

RSS SHIELD ANCHOR



3-SEGMENTS TYPE



4-SEGMENTS TYPE

FEATURES

- Through-fixing installation; prefixing installation; anchor placement flush with concrete surface.
- Shallow embedment depth, high retaining force.
- Temporary or permanent fixings.
- Large sleeve expansion produce higher loading capacity.
- Highly recommended for suspended fixings and soft base materials.
- Suitable for fixture thickness up to 70mm.
- Can accept all types of head profile fixings.
- Suitable for anchoring in tension zone.
- Rapid installation without setting the plug.

APPLICATIONS

- Awning, timber roofing works, and all types of timber fixtures.
- Electrical fittings, mechanical piping and brackets.
- Architectural finishes such as hand rails, safety barriers and paneling works.
- Light steel structure works.
- Shelving and racking fixing.

MATERIAL SPECIFICATIONS

- Carbon Steel Zinc Galvanised to min. 6 μ m

RANGE OF LOADING

1.8 kN ~ 14.4 kN (SWL)



Medium loads

RANGE OF CONCRETE QUALITY

C20/25 ~ C50/60

BASE MATERIALS



Concrete



Concrete block
solid stone



Solid brick

► ORDERING DETAILS

RSS SHIELD ANCHOR 3 SEGMENTS TYPED - ZINC GALVANISED

ANCHOR SIZE	FIXTURE HOLE DIAMETER (mm)	PACKING CONTENT (PCs.)	PRODUCT PART NO.
M6 x 45	7	100	RSS645
M8 x 50	9	50	RSS850
M10 x 60	12	50	RSS1060
M12 x 70	14	25	RSS1270



RSS SHIELD ANCHOR 4 SEGMENTS TYPED - ZINC GALVANISED

ANCHOR SIZE	FIXTURE HOLE DIAMETER (mm)	PACKING CONTENT (PCs.)	PRODUCT PART NO.
M6 x 40	7	100	RSS640Q
M8 x 50	9	50	RSS850Q
M10 x 60	12	50	RSS1060Q
M12 x 80	14	25	RSS1280Q



RSS SHIELD ANCHOR 4 SEGMENTS TYPED WITH EYE-BOLT - ZINC GALVANISED

ANCHOR SIZE	FIXTURE HOLE DIAMETER (mm)	PACKING CONTENT (PCs.)	PRODUCT PART NO.
M10 x 60	-	50	RSS1060QE

(Total anchor length including eye-bolt is 115mm)



RSS SHIELD ANCHOR 4 SEGMENTS TYPED WITH HOOK-BOLT - ZINC GALVANISED

ANCHOR SIZE	FIXTURE HOLE DIAMETER (mm)	PACKING CONTENT (PCs.)	PRODUCT PART NO.
M10 x 60	-	50	RSS1060QH

(Total anchor length including hook-bolt is 115mm)



► INSTALLATION PERIMETER & LOADING DATA

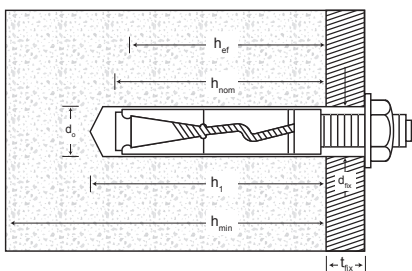
RSS SHIELD ANCHOR 3 AND 4 SEGMENTS TYPED - ZINC GALVANISED

ANCHOR SIZE	HOLE DIAMETER (mm)	MINIMUM HOLE DEPTH (mm)	MINIMUM CONCRETE THICKNESS (mm)	TIGHTENING TORQUE (Nm)	RECOMMENDED SPACING & EDGE DISTANCE TO FULL LOADS (mm)		ABSOLUTE MINIMUM SPACING & EDGE DISTANCE (mm)		RECOMMENDED LOAD (kN)	
					TENSION	SHEAR	TENSION	SHEAR	TENSION ¹	SHEAR ²
M6	12	50	75	8	90	45	30	30	1.8	3.4
M8	14	60	90	15	120	60	40	40	2.9	6.3
M10	16	70	100	30	150	75	50	50	4.4	9.9
M12	20	80	125	40	180	90	60	60	6.0	14.4

¹Loading based on standard embedment depth and non-cracked concrete, $f_{ck,cube} = 25 \text{ N/mm}^2$ (C20/25)

²Shear load based on carbon steel class 5.8. Loading can be higher if better steel grade is used.

► SETTING DIAGRAM



► INSTALLATION PROCEDURE

