



COMPANY STANDARDS

TITLE:

**PLATES FOR MEDIUM STRENGTH,
STRUCTURAL PURPOSE**

AMENDMENT No. 02

DATE: 2019-10-28

STD No. C1001-01

AMENDMENT SHEET - 1/1

ISSUE No. 03

In page 1 of 3, clause 3.1, section "d" shall read as below instead of the existing:

- d) Plate supplies of thickness 10mm and over, shall conform to Ultrasonic test requirements as per ASTM A578, Level B.

Ref: Mail from AGM(CMRM), dated: 02.08.2019

APPROVED BY:


GE

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In page 2 of 3, Clause - 5 'QUALITY REQUIREMENTS' shall be read as follows instead of existing :

5. **QUALITY REQUIREMENTS** : Quality Requirements shall be as per Table-1 (Chemical Composition), Table-2 (Mechanical Properties) and Clause 2 of C1001 Issue-03.

TABLE-1

DESIGNATION AND GRADES FOR DIFFERENT THICKNESSES OF PLATES

SL No	THICKNESS mm	GRADES TO BE USED	DESIGNATION
01	5	A	C100101005
02	6	A	C100101006
03	8	A	C100101008
04	10	B	C100101010
05	12	B	C100101012
06	14	B	C100101014
07	16	B	C100101016
08	20	B	C100101020
09	22	B	C100101022
10	25	B	C100101025
11	28	B	C100101028
12	32	B	C100101032
13	36	B	C100101036
14	40	B	C100101040
15	45	B	C100101045
16	50	B	C100101050
17	56	B	C100101056
18	63	B	C100101063
19	70	B	C100101070
20	75	B	C100101075
21	80	B	C100101080
22	85	B	(C100101085)
23	100	B	C100101100
24	110	B	C100101110
25	130	B	C100101130
26	180	B	C100101180

- Note :** 1) Sizes whose designations are shown in brackets shall not be used in new designs.
2) Superior grades are acceptable, if offered.

Ref : I) Minutes of PR meeting of Sept. 2011 held at EMD
II) EP & ETD directives vide ref: EMIR/Steel Plates/GE dt. 2011-09-22

APPROVED BY:

[Signature]
GE



NEW FRONTIERS. NEW DREAMS

COMPANY STANDARDS

TITLE :

PLATES FOR MEDIUM STRENGTH
STRUCTURAL PURPOSE

C1001-01

PAGE No. 01 OF 03

DATE: 2008-05-17

0. GENERAL INFORMATION :

- This is a branch standard of Company Standard C1001 Issue-03 and is meant for plates.
- The quality requirements of the steel grades shall be as per C1001 Issue-03.
- This Issuance supersedes C1001-01 Issue-02 dated 2002-09-15.

1. SCOPE :

This standard provides the recommended sizes and tolerances, supply condition, quality requirements, designation and marking of plates of different thicknesses.

2. DEFINITION :

Plate is a hot rolled flat product rolled from ingot or slab; rectangular in cross section, of thickness over 5mm, of width over 1000 mm, and supplied in straight lengths.

3. CONDITION OF SUPPLY :

3.1 FREEDOM FROM DEFECTS - WELD REPAIRS :

- Material supplied shall be free from mill scale, heavy rust, corrosion pitting, cracks and laminations.
- Minor surface defects may be removed by the manufacturer / supplier by grinding, provided the thickness is not reduced locally by more than 4 % below the minimum specified nominal thickness.
- Weld repair for removal of surface defects is not permissible.
- Non-Destructive tests to be carried out as per Purchase Order/ Contract.
- The plates shall be provided with a corrosion preventive coating to suit transit and storage.

PREPARED BY: CSD/
CFWC-MATERIALS

ISSUE No. :
03

REPLACES:

REF :

APPROVED BY :

G

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DCM

4. MATERIAL :

The material shall conform to Company Standard C1001 Issue-03 'Medium Strength Structural Steel'. Steel grades to be used for different plate thicknesses shall be as per Table-1.

5. QUALITY REQUIREMENTS :

Shall be as per Table-1 & Table-2 and Clause 2 of C1001 Issue-03.

TABLE - 1**DESIGNATION AND GRADES FOR DIFFERENT THICKNESSES OF PLATES**

Sl. No.	THICKNESS mm	GRADES TO BE USED IN ORDER OF PREFERENCE *	DESIGNATION
01	5	A	C100101005
02	6	A	C100101006
03	8	A	C100101008
04	10	C	C100101010
05	12	C	C100101012
06	14	C	C100101014
07	16	C	C100101016
08	20	C	C100101020
09	22	C	C100101022
10	25	C	C100101025
11	28	C	C100101028
12	32	C	C100101032
13	36	C / B	C100101036
14	40	C / B	C100101040
15	45	C / B	C100101045
16	50	C / B	C100101050
17	56	C / B	C100101056
18	63	C / B	C100101063
19	70	C	C100101070
20	75	C	C100101075
21	80	C	C100101080
22	85	C	(C100101085)
23	100	C	C100101100
24	110	C	C100101110
25	130	C	C100101130
26	180	C	C100101180

Note : Sizes whose designations are shown in brackets shall not be used in new designs.

* As per Company Standard C1001 Issue-03 / IS : 2062 latest issuance.

Superior grades are acceptable, if offered, eg. Grade C in place of grade B and grade B in place of grade A.

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COMPANY STANDARDS

C1001-01

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PAGE No. 03 OF 03

DATE: 2008-05-17

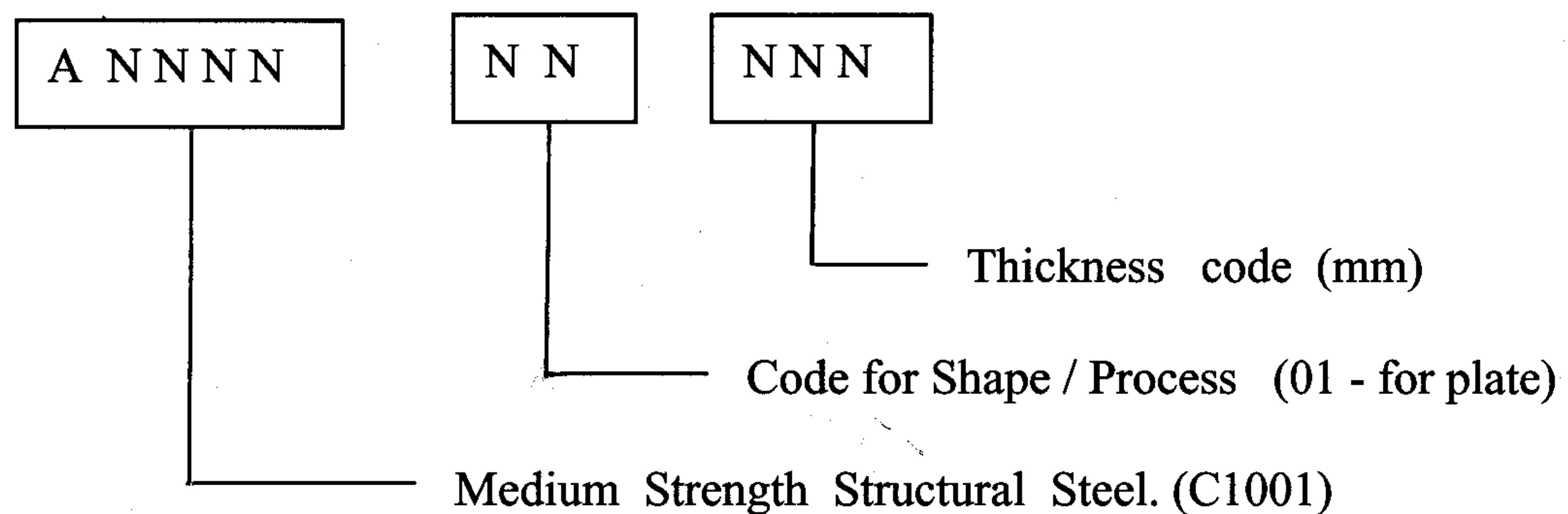
6. DESIGNATION :

A plate is designated by 10 – digit code.

The first 5 digits pertain to the material . 6th and 7th digits signify shape/ Process. The last 3 digits signifies the thickness of plate.

Example :

A 6 mm thick plate shall be designated as C100101006 and a plate of 110 mm thickness shall be designated as C100101110.



7. DIMENSIONS AND TOLERANCES :

Preferred thickness of plates shall be as indicated in Table-1

Width and length of plates shall be as per the Purchase Order / Contract.

Unless otherwise specified, tolerances shall be as per latest issuance of IS : 1852, 'Rolling and cutting tolerances for hot rolled steel products'.

8. COLOUR CODE :

Colour code shall be Grey - Aluminium White - Black. For further details refer to Company Standard PR1002-C.

9. MARKING :

The products shall be suitably marked to identify the following :

Manufacturer's Name/Trade mark
Material and Grade
Size
Heat number

10. Note : The latest issuance of Standards cited shall be referred.

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