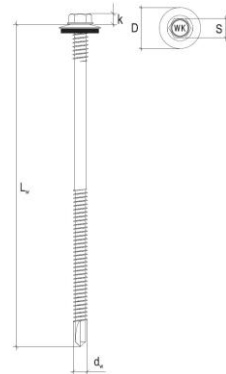


DECLARATION OF PERFORMANCE No 27/SZ/16

1. Unique identification code of the product-type: **WSW, WSWx, WSWOC, A2-WSW**
2. Intended use/es: **Fastening screws for sandwich panels**
3. Manufacturer: **KLIMAS Sp. z o.o.
ul. Wincentego Witosa 135/137
Kuźnica Kiedrzyńska 42-233 Mykanów**
4. Authorised representative: **not applicable**
5. System/s of AVCP: **system 2+**
6. European Assessment Document:
 - a) **European Assessment Document (EAD) 330047-01-0602
„Fastening screws for sandwich panels”**
 - b) **European Technical Assessments – ETA-16/0444 of 30/06/2016**
 - c) **Instytut Techniki Budowlanej**
 - d) **Identification number of notified body- 1488**
7. Declared performance/s:

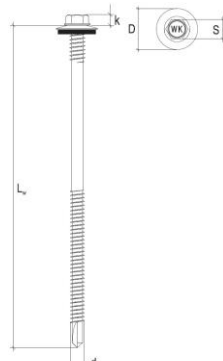
Self-drilling screws with hexagon head and sealing washer $\phi 16$ - WSWOC-6-5,5 x L, WSWx-6-5,5 x L, WSW-6-5,5 x L						
Material Fastener:		carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating				
Washer:		EPDM sealing ring with metal top made of coated carbon steel or stainless steel				
Component I:		S280GD, S320GD or S350GD – EN 10346				
Component II:		$t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346				
Drilling capacity:		$\Sigma(t_{N2} + t_{II}) \leq 6$ mm				
Timber substructures		no performance assessed				
Characteristic resistance of shear and pull-out load						
Component II: t_{II} in [mm]		2,00	2,50	3,00	4,00	5,00
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64
		0,50	2,37	2,37	2,37	3,02
		0,55	2,37	2,37	2,37	3,02
		0,63	2,37	2,37	2,37	3,91
		0,75	2,37	2,37	2,37	4,17
		0,88	2,37	2,37	2,37	4,17
		1,00	2,37	2,37	2,37	4,17



$L_w = 50-300$ mm
 $d_w = 5,5$ mm
 $D = 16$ mm

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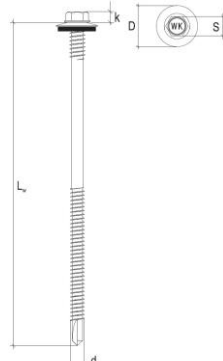
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	1,5	1,5
	40	12	12	12	1,5	1,5
	50	12	12	12	1,5	1,5
	60	18	18	18	4	4
	70	18	18	18	4	4
	80	18	18	18	4	4
	90	23	23	23	10	10
	100	23	23	23	10	10
	120	23	23	23	10	10
	>140	23	23	23	10	10

Self-drilling screws with hexagon head and sealing washer $\phi 16$ - WSWOC-6-5,5 x L, WSWx-6-5,5 x L, WSW-6-5,5 x L	
<p><u>Material</u> Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating</p> <p>Washer:: EPDM sealing ring with metal top made of aluminium</p> <p>Component I: S280GD, S320GD or S350GD – EN 10346</p> <p>Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346</p>	 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D = 16$ mm</p>
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm	
<u>Timber substructures</u> no performance assessed	

Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]		2,00	2,50	3,00	4,00	5,00	
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64
		0,50	2,37	2,37	2,37	2,98	2,98
		0,55	2,37	2,37	2,37	2,98	2,98
		0,63	2,37	2,37	2,37	3,80	3,80
		0,75	2,37	2,37	2,37	3,99	3,99
		0,88	2,37	2,37	2,37	3,99	3,99
		1,00	2,37	2,37	2,37	3,99	3,99
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	1,5	1,5	
	40	12	12	12	1,5	1,5	
	50	12	12	12	1,5	1,5	
	60	18	18	18	4	4	
	70	18	18	18	4	4	
	80	18	18	18	4	4	

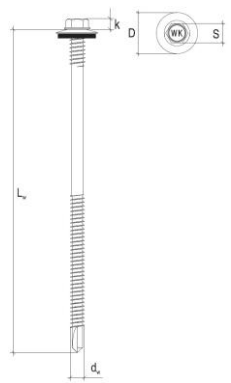
DECLARATION OF PERFORMANCE No 27/SZ/16

	80	18	18	18	4	4
	90	23	23	23	10	10
	100	23	23	23	10	10
	120	23	23	23	10	10
	>140	23	23	23	10	10

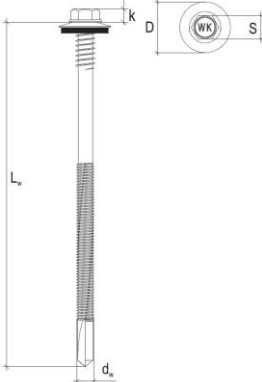
Self-drilling screws with hexagon head and sealing washer $\phi 19$ - WSWOC-6-5,5 x L, WSWx-6-5,5 x L, WSW-6-5,5 x L	
<p>Material Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating</p> <p>Washer: EPDM sealing ring with metal top made of coated carbon steel or stainless steel</p> <p>Component I: S280GD, S320GD or S350GD – EN 10346</p> <p>Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346</p>	 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm	
<p>Timber substructures no performance assessed</p>	

Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]		2,00	2,50	3,00	4,00	5,00	
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83
		0,50	2,37	2,37	2,37	3,14	3,14
		0,55	2,37	2,37	2,37	3,14	3,14
		0,63	2,37	2,37	2,37	4,21	4,21
		0,75	2,37	2,37	2,37	4,62	4,62
		0,88	2,37	2,37	2,37	4,62	4,62
		1,00	2,37	2,37	2,37	4,62	4,62
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	1,5	1,5	
	40	12	12	12	1,5	1,5	
	50	12	12	12	1,5	1,5	
	60	18	18	18	4	4	
	70	18	18	18	4	4	
	80	18	18	18	4	4	
	90	23	23	23	10	10	
	100	23	23	23	10	10	
	>140	23	23	23	10	10	

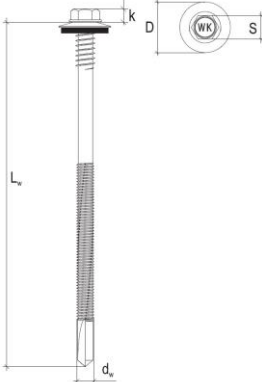
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Self-drilling screws with hexagon head and sealing washer $\phi 19$ - WSWOC-6-5,5 x L, WSWx-6-5,5 x L, WSW-6-5,5 x L							
<p><u>Material</u> Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating</p> <p>Washer: EPDM sealing ring with metal top made of aluminium</p> <p>Component I: S280GD, S320GD or S350GD – EN 10346</p> <p>Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346</p>			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>				
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm							
<p><u>Timber substructures</u> no performance assessed</p>							
Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]		2,00	2,50	3,00	4,00	5,00	
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83
		0,50	2,37	2,37	2,37	3,17	3,17
		0,55	2,37	2,37	2,37	3,17	3,17
		0,63	2,37	2,37	2,37	4,04	4,04
		0,75	2,37	2,37	2,37	4,64	4,64
		0,88	2,37	2,37	2,37	4,64	4,64
		1,00	2,37	2,37	2,37	4,64	4,64
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	12	1,5	
	40	12	12	12	12	1,5	
	50	12	12	12	12	1,5	
	60	18	18	18	18	4	
	70	18	18	18	18	4	
	80	18	18	18	18	4	
	90	23	23	23	23	10	
	100	23	23	23	23	10	
	>140	23	23	23	23	10	

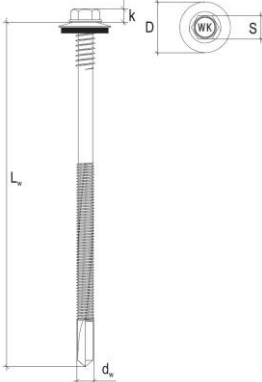
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16$ - WSWOC-12-5,5 x L, WSWx-12-5,5 x L, WSW-12-5,5 x L									
<p><u>Material</u> Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating</p> <p>Washer: EPDM sealing ring with metal top made of coated carbon steel or stainless steel</p> <p>Component I: S280GD, S320GD or S350GD – EN 10346</p> <p>Component II: S280GD, S320GD or S350GD – EN 10346</p>								<p>$L_w = 50-300 \text{ mm}$ $d_w = 5,5 \text{ mm}$ $D = 16 \text{ mm}$</p>	
<p>Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12 \text{ mm}$</p>									
<p><u>Timber substructures</u> no performance assessed</p>									
Characteristic resistance of shear and pull-out load									
Component II: t_{II} in [mm]		4,00	5,00	6,00	8,00	10,00	11,00		
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83		
		0,50	1,33	1,33	1,33	1,33	1,33		
		0,55	1,33	1,33	1,33	1,33	1,33		
		0,63	1,62	1,62	1,62	1,62	1,62		
		0,75	1,91	1,91	1,91	1,91	1,91		
		0,88	1,91	1,91	1,91	1,91	1,91		
		1,00	1,91	1,91	1,91	1,91	1,91		
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64		
		0,50	3,02	3,02	3,02	3,02	3,02		
		0,55	3,02	3,02	3,02	3,02	3,02		
		0,63	3,91	3,91	3,91	3,91	3,91		
		0,75	4,17	4,17	4,17	4,17	4,17		
		0,88	4,17	4,17	4,17	4,17	4,17		
		1,00	4,17	4,17	4,17	4,17	4,17		
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5			
	40	1,5	1,5	1,5	1,5	1,5			
	50	1,5	1,5	1,5	1,5	1,5			
	60	4	4	4	4	4			
	70	4	4	4	4	4			
	80	4	4	4	4	4			
	90	6	6	6	6	6			
	100	6	6	6	6	6			
	>140	6	6	6	6	6			

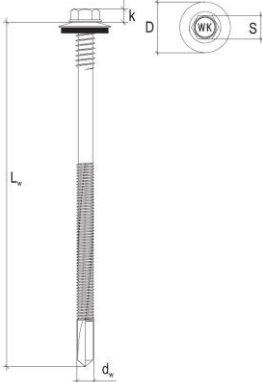
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16$ - WSWOC-12-5,5 x L, WSWx-12-5,5 x L, WSW-12-5,5 x L										
Material Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating Washer: EPDM sealing ring with metal top made of aluminium Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S280GD, S320GD or S350GD – EN 10346									L _w = 50-300 mm d _w = 5,5 mm D = 16 mm	
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12$ mm										
Timber substructures no performance assessed										
Characteristic resistance of shear and pull-out load										
Component II: t _{II} in [mm]			4,00	5,00	6,00	8,00	10,00	11,00		
Component I: t _{N,1} or t _{N,2} in [mm]	Shear load V _{R,k} [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83		
		0,50	1,33	1,33	1,33	1,33	1,33	1,33		
		0,55	1,33	1,33	1,33	1,33	1,33	1,33		
		0,63	1,62	1,62	1,62	1,62	1,62	1,62		
		0,75	1,91	1,91	1,91	1,91	1,91	1,91		
		0,88	1,91	1,91	1,91	1,91	1,91	1,91		
		1,00	1,91	1,91	1,91	1,91	1,91	1,91		
	Pull-out load N _{R,k} [kN]	0,40	1,64	1,64	1,64	1,64	1,64	1,64		
		0,50	2,98	2,98	2,98	2,98	2,98	2,98		
		0,55	2,98	2,98	2,98	2,98	2,98	2,98		
		0,63	3,80	3,80	3,80	3,80	3,80	3,80		
		0,75	3,99	3,99	3,99	3,99	3,99	3,99		
		0,88	3,99	3,99	3,99	3,99	3,99	3,99		
		1,00	3,99	3,99	3,99	3,99	3,99	3,99		
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5			
	40	1,5	1,5	1,5	1,5	1,5	1,5			
	50	1,5	1,5	1,5	1,5	1,5	1,5			
	60	4	4	4	4	4	4			
	70	4	4	4	4	4	4			
	80	4	4	4	4	4	4			
	90	6	6	6	6	6	6			
	100	6	6	6	6	6	6			
	120	6	6	6	6	6	6			
>140	6	6	6	6	6	6				

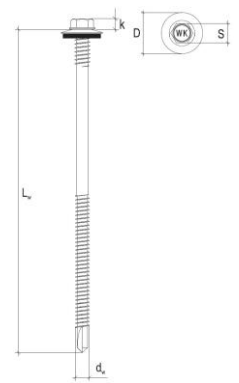
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19$ - WSWOC-12-5,5 x L, WSWx-12-5,5 x L, WSW-12-5,5 x L									
<u>Material</u>									 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>
Fastener:	carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating								
Washer:	EPDM sealing ring with metal top made of coated carbon steel or stainless steel								
Component I:	S280GD, S320GD or S350GD – EN 10346								
Component II:	S280GD, S320GD or S350GD – EN 10346								
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12$ mm									
<u>Timber substructures</u>		no performance assessed							
Characteristic resistance of shear and pull-out load									
		Component II: t_{II} in [mm]	4,00	5,00	6,00	8,00	10,00	11,00	
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83	
		0,50	1,33	1,33	1,33	1,33	1,33	1,33	
		0,55	1,33	1,33	1,33	1,33	1,33	1,33	
		0,63	1,62	1,62	1,62	1,62	1,62	1,62	
		0,75	1,91	1,91	1,91	1,91	1,91	1,91	
		0,88	1,91	1,91	1,91	1,91	1,91	1,91	
		1,00	1,91	1,91	1,91	1,91	1,91	1,91	
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83	1,83	
		0,50	3,14	3,14	3,14	3,14	3,14	3,14	
		0,55	3,14	3,14	3,14	3,14	3,14	3,14	
		0,63	4,21	4,21	4,21	4,21	4,21	4,21	
		0,75	4,62	4,62	4,62	4,62	4,62	4,62	
		0,88	4,62	4,62	4,62	4,62	4,62	4,62	
		1,00	4,62	4,62	4,62	4,62	4,62	4,62	
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5		
	40	1,5	1,5	1,5	1,5	1,5	1,5		
	50	1,5	1,5	1,5	1,5	1,5	1,5		
	60	4	4	4	4	4	4		
	70	4	4	4	4	4	4		
	80	4	4	4	4	4	4		
	90	6	6	6	6	6	6		
	100	6	6	6	6	6	6		
	120	6	6	6	6	6	6		
>140	6	6	6	6	6	6			

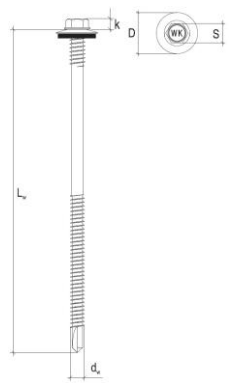
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19$ - WSWOC-12-5,5 x L, WSWx-12-5,5 x L, WSW-12-5,5 x L										
<p>Material Fastener: carbon steel – SAE1022 quenched, tempered and galvanized or galvanized and additionally protected by ceramic coating</p> <p>Washer: EPDM sealing ring with metal top made of aluminium</p> <p>Component I: S280GD, S320GD or S350GD – EN 10346</p> <p>Component II: S280GD, S320GD or S350GD – EN 10346</p>									<p>$L_w = 50-300 \text{ mm}$ $d_w = 5,5 \text{ mm}$ $D \geq 19 \text{ mm}$</p>	
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12 \text{ mm}$										
<p>Timber substructures no performance assessed</p>										
Characteristic resistance of shear and pull-out load										
Component II: t_{II} in [mm]			4,00	5,00	6,00	8,00	10,00	11,00		
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83		
		0,50	1,33	1,33	1,33	1,33	1,33	1,33		
		0,55	1,33	1,33	1,33	1,33	1,33	1,33		
		0,63	1,62	1,62	1,62	1,62	1,62	1,62		
		0,75	1,91	1,91	1,91	1,91	1,91	1,91		
		0,88	1,91	1,91	1,91	1,91	1,91	1,91		
		1,00	1,91	1,91	1,91	1,91	1,91	1,91		
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83	1,83		
		0,50	3,17	3,17	3,17	3,17	3,17	3,17		
		0,55	3,17	3,17	3,17	3,17	3,17	3,17		
		0,63	4,04	4,04	4,04	4,04	4,04	4,04		
		0,75	4,64	4,64	4,64	4,64	4,64	4,64		
		0,88	4,64	4,64	4,64	4,64	4,64	4,64		
		1,00	4,64	4,64	4,64	4,64	4,64	4,64		
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5			
	40	1,5	1,5	1,5	1,5	1,5	1,5			
	50	1,5	1,5	1,5	1,5	1,5	1,5			
	60	4	4	4	4	4	4			
	70	4	4	4	4	4	4			
	80	4	4	4	4	4	4			
	90	6	6	6	6	6	6			
	100	6	6	6	6	6	6			
	120	6	6	6	6	6	6			
>140	6	6	6	6	6	6				

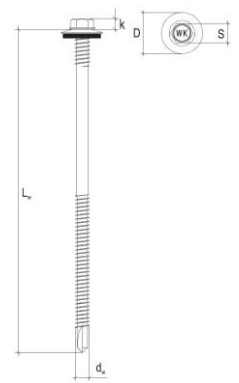
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16$ – A2-WSW-6-5,5 x L							
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of stainless steel Component I: S280GD, S320GD or S350GD – EN 10346 Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D = 16$ mm</p>				
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm							
Timber substructures no performance assessed							
Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]			2,00	2,50	3,00	4,00	5,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64
		0,50	2,36	2,36	2,36	3,02	3,02
		0,55	2,36	2,36	2,36	3,02	3,02
		0,63	2,36	2,36	2,36	3,91	3,91
		0,75	2,36	2,36	2,36	4,17	4,17
		0,88	2,36	2,36	2,36	4,17	4,17
		1,00	2,36	2,36	2,36	4,17	4,17
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	12	1,5	
	40	12	12	12	12	1,5	
	50	12	12	12	12	1,5	
	60	18	18	18	18	4	
	70	18	18	18	18	4	
	80	18	18	18	18	4	
	90	23	23	23	23	10	
	100	23	23	23	23	10	
	>140	23	23	23	23	10	

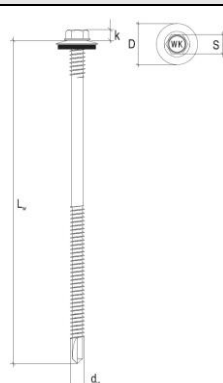
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16$ – A2-WSW-6-5,5 x L							
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of aluminium Component I: S280GD, S320GD or S350GD – EN 10346 Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D = 16$ mm</p>				
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm							
Timber substructures no performance assessed							
Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]			2,00	2,50	3,00	4,00	5,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64
		0,50	2,36	2,36	2,36	2,98	2,98
		0,55	2,36	2,36	2,36	2,98	2,98
		0,63	2,36	2,36	2,36	3,80	3,80
		0,75	2,36	2,36	2,36	3,99	3,99
		0,88	2,36	2,36	2,36	3,99	3,99
		1,00	2,36	2,36	2,36	3,99	3,99
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	12	1,5	
	40	12	12	12	12	1,5	
	50	12	12	12	12	1,5	
	60	18	18	18	18	4	
	70	18	18	18	18	4	
	80	18	18	18	18	4	
	90	23	23	23	23	10	
	100	23	23	23	23	10	
	>140	23	23	23	23	10	

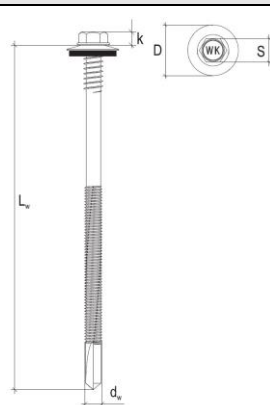
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19$ – A2-WSW-6-5,5 x L							
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of stainless steel Component I: S280GD, S320GD or S350GD – EN 10346 Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>				
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm							
Timber substructures no performance assessed							
Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]			2,00	2,50	3,00	4,00	5,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83
		0,50	2,36	2,36	2,36	3,14	3,14
		0,55	2,36	2,36	2,36	3,14	3,14
		0,63	2,36	2,36	2,36	4,21	4,21
		0,75	2,36	2,36	2,36	4,62	4,62
		0,88	2,36	2,36	2,36	4,62	4,62
		1,00	2,36	2,36	2,36	4,62	4,62
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	12	1,5	
	40	12	12	12	12	1,5	
	50	12	12	12	12	1,5	
	60	18	18	18	18	4	
	70	18	18	18	18	4	
	80	18	18	18	18	4	
	90	23	23	23	23	10	
	100	23	23	23	23	10	
	>140	23	23	23	23	10	

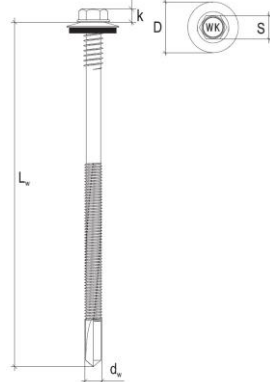
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19$ – A2-WSW-6-5,5 x L							
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of aluminium Component I: S280GD, S320GD or S350GD – EN 10346 Component II: $t_{II} < 4$ mm: S235 – EN 10025-1 $t_{II} \geq 4$ mm: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>				
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 6$ mm							
Timber substructures no performance assessed							
Characteristic resistance of shear and pull-out load							
Component II: t_{II} in [mm]			2,00	2,50	3,00	4,00	5,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83
		0,50	1,31	1,31	1,31	1,31	1,31
		0,55	1,31	1,31	1,31	1,31	1,31
		0,63	1,63	1,63	1,63	1,63	1,63
		0,75	1,93	1,93	1,93	1,93	1,93
		0,88	1,93	1,93	1,93	1,93	1,93
		1,00	1,93	1,93	1,93	1,93	1,93
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83
		0,50	2,36	2,36	2,36	3,17	3,17
		0,55	2,36	2,36	2,36	3,17	3,17
		0,63	2,36	2,36	2,36	4,04	4,04
		0,75	2,36	2,36	2,36	4,64	4,64
		0,88	2,36	2,36	2,36	4,64	4,64
		1,00	2,36	2,36	2,36	4,64	4,64
max. head displacement u depending on the sandwich panel thickness in [mm]	30	12	12	12	12	1,5	
	40	12	12	12	12	1,5	
	50	12	12	12	12	1,5	
	60	18	18	18	18	4	
	70	18	18	18	18	4	
	80	18	18	18	18	4	
	90	23	23	23	23	10	
	100	23	23	23	23	10	
	>140	23	23	23	23	10	

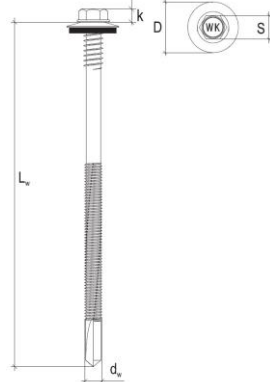
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16 - A2-WSW-12-5,5 \times L$								
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of stainless steel Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300 \text{ mm}$ $d_w = 5,5 \text{ mm}$ $D = 16 \text{ mm}$</p>					
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12 \text{ mm}$								
Timber substructures no performance assessed								
Characteristic resistance of shear and pull-out load								
Component II: t_{II} in [mm]			4,00	5,00	6,00	8,00	10,00	11,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	1,33	1,33	1,33	1,33	1,33	1,33
		0,55	1,33	1,33	1,33	1,33	1,33	1,33
		0,63	1,62	1,62	1,62	1,62	1,62	1,62
		0,75	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,91	1,91	1,91	1,91	1,91	1,91
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64	1,64
		0,50	3,02	3,02	3,02	3,02	3,02	3,02
		0,55	3,02	3,02	3,02	3,02	3,02	3,02
		0,63	3,91	3,91	3,91	3,91	3,91	3,91
		0,75	4,17	4,17	4,17	4,17	4,17	4,17
		0,88	4,17	4,17	4,17	4,17	4,17	4,17
		1,00	4,17	4,17	4,17	4,17	4,17	4,17
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5	
	40	1,5	1,5	1,5	1,5	1,5	1,5	
	50	1,5	1,5	1,5	1,5	1,5	1,5	
	60	4	4	4	4	4	4	
	70	4	4	4	4	4	4	
	80	4	4	4	4	4	4	
	90	6	6	6	6	6	6	
	100	6	6	6	6	6	6	
	120	6	6	6	6	6	6	
>140	6	6	6	6	6	6		

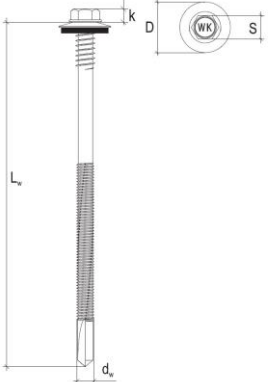
DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 16 - A2\text{-WSW-12-5,5} \times L$								
<p><u>Material</u> Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of aluminium Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S280GD, S320GD or S350GD – EN 10346</p>							 <p>$L_w = 50\text{-}300 \text{ mm}$ $d_w = 5,5 \text{ mm}$ $D = 16 \text{ mm}$</p>	
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12 \text{ mm}$								
<p><u>Timber substructures</u> no performance assessed</p>								
Characteristic resistance of shear and pull-out load								
Component II: t_{II} in [mm]			4,00	5,00	6,00	8,00	10,00	11,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	1,33	1,33	1,33	1,33	1,33	1,33
		0,55	1,33	1,33	1,33	1,33	1,33	1,33
		0,63	1,62	1,62	1,62	1,62	1,62	1,62
		0,75	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,91	1,91	1,91	1,91	1,91	1,91
	Pull-out load $N_{R,k}$ [kN]	0,40	1,64	1,64	1,64	1,64	1,64	1,64
		0,50	2,98	2,98	2,98	2,98	2,98	2,98
		0,55	2,98	2,98	2,98	2,98	2,98	2,98
		0,63	3,80	3,80	3,80	3,80	3,80	3,80
		0,75	3,99	3,99	3,99	3,99	3,99	3,99
		0,88	3,99	3,99	3,99	3,99	3,99	3,99
		1,00	3,99	3,99	3,99	3,99	3,99	3,99
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5	
	40	1,5	1,5	1,5	1,5	1,5	1,5	
	50	1,5	1,5	1,5	1,5	1,5	1,5	
	60	4	4	4	4	4	4	
	70	4	4	4	4	4	4	
	80	4	4	4	4	4	4	
	90	6	6	6	6	6	6	
	100	6	6	6	6	6	6	
	120	6	6	6	6	6	6	
	>140	6	6	6	6	6	6	

DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19 - A2-WSW-12-5,5 \times L$								
<p><u>Material</u> Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of stainless steel Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S280GD, S320GD or S350GD – EN 10346</p>						 <p>$L_w = 50-300 \text{ mm}$ $d_w = 5,5 \text{ mm}$ $D \geq 19 \text{ mm}$</p>		
<p>Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12 \text{ mm}$</p>								
<p><u>Timber substructures</u> no performance assessed</p>								
Characteristic resistance of shear and pull-out load								
		Component II: t_{II} in [mm]	4,00	5,00	6,00	8,00	10,00	11,00
Component I: $t_{N,1}$ or $t_{N,2}$ in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	1,33	1,33	1,33	1,33	1,33	1,33
		0,55	1,33	1,33	1,33	1,33	1,33	1,33
		0,63	1,62	1,62	1,62	1,62	1,62	1,62
		0,75	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,91	1,91	1,91	1,91	1,91	1,91
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83	1,83
		0,50	3,14	3,14	3,14	3,14	3,14	3,14
		0,55	3,14	3,14	3,14	3,14	3,14	3,14
		0,63	4,21	4,21	4,21	4,21	4,21	4,21
		0,75	4,62	4,62	4,62	4,62	4,62	4,62
		0,88	4,62	4,62	4,62	4,62	4,62	4,62
		1,00	4,62	4,62	4,62	4,62	4,62	4,62
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5	
	40	1,5	1,5	1,5	1,5	1,5	1,5	
	50	1,5	1,5	1,5	1,5	1,5	1,5	
	60	4	4	4	4	4	4	
	70	4	4	4	4	4	4	
	80	4	4	4	4	4	4	
	90	6	6	6	6	6	6	
	100	6	6	6	6	6	6	
	120	6	6	6	6	6	6	
>140	6	6	6	6	6	6		

DECLARATION OF PERFORMANCE No 27/SZ/16

Self-drilling screws with hexagon head and sealing washer $\phi 19$ – A2-WSW-12-5,5 x L								
Material Fastener: stainless steel – SAE304, bi-metal Washer: EPDM sealing ring with metal top made of aluminium Component I: S280GD, S320GD or S350GD – EN 10346 Component II: S280GD, S320GD or S350GD – EN 10346			 <p>$L_w = 50-300$ mm $d_w = 5,5$ mm $D \geq 19$ mm</p>					
Drilling capacity: $\Sigma(t_{N2} + t_{II}) \leq 12$ mm								
Timber substructures no performance assessed								
Characteristic resistance of shear and pull-out load								
Component II: t_{II} in [mm]			4,00	5,00	6,00	8,00	10,00	11,00
Component I: t_{N1} or t_{N2} in [mm]	Shear load $V_{R,k}$ [kN]	0,40	0,83	0,83	0,83	0,83	0,83	0,83
		0,50	1,33	1,33	1,33	1,33	1,33	1,33
		0,55	1,33	1,33	1,33	1,33	1,33	1,33
		0,63	1,62	1,62	1,62	1,62	1,62	1,62
		0,75	1,91	1,91	1,91	1,91	1,91	1,91
		0,88	1,91	1,91	1,91	1,91	1,91	1,91
		1,00	1,91	1,91	1,91	1,91	1,91	1,91
	Pull-out load $N_{R,k}$ [kN]	0,40	1,83	1,83	1,83	1,83	1,83	1,83
		0,50	3,17	3,17	3,17	3,17	3,17	3,17
		0,55	3,17	3,17	3,17	3,17	3,17	3,17
		0,63	4,04	4,04	4,04	4,04	4,04	4,04
		0,75	4,64	4,64	4,64	4,64	4,64	4,64
		0,88	4,64	4,64	4,64	4,64	4,64	4,64
		1,00	4,64	4,64	4,64	4,64	4,64	4,64
max. head displacement u depending on the sandwich panel thickness in [mm]	30	1,5	1,5	1,5	1,5	1,5	1,5	
	40	1,5	1,5	1,5	1,5	1,5	1,5	
	50	1,5	1,5	1,5	1,5	1,5	1,5	
	60	4	4	4	4	4	4	
	70	4	4	4	4	4	4	
	80	4	4	4	4	4	4	
	90	6	6	6	6	6	6	
	100	6	6	6	6	6	6	
	120	6	6	6	6	6	6	
>140	6	6	6	6	6	6		

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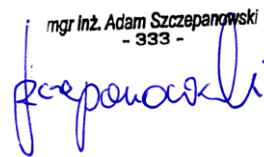
8. Appropriate Technical Documentation and/or Specific Technical Documentation: **not applicable**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Kuźnica Kiedrzyńska
24.08.2016r.
(place and date of issue)

Adam Szczepanowski
DORADCA TECHNICZNY

mgr inż. Adam Szczepanowski
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(signature)