

Fasteners **TESTED** For Quality



rapierstar®



Rapierstar screws are manufactured to our own drawings by long-standing, internationally acknowledged partners in the Far East.

Tested at the point of manufacture, and again in Rapierstar's own unique Technical Centre before being allowed into stock, you can be assured that all **Rapierstar** screws meet and exceed all known national and international quality standards.

Every box of **Rapierstar** screws carries its own "batch number", which provides full traceability.

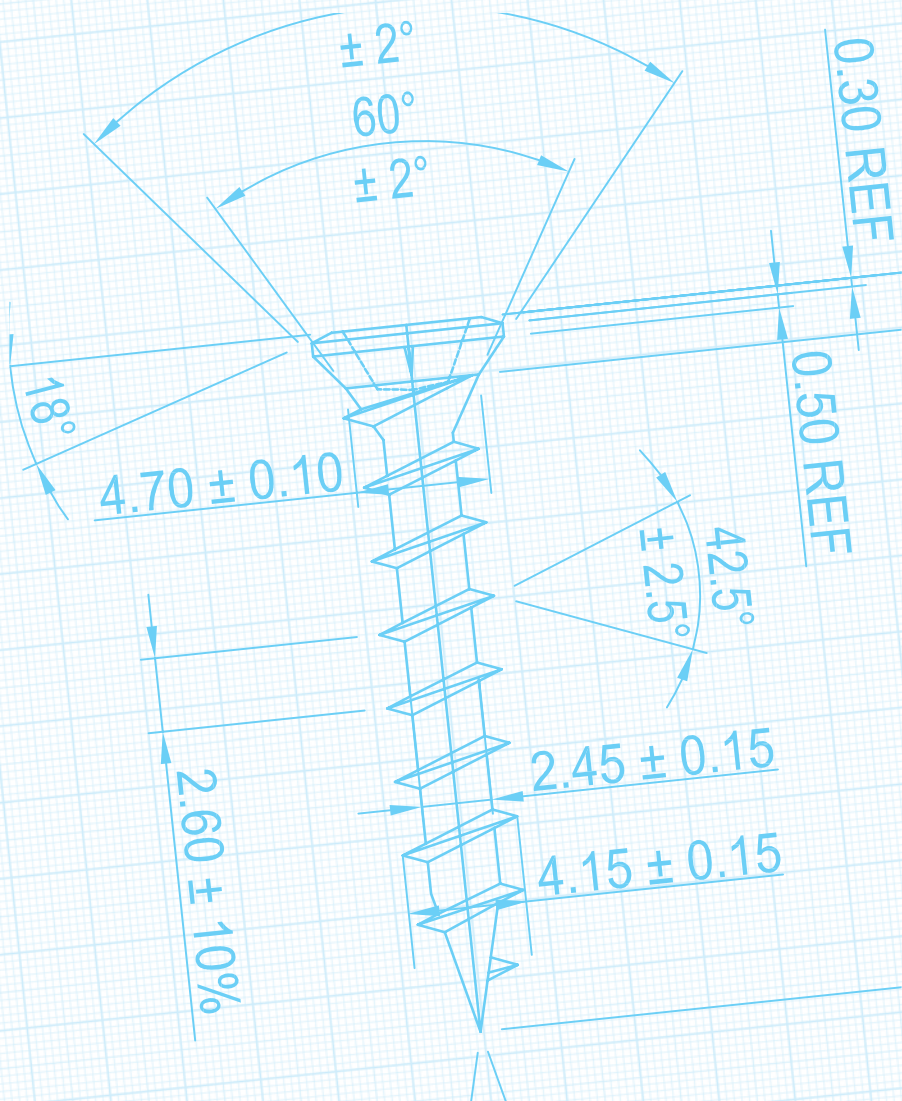
Rapierstar, registered as complying with ISO 9001:2008 for the supply of fasteners, fixings and associated consumables, gives you "peace of mind".



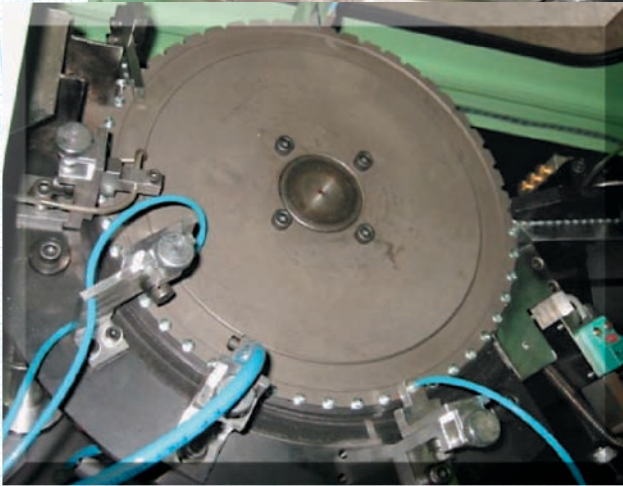
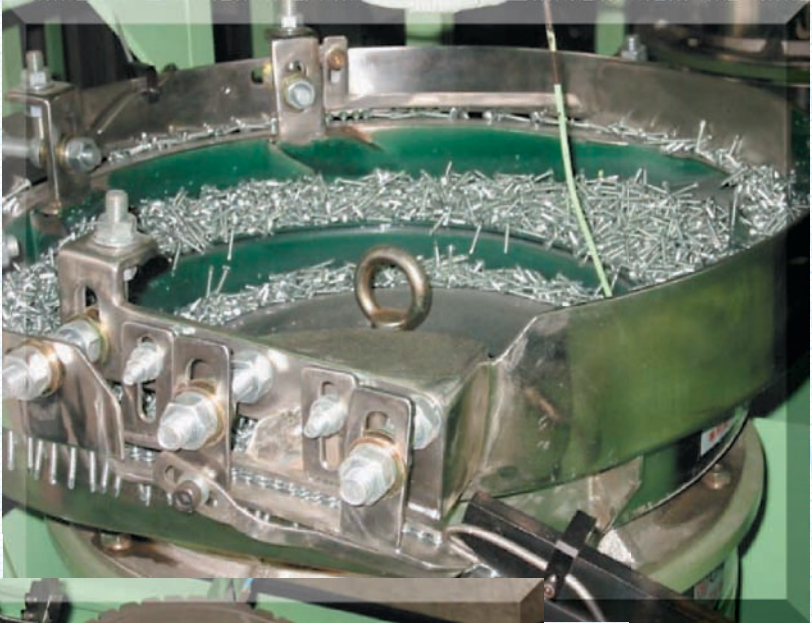
Certificate number 2486QM8001

***Rapierstar* screws are:**

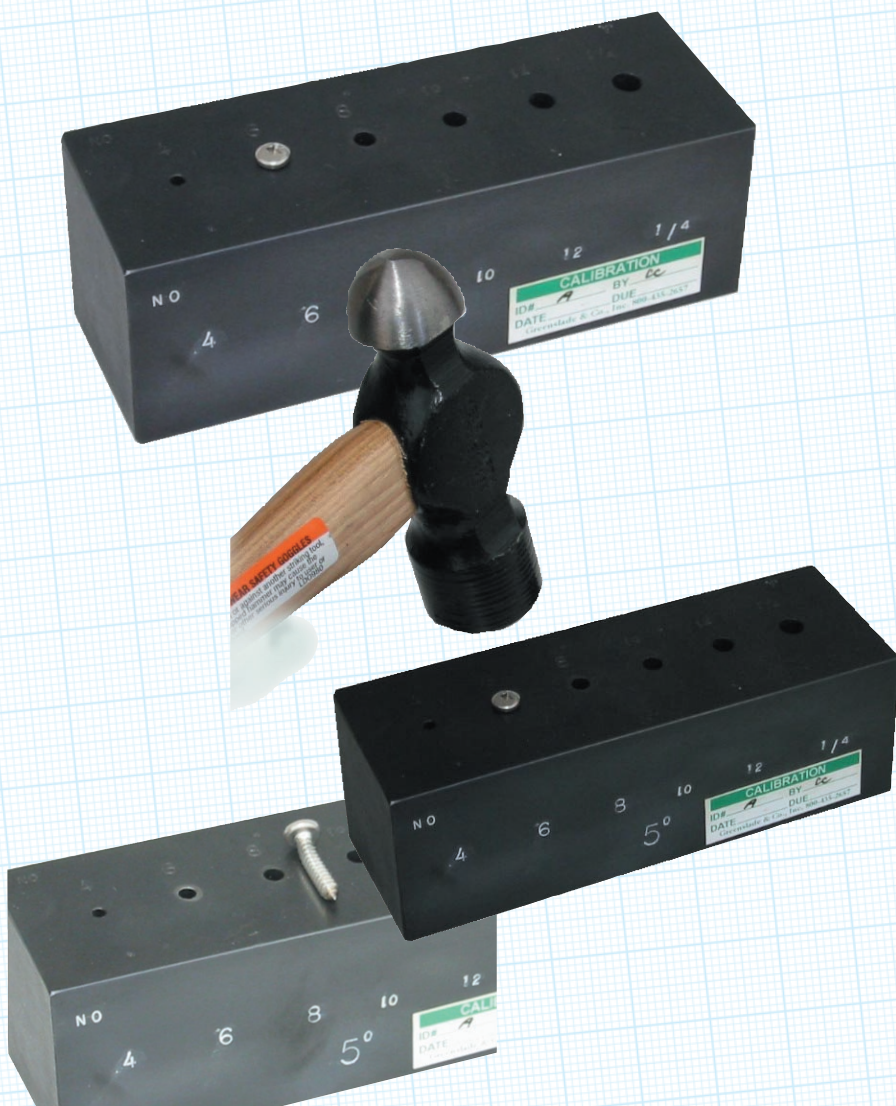
Laser sorted	✓
Ductility tested	✓
Plating depth tested	✓
Dimensionally checked	✓
Wobble tested	✓
Salt spray tested	✓
Torque tested	✓
Insertion speed tested	✓
Pull-out tested	✓



Rapierstar are at the forefront of raising the standards of speciality fasteners. Our commitment to quality is illustrated by the building of our own, unique Technical Centre incorporating a complete test facility, enabling us to test quality aspects of your fasteners and ensuring our own high specifications are consistently met and exceeded.



At the manufacturing stage, every batch of **Rapierstar** screws is laser sorted to check dimensions. During this process, swarf is also removed, which means that the finished boxes contain no foreign bodies. This means you are less likely to experience blockages where auto-feed machines are used.



The ductility of every batch of **Rapierstar** screws is tested using calibrated test blocks, which have an angled upper surface conforming to acknowledged standards.

Screws are inserted into the correct diameter hole and then struck so that the heads seat down onto the angled surface, bending the screws to the angle of the test block. Screws are only approved if no breakages occur and there is no sign of cracking.



In order to ensure that corrosion resistance consistently meets and exceeds Rapiertar's own high standards, it is vitally important that the depth of plating is sufficient.

Every batch of **Rapiertar** screws is tested by using internationally accepted plating depth test equipment before accelerated corrosion testing takes place. You can be sure the fasteners you are using are of the highest quality.



All dimensions are checked on every batch of **Rapierstar** screws, including the depth of the recess, which is measured using finely calibrated dial indicator gauges. The correct depth of recess means that the screwdriver bit fits perfectly, ensuring safety for your fabricator.



Each batch of **Rapierstar** screws is tested for “wobble” using a certified plug gauge. The international recommendation for this test allows 12° of movement. Rapierstar specify, and only accept 6° of movement, making insertion and fabrication easier and safer.



Rapierstar screws are salt spray tested “in-house”, in accordance with BS 7479:1991, ISO 9227:1990 – “Method for salt spray corrosion tests in artificial atmospheres”, and to UKAS (United Kingdom Accreditation Service) requirements. Every batch of **Rapierstar** carbon steel screws are routinely tested to beyond 300 hours, far exceeding the requirements of BS EN 1670:2007 – “Building hardware. Corrosion resistance. Requirements and test methods”.

You can be assured of the excellent corrosion resistance of our screws.

Rapierstar enhanced martensitic stainless steel screws are tested to exceed 3,000 hours of accelerated corrosion testing in order that you can be ultra-confident that the stainless steel screws you use will not fail “the test of time”.

Rapierstar carbon steel window screws are guaranteed against corrosion for five years, and **Rapierstar** stainless steel window screws are guaranteed against corrosion for ten years, when installed in accordance with the GGF (Glass and Glazing Federation) and BPF (British Plastics Federation) Guidelines relating to the selection and application of fasteners.



Every batch of **Rapierstar** screws is tested to ensure that optimal torsional strength and design specifications are met and exceeded.

Having passed these tests, you can be sure that screws will not break except under excessive forces.

Every batch of **Rapierstar** screws is also tested to detect those that may fail after 24 / 48 hours of installation due to “hydrogen embrittlement”. This test ensures that you have total confidence that your screws will not fail.





Using custom designed and built equipment, every batch of **Rapierstar** screws is tested to ensure that the speed of insertion meets Rapierstar's own high specification, resulting in faster, more cost effective production for you, the customer.



Pullout testing ensures that tensile strength and grip criteria are maintained.

A secure fastening is of vital importance, especially where window and door fabricators are submitting products for high security testing – BS 7950:1997 “Specification for enhanced security performance of windows for domestic applications” or PAS23.1:1999 “General performance requirements for door assemblies. Single leaf, external door assemblies to dwellings”, or PAS24.1:1999 “Enhanced security performance requirements for door assemblies. Single and double leaf, hinged external door assemblies to dwellings”.

Rapierstar are also able to offer the same testing for frame fixings and woodscrews. Comparison testing consistently shows that **Rapierstar** products meet or exceed the performance figures of our competitors.



Features and benefits of *Rapierstar* screws

Laser sorting removes swarf.
No clogged auto-feed machines

Ductility tested to acknowledged standards
Screws will not break

Plating is checked for depth and consistency
Plating is quality assured

Recess measured and tested for wobble
Easier and safer insertion

Salt spray tested in accordance with BS:7479:1991, ISO 9227:1990
Corrosion resistance exceeds UK and international standards

Torque tested
Screws will not shear

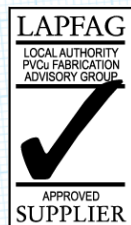
Tested to detect Hydrogen embrittlement
Screws will not suffer delayed failure

Tested for speed of insertion
Faster production

Tested for Pull-out
More secure fastening

Buying Screws from Rapierstar
Peace of Mind

**Rapierstar are the only company
approved and recommended by:**



KÖMMERLING®





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