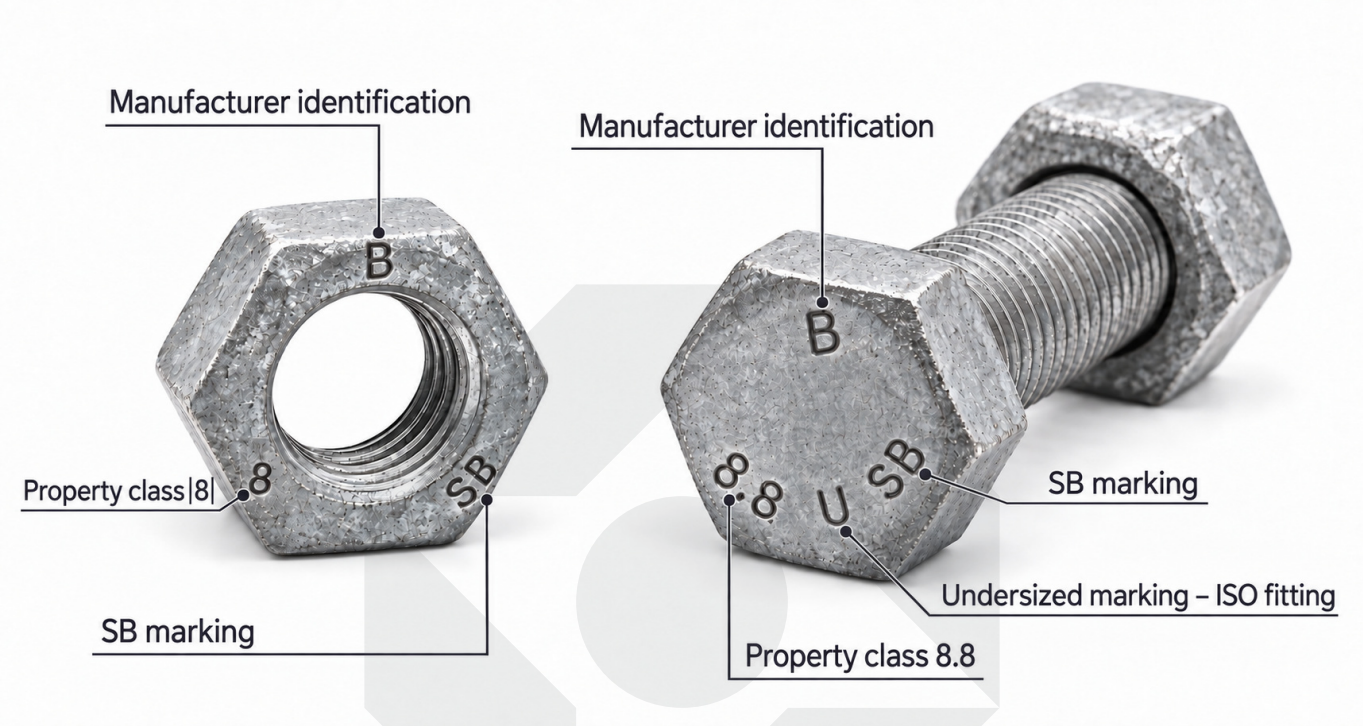
EN 15048 - Non-preloaded structural bolting

Technical reference sheet | Rev. 29.09.2026

Bolt and nut for non-preloaded structural connections. Separate washers where required by the project; regular sizes and project-specific production.

Identifying components and markings



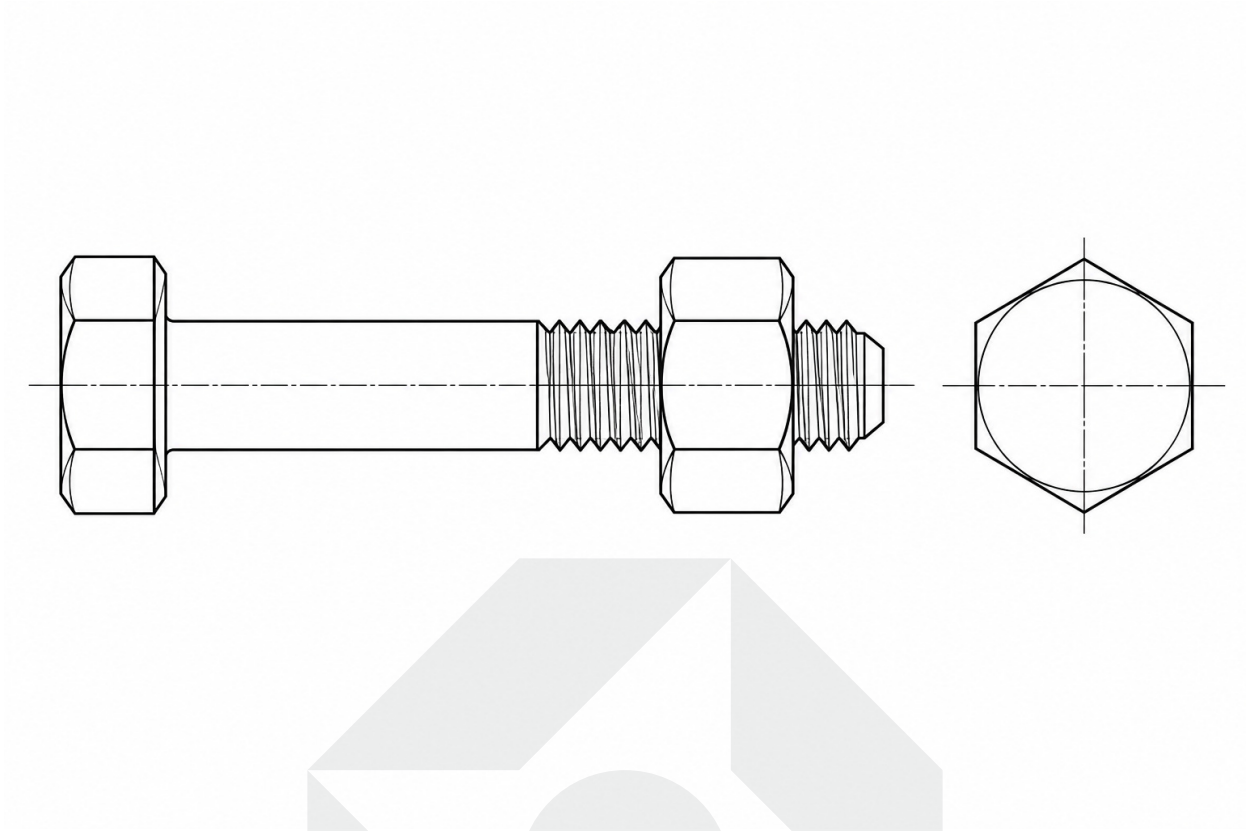
Dueemme product illustration. SB identifies non-preloaded structural bolting; 8.8 is the bolt property class and 8 the nut property class. B represents an example manufacturer identifier; U identifies the illustrated undersized configuration, not all SB supplies.

CE marking: packaging and documentation

The assembly CE marking is normally shown on the packaging label. Depending on the lot type and delivery conditions, it may appear in the accompanying documentation, subject to the applicable requirements. It is distinct from individual component markings: manufacturer identification, property class and system identification.

On receipt, check that the assembly, label, lot and Declaration of Performance (DoP) correspond; retain traceability after opening the packaging.

Assembly components



SB assembly: bolt and nut. Any required washers are ordered separately. Undimensioned technical illustration; does not replace the manufacturing drawing for the supplied product.

EN 15048: request an SB-identified bolt-nut pair. A washer is a separate accessory: where specified, select its geometry, hardness, material and coating for the joint. Adding a washer does not convert the assembly to EN 14399.

Commercial SB range from M8. For M8 and M10, structural use, coating and supporting documentation must be checked for the specific supply: a marketed diameter does not automatically extend the scope of the standard.

Commercial reference sizes · SB 8.8

d	l · mm	P · mm	s · mm
M8	On request	1.25	13
M10	On request	1.5	16
M12	25-200	1.75	18
M16	30-220	2	24
M20	40-260	2.5	30
M24	50-260	3	36
M27	60-200	3	41
M30	70-300	3.5	46
M36	90-200	4	55

Other diameters and lengths are available on request. For substantial quantities, dedicated production can be assessed, with feasibility, assembly characteristics and documentation agreed for the specific enquiry.

P = pitch; s = width across flats; b = thread length where shown. Documented catalogue ranges: not every intermediate length is necessarily offered, and these are not Dueemme stock declarations.

Finishes and supply condition

Plain finish

Specify project protection and environmental requirements.

Hot-dip galvanizing

Supply the assembly with compatible, documented coating and check thread fit.

Other coatings

Assess against the system, property class and required testing; do not automatically transfer a finish between assemblies.

Conformity: changes requiring verification

• Do not substitute generic bolts or nuts: assembly identity and traceability must remain verifiable.

• Cutting, rethreading, machining or subsequent treatment may alter declared characteristics. Original documentation does not automatically cover the modified configuration.

• Distinguish assembly CE marking / declaration of performance, factory production control certification and a 3.1 inspection certificate: they serve different purposes.

This does not mean the manufacturer’s entire certification expires: establish whether the supplied or modified assembly remains covered by the relevant declarations, testing and traceability.

Project-specific structural fasteners

Cannot find the required size in the regular range? Dueemme can assess dedicated production for substantial quantities, with project-specific dimensions, class, finish, markings and documentation.

Project-specific documentation

Assembly and traceability

Lot, markings, component list and conformity documents relevant to the supply.

EN 10204 3.1 · DoP · CoC

State the required documents. Applicability and availability are confirmed during enquiry review.

Testing and coatings

Dimensional reports, mechanical tests, coating reports and ROCAP where applicable to the specification.

Related standards and components

High-strength assemblies intended for preloading: HR, HV and HRC systems, with components and installation matched to the project.

Application sectors

Steelwork, structures and infrastructure.

Enquiries and supply

Specify standard, grade, dimensions, finish, quantity and required documents. This technical reference sheet does not replace the lot documentation, manufacturer installation instructions or project design.