

CLASS 1

Building Product Information Sheet

Product name:

Iron Man Bar-Coupler Mechanical Splice (IMBMS)

Product line:

N/A

Product description:

IMBMS is a solution for the joining, splicing and terminating reinforcing bar for the reinforcement of concrete.

Key information

Material: Steel C45 grade

Coupler size range: 12mm to 40mm

Terminator size range: 12mm to 40mm

Threaded insert size range: 12mm to 20mm

Compliant to NZS3101 and Bridge manual 3.4

Used as a mechanical splice for reinforcing bar.

Product identifier:

BMS-CPLR (Coupler), BMS-TRM (Terminator), BMS-TI (Threaded insert) each with its corresponding size at the start. i.e 40BMS-TRM

Place of manufacture:

Overseas

Legal trading name of the manufacturer:

BOO WON BMS CO, LTD

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Legal and trading name of the importer:

N/A

Address for service:

Street name: 590 Yongtan-dong Chungju-City
Suburb: Chungju-City
City, Country: Chungcheongbuk-do Rep. of Korea
Postcode: Zip 27327

Website:

ibms.co.kr

NZBN:

N/A

Legal trading name of importer:

IMBMS Limited

Importers address for service:

Level 1, 30 Highbrook drive, east Tamaki, Auckland 2013

Website:

www.imbms.co.nz

Email:

enquiry@imbms.co.nz

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9429047214316

Relevant Building Code clauses:*NZS3101* - 8.6.11.1, 8.6.11.2, 8.6.11.3, 8.6.11.4, 8.9.1.3`b, 8.9.1.3a, 8.7.5.2*NZTA Bridge manual* - 8.6.11.1, 4.2.1.f.iii, 8.7.5.2 (b), 8.9.1.3, 4.2.1.f.i, 4.2.1.f.iii*International Standard (ISO)* - ISO 15835 1-3, ISO 15698 1-2, ISO 15699**Statement on how the building product is expected to contribute to compliance:**

As per Standards New Zealand, NZS 3101 and NZTA bridge manual, the minimum requirements for the design for Couplers and Anchors is met under code requirements.

IMBMS undergo strict testing following the guidelines of NZTA and NZS.

Passing the qualification testing ensures end users that the products and system is compliant to code and gives confidence in specifying.

Limitations on the use of the building product:

IMBMS fittings and threads are not compatible with any other thread or system on the market in New Zealand.

Installation requirements:

There are 3 different types of assembly connection available depending on site requirements; namely Types 'A', 'B' & 'C'.

TYPE A - For joining reinforcing bars where one bar can rotate. Assume 1st stage bar is fixed and coupler is either flush or proud of the concrete face.

I. Remove coupler end cap

II. Remove the thread protection cap from the 2nd STAGE continuation bar.

III. Ensure the coupler threads and the bar end threads are clean and undamaged.

IV. Screw the 2nd STAGE continuation bar clockwise into the coupler until the bar will not rotate any further and tighten with either a pipe wrench or chain wrench applying a firm pressure.

V. Up to a maximum of 2 threads may be seen after fully tightening.

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TYPE B - For joining reinforcing bars where one bar can rotate but due to length and weight it is difficult to turn and undesirable to do so.

I. If the 1st stage threaded end has been cast into concrete using a pocket former or box out, first remove these, remove the plastic protection cap, clean and check there has been no damage to the threaded end.

OR

II. If the threaded end of the 1st stage bar has been cast proud of the concrete face, remove the plastic protection cap, clean and check there has been no damage to the threaded end.

III. The continuation bar will be supplied to site with the coupler already fitted. Ensure the coupler is fully screwed onto the bar end and the end of the bar and the end of the coupler are in alignment (flush).

IV. Offer 2nd STAGE continuation bar to 1st STAGE fixed bar, abut bar ends and rotate coupler clockwise from the 2nd STAGE continuation bar onto the 1st STAGE fixed bar until the coupler is fully screwed onto the fixed bar thread. Up to a maximum of 2 threads may be seen after fully tightening on the 1st STAGE fixed bar.

V. Rotate 2nd STAGE continuation bar clockwise into coupler (usually only possible by 1 turn) until bars are locked.

VI. Tighten 2nd STAGE continuation bar rotating clockwise into coupler by using a pipe or chain wrench. Apply firm pressure to lock.

TYPE C - For use where the continuation bar cannot be rotated - for joining reinforcing bars that are bent or cranked or where couplers are intended for use in prefabricated cages.

I. If the 1st stage threaded end has been cast into concrete using a pocket former or box out, first remove these, remove the plastic protection cap, clean and check there has been no damage to the threaded end.

OR

II. If the threaded end of the 1st stage bar has been cast proud of the concrete face, remove the plastic protection cap, clean and check there has been no damage to the threaded end.

III. The continuation bar will be supplied to site with the coupler and lock nut already fitted. Ensure both coupler and lock nut is fully screwed onto the bar end and the end of the bar and the end of the coupler are in alignment (flush).

IV. Offer 2nd STAGE continuation bar to 1st STAGE fixed bar (if the 2nd STAGE bar is a bent bar, position the bend in the relevant direction first). Abut bar ends and rotate coupler clockwise from the 2nd STAGE continuation bar onto the 1st STAGE fixed bar until the coupler is fully

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screwed onto the 1st STAGE fixed bar thread. Use a pipe or chain wrench and apply firm pressure to tighten the coupler on the 1st STAGE bar.

Up to a maximum of 2 threads may be seen on the 1st STAGE bar thread after fully tightening.

V. Rotate clockwise the lock nut until it butts up against the back of the coupler.

VI. Tighten the lock nut against the coupler using a pipe or chain wrench. Apply a firm pressure.

Is the building product/building product line subject to warning or ban under section 26:

NO

Date:

1st December 2023