

KOMO[®] product certificate



Number	K7044/10	Replaces	K7044/09
Issued	2013-13-15	Dated	2008-10-15
Valid until	Indefinite	Page	1 of 4

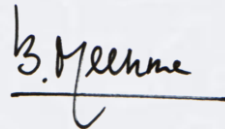
Mechanical Connections for Reinforcement Steel
Category 1, Ductility Class B
Types 2010, 3010, 4010 en 2020/2020P

Demu Metaalindustrie B.V.

STATEMENT BY KIWA

This product certificate is issued on the basis of BRL " Mechanical Connections for Reinforcement Steel " issued on 2012-11-08 in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that legitimate confidence exists that the by the producer manufactured products on delivery comply with the technical specifications as laid down in this product certificate, provided that they have been marked with the KOMO[®]-mark in the manner as indicated in this product certificate.



Bouke Meekma
Kiwa

The certificate is included in the summary on the website of KOMO: www.komo.nl.
 Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

Holder of Certificate
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Evaluated is:
 quality system
 product
 Periodic inspection

BRL 0504 Mechanical Connections for Reinforcement Steel

PRODUCT SPECIFICATION

General

Mechanical connections for reinforcement steel meet the requirements of section 2 of BRL 0504. Straightening, cutting and bending of the rebar ends and rebar anchors meet the requirements of section 4.3.2 of BRL 0503 "Cutting, bending and tack welded (prefab) reinforcing steel structures". The reinforcement steel of these couplers in the B500B meet the requirements of section 2 of BRL 0501 "Reinforcement Steel" and, therefore of section 1 "performance requirements" of NEN 6008.

Only complete mechanical rebar connections made of reinforcement steel produced from the rebar anchors and rebar ends, specified under "additional information" are covered by this KOMO product certificate.

Further specification

Scope

The products are intended to make mechanical connections with KOMO certified reinforcement steel quality B500B according to NEN6008, and to be applied in mainly statically loaded structures in accordance with NEN-EN 1992-1-1 + C2: 2011/NB: 2011, Category 1.

Category 1

For the mechanical connection, category 1, applies a fatigue strength (stress amplitude 2α) of 60 MPa to 2×10^6 load cycles.

Diameter reinforcement steel

The reinforcement steel B500B (hot rolled), \varnothing 12 u/t 40 mm.
The reinforcement steel B500B (cold drawn), \varnothing 12 u/t 16 mm.

Quality Reinforcement steel

The reinforcement steel is supplied in the grade B500B.
The reinforcement steel can be supplied in any required length.
The reinforcement steel can be supplied as straight and bent rods where the bending mandrel must meet the requirements of section 4.3.2 of BRL 0503 "Cutting, bending and tack welded (prefab) reinforcing steel structures".

Production location

Production takes place at Demu Metaalindustrie B.V., Utrecht.

Markings

The products are provided with a label on which at least the following information is specified clearly and indelibly:

- KOMO[®] logo;
- certificate number;
- name or logo supplier;
- coupler type;
- ductility Class;
- category number.



Marking on the product:

The applied "supplier mark" for type 2020 is the character: D.
The applied "supplier mark" for type 2010/3010/4010 is the text: DEMU.

TIPS FOR THE USER

Inspect the following upon delivery:

- That what has been agreed has been delivered;
- The mark and marking method are correct;
- The products do not exhibit any damage or defect as a result of transport or handling.

If you decide to reject the product(s) based on the above, contact:

- DEMU Metaalindustrie B.V.
and, if required,
- Kiwa Nederland B.V.

For the proper handling of the product, refer to the installation instructions of the manufacturer.

BRL 0504 Mechanical Connections for Reinforcement Steel

REGULATION BUILDING PRODUCTS

If a construction product is subject to a European harmonized technical specification, the statements in this KOMO (attestation including) product certificate must not be used as a replacement for the CE marking on such construction product and/or for the associated obligatory Declaration of Performance

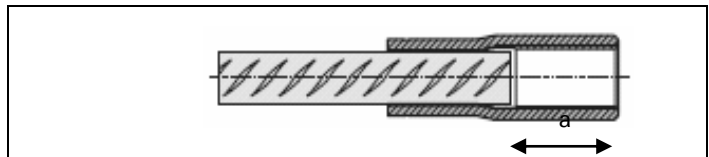
LIST OF DOCUMENTS MENTIONED*

NEN-EN 1992-1-1	Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings
+ C2+NB	+ National Annex
NEN 6723	Voorschriften Beton Bruggen
NEN 6008	Reinforcement Steel
BRL 0501	Reinforcement Steel
BRL 0503	"Cutting, bending and tack welded (prefab) reinforcing steel structures"
BRL 0504	"Mechanical reinforcement steel couplers"

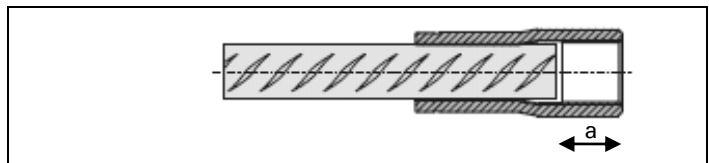
* For the correct version of the specified standards please refer to the last change sheet with BRL 0504.

ADDITIONAL INFORMATION

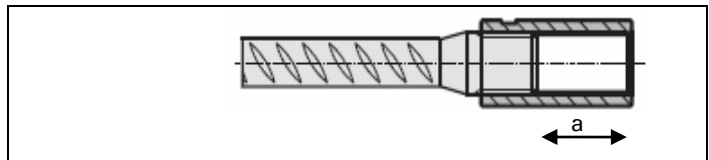
Rebar anchor 4010 (pressed version)



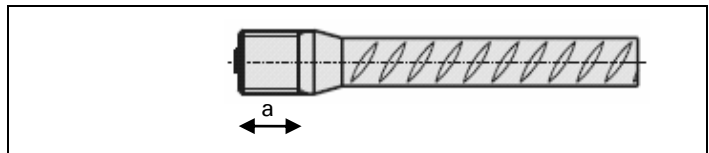
Rebar anchor 2010 (pressed version)



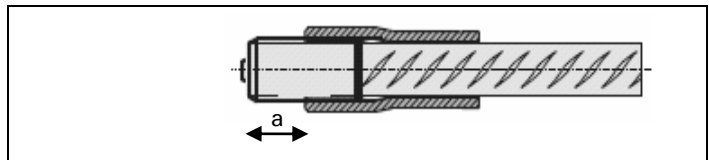
Rebar anchor 3010 (screwed version)



Rebar end 2020 (swaged and rolled version)



Rebar anchor 2020 (pressed version) with treading end



Tightening torque

	Ø12/M16	Ø14/M18	Ø16/M20	Ø20/M24	Ø25/M30	Ø28/M36	Ø32/M42	Ø40/M48
rebar anchor 4010 size	25	29	33	38	48	57	65	
rebar anchor 3010 size	29		35	46	60			
rebar anchor 2010 size								48
rebar end 2020 size	≥25	≥29	≥33	≥38	≥48	≥57	≥44	≥54
Tightening torque (Nm)	75	85	100	160	250	325	400	400
Tightening torque tolerances: +/- 5%								

