

# Technical Data Sheet

## STS CEMBER® Render Screws

### Product Overview

The CEMBER 38mm External Render board screw is a high-performance screw designed specifically for use with our 12mm STS Construction Board. They are also great for use with any other fibre cement sheet material.

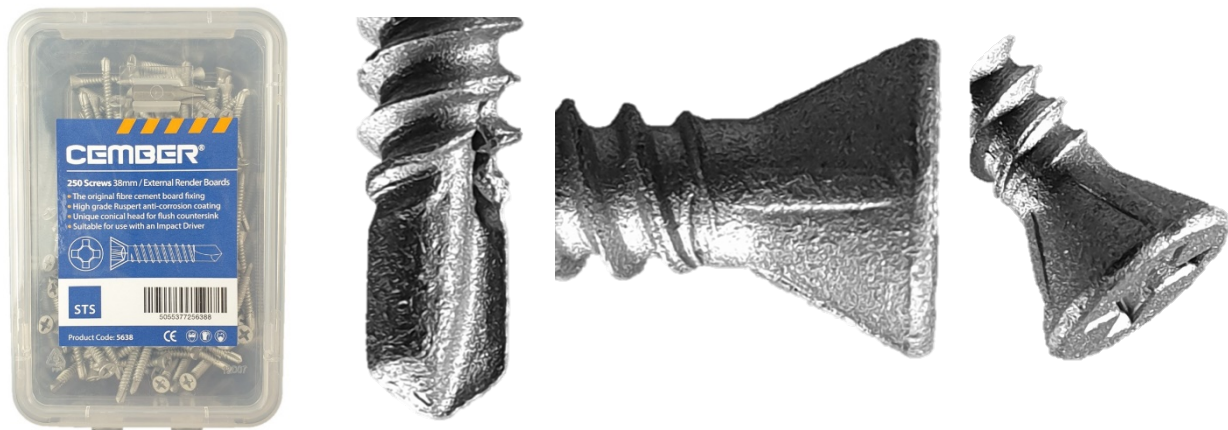
When installing our Render boards, it is important to ensure the screws used are flush, strong and suitable for high levels of moisture and weathering. The Ruspert® coating on the screws is a perfect barrier for all corrosion, rust and weathering.

**Product Name:** CEMBER® External Render Board Screw

**STS Product SKU:** 5638

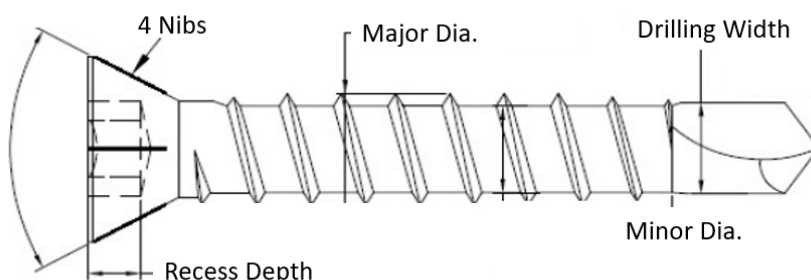
**Box Quantity:** 250

### Product Image



### Screw Dimensions & Material Type

Screw Size	Total Length	Head Style	Head Mark	Drive Type	Recess Depth	Head Diameter	Major Diameter (Threads)	Minor Diameter (Shank)	Drilling Width
38mm	38mm	Flat	-	Phillips	2.80mm	7mm	3.95mm	2.68mm (approx.)	3.50mm



## Ruspert® Coating

Ruspert® is a high-grade protective coating applied to metals to prevent environmental corrosion. First developed in the mid 1980's to improve the performance of electroplated fasteners.

Ruspert® is a multi-layered coating, with each layer contributing to the overall protection of the metal substrate. In contact with the base metal, a free zinc layer prevents corrosion of the base metal through sacrificial galvanic protection. A topcoat of baked ceramic acts as a physical barrier, protecting the zinc layers and base metal from the environment and abrasions. In between these layers is a chemical conversion layer that chemically binds the zinc and ceramic together. This prevents the layers from separating, maintaining the physical barrier and protecting the underlying zinc for longer.

Ruspert® Benefits		Environment
Adhesion/Mechanical Damage Resistance	No loss of coating when cutting thread into hard surface such as concrete	Ceramic Top Layer
Corrosion Resistance	Excellent corrosion resistance against salt water, acid/alkaline environments	Chemical Conversion Layer
Contact Corrosion Resistance	Reduced contact corrosion with other metals	Free Zinc Layer
Timber Preservative Resistance	Can be used with treated timbers (hardwood or softwood)	Metal Substrate
Low Processing Temperatures	Maintain mechanical properties of fastener.	

### Salt Spray and Corrosive Gas Performance

Ruspert® coatings are classified by their performance in a neutral salt spray test, typically 500 (R500), 1000 (R1000) or 1500 (R1500) hours before red rust is observed. All STS products with Ruspert® coating are R1000 or R1500 grade.

The ceramic coating protects the zinc layer and metal substrate from acid and alkaline attacks, an R1000 Ruspert® coating will conform to 12-15 cycles of the sulphur dioxide gas corrosion test (acid rain test) in accordance with DIN 50018. This makes an R1000 product comparable to class 3 screws, suitable for external use in mild to moderate industrial or marine environments. Additionally, an R1500 coating is comparable to a class 4 screw suitable for use in severe marine environments.