

R-ONR-55/63 Zinc flake self-drilling screws up to 12mm

Special zinc flake corrosion-resistant coating for highly effective protection







Approvals and Reports

• ETA-17/0518







Product information

Features and benefits

- · Hardened screw's thread surface. High quality anti-corrosion coating guarantees resistance of 15 Kesternich cycles.
- · Coloured polyester protective coating with a thickness of 45-50 um (RAL, NCS, RR), provides additional protection against corrosion. Various colours available to suit all metal sheet variants. UV stabilizers ensure colour quality over a long period of use.
- The shape of the thread and its height is designed for applications into sandwich panels and steel construction.
- · Two types of threads: one designed for mounting into a steel structure, second under head thread, prevents external panel dents and helps to seal the connection.
- Self vulcanizing EPDM washer. Temperature and UV resistant. The special shape of the washer ensures proper seating of the sealing material on the outer cladding material fixture which guarantees a proper seal.

Applications

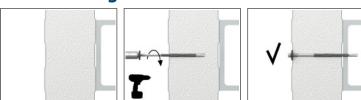
- · For fixing of: Composite panels to thick wall hot rolled steel sections
- · For fixing of: Composite panels to cold formed sections structures

Base materials

Approved for use in:

• Structural Steel up to 12mm

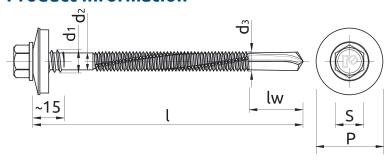
Installation guide



- 1. Screw must be installed at 90 degrees to substrate.
- 2. Magnetic driver must be used.
- 3. Lowest torque setting on impact screwdriver to start.
- 4. Reduce speed when the washer starts to deform.
- 5. Use a cordless Impact screwdriver. Note: Never use a power drill.
- 6. For installation please use screwdriver of load capacity 1600 2000 rpm with regulated trogue.

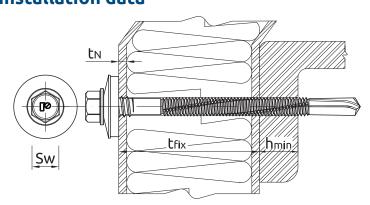


Product information



Size	Product Code		Sci	rew	Fixture			
		Diameter		Length	Head size	Max. thick- ness with wa- sher		Max. drilling thickness
		d	d,	ι	s	t _{fix}		
		[mm]						
	R-ONR-55/63101A19	5.5	6.3	101	8	65	12	19
	R-ONR-55/63121A19	5.5	6.3	121	8	85	12	19
	R-ONR-55/63141A19	5.5	6.3	141	8	105	12	19
	R-ONR-55/63161A19	5.5	6.3	161	8	125	12	19
Ø5.5/6.3	R-ONR-55/63191A19	5.5	6.3	191	8	155	12	19
ws.s/6.s	R-ONR-55/63211A19	5.5	6.3	211	8	175	12	19
	R-ONR-55/63241A19	5.5	6.3	241	8	205	12	19
	R-ONR-55/63261A19	5.5	6.3	261	8	225	12	19
	R-ONR-55/63291A19	5.5	6.3	291	8	255	12	19
	R-ONR-55/63341A19	5.5	6.3	341	8	305	12	19

Installation data



Size			Ø5.5/6.3
Screw diameter	d	[mm]	5.5/6.3
Wrench size	Sw	[mm]	8
Min. substrate thickness	h _{min}	[mm]	4
Max. substrate thickness	h _{max}	[mm]	12
Min. spacing	S _{min}	[mm]	30
Min. edge distance	C _{min}	[mm]	10



Basic performance data

Performance data for single screw without influence of edge distance and spacing

Size -		TENSION LOAD	SHEAR LOAD					
Size		Ø5.5/6.3 (A19)	Ø5.5/6.3 (A19)					
MEAN ULTIMATE LOAD								
Substrate thickness ≥ 4.0 mm; tn ≥ 0.4	[kN]	2.79	1.26					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.5	[kN]	4.79	2.09					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.63	[kN]	6.06	2.70					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.75	[kN]	6.23	3.35					
CHARACTERISTIC LOAD								
Substrate thickness ≥ 4.0 mm; tn ≥ 0.4	[kN]	1.86	0.86					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.5	[kN]	3.19	1.38					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.63	[kN]	4.04	1.80					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.75	[kN]	4.15	2.23					
DESIGN LOAD								
Substrate thickness ≥ 4.0 mm; tn ≥ 0.4	[kN]	1.40	0.67					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.5	[kN]	2.40	1.04					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.63	[kN]	3.04	1.35					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.75	[kN]	3.12	1.67					
RECOMMENDED LOAD								
Substrate thickness ≥ 4.0 mm; tn ≥ 0.4	[kN]	1.00	0.47					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.5	[kN]	1.71	0.74					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.63	[kN]	2.17	0.97					
Substrate thickness ≥ 4.0 mm; tn ≥ 0.75	[kN]	2.23	1.20					

Product commercial data

	Screw	Washer size	Quantity [pcs]			Weight [kg]			
Product Code	Diameter [mm]	[mm]	Вох	Outer	Pallet	Box	Outer	Pallet	Bar Codes
R-ONR-55/63101A19	6.3	19	100	800	25600	1.89	15.1	514.3	5906675435497
R-ONR-55/63121A19	6.3	19	100	800	25600	2.2	17.7	596.9	5906675435503
R-ONR-55/63141A19	6.3	19	100	800	25600	2.5	19.9	665.3	5906675435329
R-ONR-55/63161A19	6.3	19	100	800	25600	2.8	22.1	737.0	5906675435336
R-ONR-55/63191A19	6.3	19	100	800	25600	3.2	25.2	836.3	5906675435343
R-ONR-55/63211A19	6.3	19	100	800	25600	3.4	27.3	903.2	5906675435350
R-ONR-55/63241A19	6.3	19	100	100	28800	3.8	3.8	1128.5	5906675435367
R-ONR-55/63261A19	6.3	19	100	100	11200	4.2	4.2	497.7	5906675435510
R-ONR-55/63291A19	6.3	19	100	100	11200	4.6	4.6	547.5	5906675435374
R-ONR-55/63341A19	6.3	19	100	100	11200	5.4	5.4	636.4	5906675435381

¹⁾ ETA-17/0518