Non-preloaded structural bolting assemblies according to DIN EN 15048
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1. **Scope**

This delivery instruction contains the general requirements which must be met to ensure that bolting assemblies consisting of bolts and washers are suitable for non-preloaded structural bolting assemblies in metal construction applications. If such articles have been ordered, the supplier commits to complying with the requirements of the standard and to meeting the manufacturer's obligations. This delivery specification furthermore defines Würth-specific requirements going beyond the standard.

This part applies to bolts and nuts made of

- carbon steel and alloy steel, with property classes according to DIN EN ISO 898-1 and -2

- austenitic stainless steel, with property classes according to DIN EN ISO 3506-1 and -2

See also chapter "Scope" of DIN EN 15048-1.

2. **Normative references**

DIN EN 15048-1
DIN EN 15048-2
DIN EN ISO 898-1
DIN EN ISO 898-2
DIN EN ISO 3506-1
DIN EN ISO 3506-2
DIN EN ISO 4017
DIN EN ISO 4014
DIN EN ISO 4032
DIN EN ISO 10684
DIN 7990
DIN EN ISO 4033
DIN EN ISO 4034

3. **Requirements**

The requirements of DIN EN 15048-1 applicable at the time shall apply.
Addition to DIN EN 15048-1 / Chapter 4.1 Ordering information
This document applies to the fullest permissible extent even if no specific reference is made to it in the order. The latest version of the supplier specification can be downloaded from www.wuerth.de/Lieferanten.

Addition to DIN EN 15048-1 / Chapters 4.4.4.1 Bolts and 4.4.4.2 Nuts
Marking of the batch on the product is optional. The marking may either be embossed or indented on the top surface of the head (bolt) and/or on one of the bearing surfaces (nut). The supplier can select the design and type of the batch identification. Information on the structure of the batch identification key has to be provided to the product manager of Adolf Würth GmbH & Co. KG before the first delivery.

4. Testing for conformity evaluation
The supplier shall perform conformity assessments according to the applicable version of DIN EN 15048-1 and retain them for at least 10 years. If requested, the assessments must be presented within 48 hours.

5. Evaluation of conformity
The latest edition of DIN EN 15048-1 applies.

Addition to DIN EN 15048-1 / Chapter 6.2 Initial type testing
The manufacturing site is, at any time, solely and fully responsible for the due performance and documentation of initial type tests. Upon request, Adolf Würth GmbH & Co. KG must be given access to this documentation within 48 hours. The results of the initial type tests shall be submitted to Adolf Würth GmbH & Co. KG before the first delivery.

Addition to DIN EN 15048-1 / Chapter 6.3 Factory production control
The manufacturing site is, at any time, solely and fully responsible for the due performance, maintenance and documentation of its factory production control. Upon request, Adolf Würth GmbH & Co. KG must be given access to this documentation within 48 hours. Before the first delivery by the respective manufacturing site, Adolf Würth GmbH & Co. KG must be notified in writing of the persons responsible for the proper performance, maintenance and documentation of the factory production control.

Inspection portal of Adolf Würth GmbH & Co. KG
In order to ensure the proper documentation of the FPC at Adolf Würth GmbH & Co. KG, the supplier will be provided with inspection plans in SAP. The supplier enters the measured values into inspection lots, adds the batch and uploads product documentation such as the type 3.1 inspection certificate to SAP. An RSA token is required to access the portal. You will receive more detailed information from your purchasing agent.
6. Certificates

All assemblies as well as their components (bolts, nuts) have to be delivered without exception with a type 3.1 inspection certificate enclosed to the delivery note. The minimum requirements of a 3.1 type certificate have been specified in LS-0002. The latest version can be found at www.wuerth.de/lieferanten.

Issue of certificates on behalf of Adolf Würth GmbH & Co. KG

If the goods supplied bear a Würth label (see chapter 8.2), Würth is considered the official manufacturer of these assemblies. Therefore, the type 3.1 certificate according to DIN EN 10204 must be issued by the manufacturer. For this purpose, Würth commissions an inspection representative for the manufacturing location (see appointment letter regarding the issue of inspection certificates) who must be suitable for the task as specified in DIN EN 10204. As a rule, it is the inspection representative of the supplier.

The supplier is provided with a PDF template of the type 3.1 certificate. To keep the additional effort to a minimum, the certificate is confined to only a few characteristics. Each new batch delivered must be accompanied by a type 3.1 certificate issued by the supplier. The certificate is attached to the batch via the inspection portal.

7. Delivery note

The delivery note must contain at least the following information about the article. For import shipments from a third country, this information must also be indicated on the invoice.

- Würth article number
- Lot number or batch number (to be given alphanumerically and as a barcode)
- Article description according to DIN EN 15048-1
- Packaging unit
7.1 Lot / batch number
The lot and/or batch number must be plainly visible on the delivery note and have the following format. For import shipments from a third country, this information must also be indicated on the invoice.

"Lot number:______" or "Lot:______" or "Batch number:______" or "Batch:______"

In addition, a corresponding type 128B barcode (example) must be printed next to the batch number.

![Barcode Image]

7.2 Reference of the batch number
The batch number shown on the delivery note and label must refer to the manufacturing lot of the final product, not to the raw materials used. The allocation logic of the batch number must beforehand be coordinated with the product management of Adolf Würth GmbH & Co. KG.

8. Labeling and packaging
By means of manufacturer qualification, Adolf Würth GmbH & Co. KG intends to act as manufacturer of structural bolting assemblies. Therefore, labels and packaging must be in compliance with the law. The preferred label variant is described in chapter 8.2. Before the first delivery, the specification and samples of the cardboard packaging must be submitted to Adolf Würth GmbH & Co. KG for release.

8.1 Delivery without Würth label
- The label has to conform to the requirements of the Construction Products Regulation No. 305/2011 and DIN EN 15048-1.
- Neutral packaging has to be used.
- The label must be attached to the packaging in such a way that it can be read when the goods are taken from the pallet.

8.2 Delivery with Würth label
The Würth label will be made available to the supplier through an online platform. The article number, packaging size and batch must be entered to be able to print the label correctly. The supplier’s manufacturing location can be allocated with the help of the supplier number.
• The label must be attached to the narrow side of the original packaging.
• Neutral packaging has to be used. An additional label incl. CE label of the manufacturing site is not required.

9 Delivery of products
The following supplementary provisions apply to structural bolting assemblies in addition to the supplier guidelines.

9.1 Batch-specific deliveries - Pallet
Every delivery should only contain products of one batch/lot. The supplier may combine different batches on one pallet, provided the individual batches can be easily identified, e.g. by separating them with cardboard layers, and do not have the same dimensions.

9.2 Pallet height
The total pallet height (goods + pallet) must not exceed 60 cm.

Max. 60 cm

9.3 Delivery – Container
Structural bolting material should be shipped in separate containers. For a better utilization of container space, the supplier may add other products to the container to save shipping costs. Within these
containers, the pallets containing structural bolting material must be clearly marked and kept separate from other pallets.

10 Manufacturer certificates
The supplier must be certified according to DIN EN 15048 by a notified body.

10.1 Current certificates
In the event of a successful recertification – continuous surveillance by the notified certification body – a copy of the current certificate of the factory production control has to be made available to Adolf Würth GmbH & Co. KG without delay. The responsible contact can be found in the ordering information.

10.2 Loss of certification
In the event the manufacturing site loses its factory production control certification or fails to renew its certification after an FPC assessment, the supplier must notify Adolf Würth GmbH & Co. KG without delay. The responsible contact can be found in the ordering information. Any orders received after this date must be rejected. Adolf Würth GmbH & Co. KG must be notified of the reasons for losing certification.
11. General remarks

11.1 Contract review
In case of inconsistencies with documents referenced in this document, the present document shall apply. When accepting an order, missing or contradictory information has to be checked and errors be resolved by the supplier before production. The contact person responsible for supplier inquiries is indicated on the order form. In addition, every transaction has to be checked for plausibility.

11.2 Required infrastructure / documents
- Access to the labeling program
- Label printer
- Access to the inspection portal
- Inspection representative
- Presentation of type 3.1 inspection certificate for Adolf Würth GmbH & Co. KG
- FPC representative
- Manufacturer certificate 15048
- Initial testing documents
- Explanations on batch logic / traceability
- Cardboard packaging specification and samples

12.3 Other applicable documents
- Delivery specification (LS-0002 - inspection documents) of Adolf Würth GmbH & Co. KG
- Suppliers guideline of Adolf Würth GmbH & Co. KG
- DIN EN 15048-2
- DIN EN 15048-1