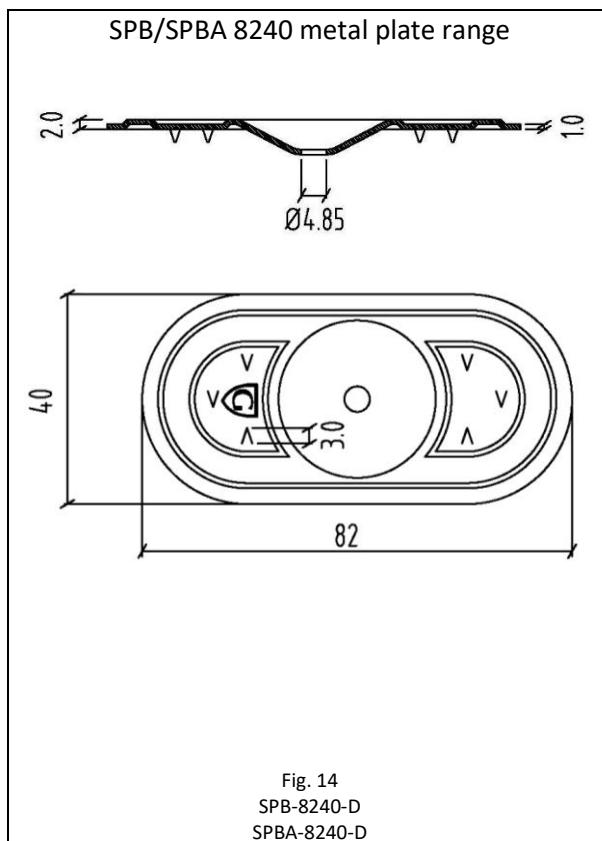
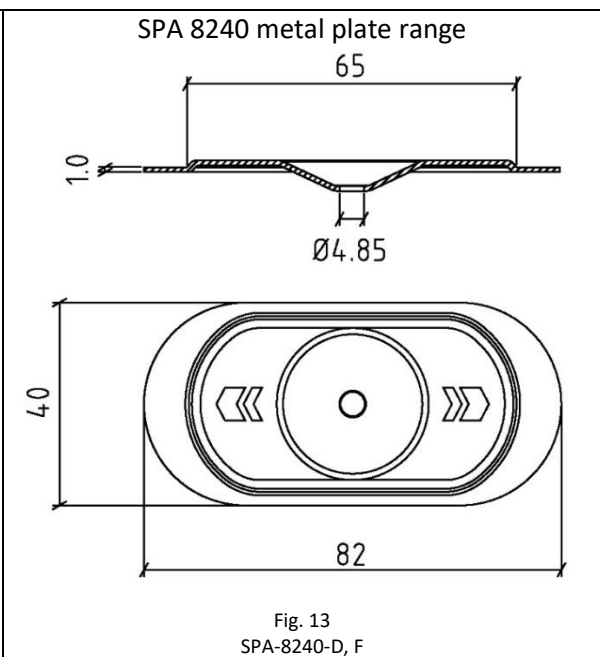
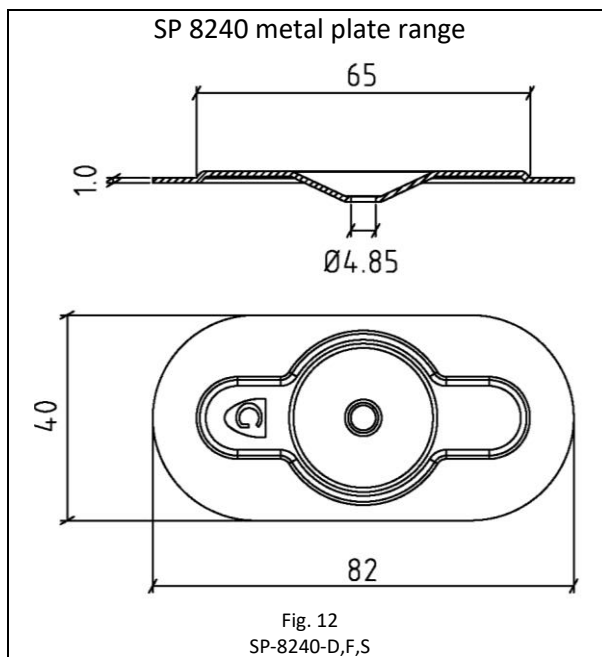


Table 6: Pullover test of washer

Washer	Fastener ¹³⁾ Guardian																R _k : Characteristic values of axial load resistance	Durability according to EAD 030351- 00-0402
	ACS 6.1	BS 4.8	BS 5.5	BS 6.1	BS 6.8	BSHD 4.8	BSRF 4.8	CS 6.1 / CS S 6.1	DBT 4.8(-A)	DBT-S-4.8(-A)	HD 6.1	LBS 6.0 / LBS S 6.0	LBS-8.0 / LBS S 8.0	PS 4.8	TS 5.2			
SP-40 – D/F/DD/FD	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.88	Approved	
SP-40-LBS	-												X			4.29	Approved	
SP-50-D. F. S	-	X	X	X	X	X	X	X	-	-	X	X	X	X	X	4.83	Approved	
SPB-50-S	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	4.83	Approved	
SP-70-D. F. S	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	2.88	Approved	
SP 8240-D/F/S	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	5.30	Approved	
SPA 8240-D/F	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	5.00	Approved	
STBS	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.68	Approved	
Sleeve R23 – STBT	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.78	Approved	
Sleeve R23 – STBS7T15	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.78	Approved	
Guardian screw-STBS7T15	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.68	Approved	
STBST	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.68	Approved	
Sarnabar + R23	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.78	Approved	
Sarnabar + Guardian screw	-	X	X	X	X	X	X	X	X	X	X	X	-	X	X	5.00	Approved	
GWSP (*)-80-F2E	-	-	X	X	X	-	-	X	-	-	-	X	-	-	X	2.48	Approved	
Sleeve GWT + GWSP (*)-80-F4E	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.17	Approved	
Sleeve R 50	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve R 48	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve RPA 48	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.00	Approved	
Sleeve RB 48	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve RBPA 48	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	3.00	Approved	
Sleeve RBS 50	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve R 75	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve TBPP 8040	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	1.58	Approved	
Sleeve TBPA 8040	-	X	X	X	X	X	X	X	-	-	X	X	-	X	X	2.52	Approved	
PP 45	-	X	X	X	-	X	X	X	-	-	-	X	-	X	X	2.50	Approved	
Sleeve ASTL-50	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.58	Approved	
Sleeve ASTL 48 / ASTL 50	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.58	Approved	
Sleeve ASTL 75	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.58	Approved	
Sleeve R50-LN	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	1.58	Approved	
Sleeve R48-LN	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	1.58	Approved	
Sleeve R75-LN	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	1.58	Approved	

¹³⁾Obtained values from the axial load test in different substrates (table 2 - 5) and the pullover test (table 6) of washers/sleeves are compared and the lowest of the two gives the characteristic value for the fastener / sleeve, washer combination of the application.