

PBD 4 : 1992



PIAWAI BRUNEI DARUSSALAM
BRUNEI DARUSSALAM STANDARD

Specification for

**Scheduling, dimensioning, bending
and cutting of steel reinforcement
for concrete**

MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

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**Construction Planning and Research Unit
Ministry of Development
Old Airport, Jalan Berakas
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First edition

Attention is drawn to the fact that this Brunei Darussalam Standard does not confer any immunity from legal obligations in any contract for compliance to the Standard.

The Brunei Darussalam Standards are subject to periodical review according to the current needs of the local industries to keep abreast of progress in the industries concerned. Suggestions of amendments will be recorded and in due course brought to the notice of the committees concerned.

Amendments issued since publication

Amd No.	Date of issue	Text affected

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FOREWORD

This Brunei Darussalam Standard having been adopted from the British Standard BS 4466 : 1989, and prepared under the direction of the Technical Committee on Steel for the Reinforcement of Concrete was endorsed by the Ministry of Development was first published in 1992.

This standard was published with all specifications reviewed in accordance to the current needs of the local building industry and the British Standard BS 4466 : 1989.

In preparing this standard, references are made to the following :-

- | | | |
|----|----------------|--|
| 1. | PBD 3 : 1992 | Specification for carbon steel bars for the reinforcement of concrete. |
| 2. | PBD 2 : 1992 | Specification for steel fabric for the reinforcement of concrete. |
| 3. | PBD 5 : 1992 | Specification for cold reduced steel wire for the reinforcement of concrete. |
| 4. | BS 308 : 1984 | Engineering drawing practice
Part 1 : Recommendations for general principles. |
| 5. | BS 5750 : 1987 | Quality systems
Part 2 : Specification for production and installation. |
| 6. | BS 8110 : 1985 | Structural use of concrete
Part 1 : Code of practice for design and construction. |
| 7. | BS 4000 : 1983 | Specification for sizes of paper and board. |
| 8. | BS 6744 : 1986 | Specification for austenitic stainless steel bars for the reinforcement of concrete. |

Acknowledgement is made for the use of the British Standard BS 4466 : 1989 "Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete" on which this standard is based. Any reference to "British Standard" and "BS no." are replaced with "Brunei Darussalam Standard" (Piawai Brunei Darussalam) and "PBD no." as appropriate.

COMMITTEE REPRESENTATION

The Technical Committee on Steel for the Reinforcement of Concrete was entrusted by the Standards Committee for the preparation of this Brunei Darussalam Standard. The members of the Technical Committee are as follows :-

Awang Michael Ng	Ministry of Development
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Awang Haji Md Zin Haji Salleh	Public Works Department
Awang Mahendran Coomareswamy	Public Works Department
Awang Mohd Zain Haji Yahya	Public Works Department
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Awang Laurie Harris	Cooper McDonald & Partners
Awang Haji Mustafa Abu Bakar	Brunei Institute of Technology
Awang Nimal S. Chandrasena	Housing Development Department
Awang Jan Hiemstra	Brunei Shell
Dayang Masni Haji Mohsin	Ministry of Industry & Primary Resources
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Specification

1 Scope

This Brunei Darussalam Standard specifies requirements for the scheduling, dimensioning, bending and cutting of steel reinforcement complying with PBD 3, PBD 5, PBD 2 and BS 6744.

2 Definitions

For the purposes of this Brunei Darussalam Standard the following definitions apply.

2.1 bar. A steel product of any cross section complying with PBD 3 or BS 6744.

2.2 wire. A Steel product of any cross section complying with PBD 5.

2.3 size. The nominal size of a bar or wire in millimetres.

NOTE. This is given the symbol '*d*'.

2.4 nominal size. The diameter of a circle with an area equal to the effective cross-sectional area of the bar or wire.

2.5 mark number. An identifying number (which also appears on the delivery label) cross-referencing individual line entries on the schedule to the detailed drawing.

2.6 shape code. A two-digit coded definition of the reinforcement shape as given in tables 1 and 2.

2.7 pitch. The centre-to-centre spacing of bars or wires in a sheet of fabric or the longitudinal spacing of turns in a helix.

2.8 mesh. The rectangle defined by the pitch of the longitudinal wires and the pitch of the cross wires in a sheet of fabric.

2.9 fabric. A factory-made product of welded bars or wires complying with PBD 2.