What Are Roofing Screws with Bonded EPDM Washer Used For?

Engineering Hardware & Fasteners · engineeringhardware.com/applications/roofing-screws-epdm-washer

Roofing Screws with Bonded EPDM Washers are used for fixing into sheet, timber or plastic by forming their own thread as they are driven, without a tapped hole. They are manufactured to Trade series (cladding fastener), and selection is driven by the screw size, the fit and tolerance the assembly requires, and the service environment.

Primary duty

Fixing into sheet, timber or plastic by forming their own thread as they are driven, without a tapped hole

Governing standard

Trade series (cladding fastener)

Screw size range

5.5 to 6.3

Category

Screws

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



Application guide for Roofing Screws with Bonded EPDM Washers to Trade series (cladding fastener). The core duty of the type is fixing into sheet, timber or plastic by forming their own thread as they are driven, without a tapped hole. The typical industries, the how-to-specify checklist, assembly practice and the exclusion cases are set out below. Stocked across roughly 5.5 to 6.3, they cover general to heavy-duty work.

Typical Applications for Roofing Screws with Bonded EPDM Washer

The most common settings where these are specified:

Maintenance & repair (MRO): a stocked size for servicing existing plant where the original fastener spec must be matched.

Fabrication & metalwork: bench and on-site assembly of steel frames, enclosures and weldments.

Electronics & enclosures: mounting PCBs, panels and lids where the drive style and head height matter.

Appliances & consumer goods: high-volume assembly with power tools and consistent seating.

Machine guarding & panels: removable access covers that are opened for service.

Product catalog

Related Roofing & Cladding Screws products



(https://engineeringhardware.com/product/75mm-90mm-120mm-galvanized-roofing-screws-wire-nails-with-washer-for-corrugated-ibr/)

Roofing & Siding Screws

75mm 90mm 120mm Galvanized Roofing Screws Wire Nails with Washer for Corrugated Ibr Roofing Sheet Nails
(https://engineeringhardware.com/product/75mm-90mm-120mm-galvanized-roofing-screws-wire-nails-with-washer-for-corrugated-ibr/)

Roofing Nail · Steel

US$864.00 MOQ 5 tons



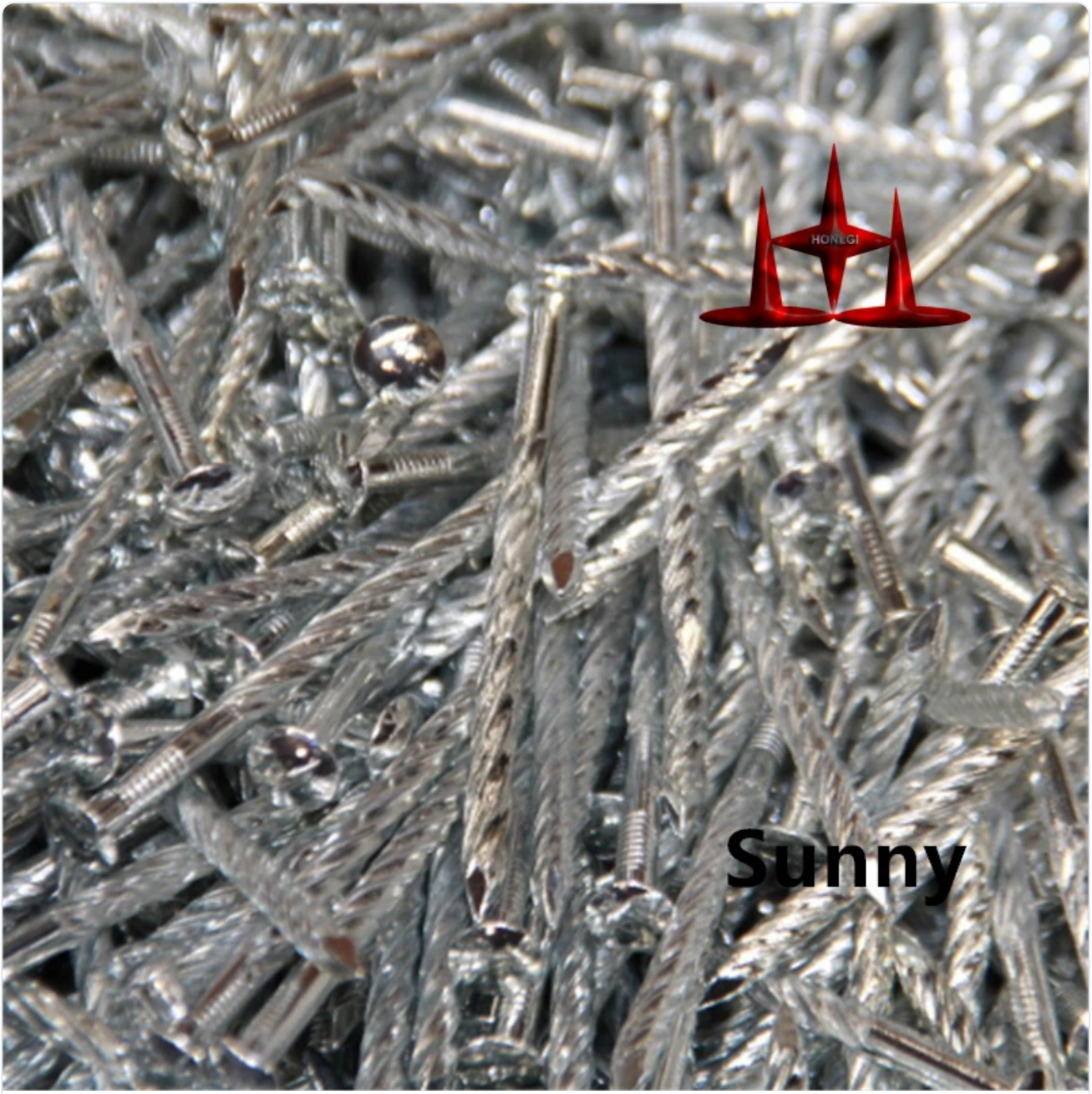
(https://engineeringhardware.com/product/custom-security-cup-head-waterproof-screw-hex-socket-o-ring-sealing-screw/)

Roofing & Siding Screws

Custom Security Cup Head Waterproof Screw Hex Socket O-Ring Sealing Screw (https://engineeringhardware.com/product/custom-security-cup-head-waterproof-screw-hex-socket-o-ring-sealing-screw/)

Cup Head · DIN, GB, ANSI, BSW, JIS, GOST

US$0.024 – 0.096 MOQ 1,000 pieces



(https://engineeringhardware.com/product/high-quality-screw-fluted-shank-assembled-roofing-nails-with-iron-and-epdm-washers/)

Roofing & Siding Screws

High Quality Screw Fluted Shank Assembled Roofing Nails with Iron and EPDM Washers (https://engineeringhardware.com/product/high-quality-screw-fluted-shank-assembled-roofing-nails-with-iron-and-epdm-washers/)

Roofing Screw with Washer · ANSI, DIN, GB, ISO, JIS

US$7.90 – 11.62 MOQ 200 boxes



(https://engineeringhardware.com/product/roofing-screw-nails-plain-plastic-cap-ring-shank-galvanized-roofing-nail-with-washer/)

Roofing & Siding Screws

Roofing Screw Nails Plain Plastic Cap Ring Shank Galvanized Roofing Nail with Washer Plastic Caps Umbrella Head Roofing Nail (https://engineeringhardware.com/product/roofing-screw-nails-plain-plastic-cap-ring-shank-galvanized-roofing-nail-with-washer/)

Roofing Nail · ANSI, GB, ISO

US$816.00 – 900.00 MOQ 5 tons



(https://engineeringhardware.com/product/roofing-screw-finger-guard-pneumatic-quick-coupling-tube-fitting/)

Roofing & Siding Screws

Roofing Screw Finger Guard Pneumatic Quick Coupling Tube Fitting
(https://engineeringhardware.com/product/roofing-screw-finger-guard-pneumatic-quick-coupling-tube-fitting/)(https://engineeringhardware.com/product/roofing-screw-finger-guard-pneumatic-quick-coupling-tube-fitting/)

Customization · Plastic

US$0.12 – 1.20MOQ 1 piece



(https://engineeringhardware.com/product/hot-selling-africa-market-roof-screw-with-washer/)

Roofing & Siding Screws

Hot Selling Africa Market Roof Screw with Washer
(https://engineeringhardware.com/product/hot-selling-africa-market-roof-screw-with-washer/)(https://engineeringhardware.com/product/hot-selling-africa-market-roof-screw-with-washer/)

Round Head · ANSI

US$780.00 – 1,020MOQ 10 tons

View all Roofing & Siding Screws →
(https://engineeringhardware.com/fastener-products/screws/roofing-siding-screws/)

Full product catalog (https://engineeringhardware.com/products/)

How to Specify Roofing Screws with Bonded EPDM Washer for Your Application

Size: Match the nominal size to the mating thread or hole. This product spans 5.5–6.3; check the full table below for the exact dimensions of each size.

Drive & head: Pick the drive (socket, cross, slot) and head style for the tool access and seating surface; a recessed drive resists cam-out under power tools.

Environment: For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.

Standard: This product is supplied to Trade series (cladding fastener). Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Installation & Assembly Practice

Match the driver exactly to the recess (PH ≠ PZ; hex key sizes per ISO 2936) and keep the tool axial — side load is the main cause of stripped drives.

In tapped holes, engage a thread length of at least 1× the nominal diameter in steel, 2× in aluminum.

Set power tools to a torque that seats the head without embedding it into the mating surface.

Common Selection Mistakes with Roofing Screws with Bonded EPDM Washer

Under-sizing the drive for the installation torque — a small recess at high torque strips before the screw is seated.

Using a countersunk head in thin sheet where the countersink removes most of the load-bearing material.

Specifying stainless in high-strength duty: A2-70 is roughly class 7 steel, not a 10.9 substitute.

Where Roofing Screws with Bonded EPDM Washer Are Not the Right Choice

Not for high-preload structural joints (use a property-class bolt and nut), and not in thin sheet where a self-drilling or self-tapping type suits better.

Custom manufacturing · Made to drawing

Need a roofing screws with bonded EPDM washer outside the standard range?

A non-standard screw is quoted from the drawing; where one already exists in the catalog, the special is usually a variation on its tooling. Made by cold heading or warm forging.

Minimum order from 2,000 pieces; samples within 7 days of drawing approval.

Custom screw manufacturing (https://engineeringhardware.com/custom/screws/)

Send a drawing (https://engineeringhardware.com/custom/screws/#rfq)

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Dimensioned line drawing of 5.5 Roofing Screws with Bonded EPDM Washer to Trade series (cladding fastener). Side view and top view, drawn to the dimensions in the table below and redrawn for any size selected.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (Trade series (cladding fastener))

Nominal diameter (mm)	Across flats s (mm)	Washer diameter (mm)	Washer type
5.5	8	16	Bonded EPDM + ste
5.5	8	19	Bonded EPDM + ste
6.3	8	19	Bonded EPDM + ste
6.3	8	19	Bonded EPDM + A2
6.3	10	22	Bonded EPDM + A2

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

Which industries use Roofing Screws with Bonded EPDM Washer?

They are commonly specified in electronics & enclosures, appliances & consumer goods and machine guarding & panels, among other sectors.

How do I choose the right size of Roofing Screws with Bonded EPDM Washer?

Match the nominal size to the mating thread or hole. This product is available from 5.5 to 6.3; the full dimension table on this page lists each size.

What drive type do Roofing Screws with Bonded EPDM Washer use?

Drive depends on the head style — socket (hex key), cross (Phillips/Pozi) or slot. A recessed drive resists cam-out when driven with power tools; check the product head style on this page.

What material should Roofing Screws with Bonded EPDM Washer be for outdoor use?

For damp, coastal or chemical environments specify A4 (316) stainless or a suitably coated steel. For indoor or dry use, A2 (304) stainless or zinc-plated steel is normally adequate.

Can I get a quote for Roofing Screws with Bonded EPDM Washer in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: Roofing Screws with Bonded EPDM Washer — specifications & sizes (https://engineeringhardware.com/fastener/roofing-screws-epdm-washer/)

Roofing Screws with Bonded EPDM Washer Specification Guides

- **A4 stainless Roofing Screws with Bonded EPDM Washer (https://engineeringhardware.com/guide/material/a4-stainless-steel-roofing-screws-epdm-washer/)**

Related Fastener Applications

- **4IP Internal Service Screws for Mobile Devices applications (https://engineeringhardware.com/applications/4ip-internal-service-screws-for-mobile-devices/)**
- **Ball-Ended Thrust Screws applications (https://engineeringhardware.com/applications/ball-ended-thrust-screws/)**
- **Bicycle General Threaded Fasteners applications (https://engineeringhardware.com/applications/bicycle-general-threaded-fasteners/)**
- **Bicycle Spoke Nipples applications (https://engineeringhardware.com/applications/bicycle-spoke-nipples/)**
- **Button Head Socket Cap Screws, UNC applications (https://engineeringhardware.com/applications/asme-b18-3-3a-unc-button-head-socket-cap-screw/)**
- **Button Head Socket Screws applications (https://engineeringhardware.com/applications/button-head-socket-screws/)**