

# Product Submittal

## ROK-ON™ 3 ½” or 4 ½” #12 SDS Screw with Nibs



This submittal package provides the technical specifications and mechanical properties for the **ROK-ON™ 3 ½” or 4 ½” #12 Self-Drilling Tapping Screw (SDS)**. This fastener is designed for structural applications within ROK-ON™ Building Systems.

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### 1. General Information

- **Product Name:** ROK-ON™ 3 ½” or 4 1/2" #12 SDS Screw with Nibs
- **Manufacturer:** ROK-ON Building Systems
- **Part Type:** Self-Drilling Screw (SDS) with countersinking nibs
- **Total Length:** 89 mm (approx. 3.5”) or 114 mm (approx. 4.5 inches)
- **Design Standard:** Steel Screw Design - Rev 1

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### 2. Mechanical Properties & Performance

The following values represent the engineering requirements for the fastener's performance and durability:

Property	Requirement/Standard	Value
Core Hardness	ASTM E18	32 - 40 HRC
Surface Hardness	ASTM E18	52 - 58 HRC
Drilling Test	IFI-113	Max 5 Seconds
Minimum Torque	SAE J933	70 Kg-CM
Coating	Trivalent Zinc	5U (H.T.)

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### 3. Dimensional Specifications

All dimensions are provided in millimeters (mm).

- **Head Diameter:** 9.86 mm
- **Head Angle:** 110°±5°
- **Thread Diameter (Major):** 5.6 – 5.8 mm
- **Thread Pitch/Angle:** 60°±3°
- **Point Angle:** 80°±2°
- **Drill Point Width:** 3.25 – 3.45 mm
- **Nib Height/Width:** 0.6 mm

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### 4. Project Details

- **Document Date:** October 13, 2025
- **Designer:** Humberto Hassey
- **Status:** Approved

**Note:** This screw features integrated **nibs** under the head to facilitate cleaner countersinking into substrate materials.