

#### **Bid invitation**

Information

Description: CHANNEL ISMC 100X50X5 MM Bid invitation number: 6300040003

Version:

Bid invitation rules

Bid invitation currency: INR Timezone: INDIA

Submission period:09.10.2025 14:00:00Opening date:09.10.2025 14:30:00Created On:07.10.2025 06:23:50

#### **Bid invitation text:**

Material to be supplied as per specification attached to this tender. Otherwise material will be rejected. Attachments:

%

Specification

Digital Signature

Bid invitation details

**CGST - Central GST** 

Item	Product Price Conditio	Description n	Vendor produc number	t Delivery date/ performance period	Quantity
1	C100128100	HR IS:2062 CHANNEL ISMC 100X50X5 MM	_	13.10.2025 00:00:00	3.840 TO
	IGST -Integrated	GST	% _		
	SGST - State GS	ST Y	% _		
	UTGST	· ·	% _		
	Basic Price	1	NR		

#### **BEML LIMITED**

(A Govt. of India Mini Rathna Company under Ministry of Defence) BEML Soudha, 23/1, 4th Main Road, SR Nagar, Bangalore 560 027. Phone 080-22963179 email: lakshmana.murthy@bemlltd.in

Quotation through GeM platform is invited only from OE / OE authorized firms / Class I steel manufacturers/ Traders for the supply of item as per specification/QAP.

Sl.	Part no	Specification	Shape	BEML STD/Spec	Qty in Kgs	Plant
1	C100128100	HR IS:2062 CHANNEL ISMC 100X50X5 MM	Chanel	C1001-28	3840	KGF

<sup>#</sup> QAP, BEML STD attached in Annexure

#### **Terms& condition**

Sl. No.	Particulars		
1	Material Grade	As per the material indicated at table above.	
2	Quote	Rate to be quoted as per tendering unit only, <b>including GST.</b>	
3	Delivery Terms	F.o.R BEML – EM Div. EM KGF	
4	Delivery Schedule	Oct'2025.	
5	Payment terms	60 days on receipt & acceptance. For MSME firms, as per MSME act.	
6	MOQ	Buyer may quote MOQ, however, final qty is on BEML discretion.	
7	Local content	Firm shall submit the local content 50% as per Make in India for Class I and 20% for Class II Supplier	
8	Mill TC/ NABL TC	Bidder shall supply material with Mill / NABL TC.	
9	Bidder criteria	Only OE mills / Class -I manufacturer / Traders having BEML vendor code are invited.	
10	Deferent Clause	PO is subject to deferment, re-scheduling, cancellation, Short / Pre-closure based on equipment sales order.	

Bidder's confirmation

I hereby confirm to supply the item as per above tender conditions

Seal	&	signature

<sup>#</sup> Bidders shall submit the QAP /STD accepting parameters with seal & signature for the technical Evaluation. Failing to submit the QAP & TDC, bidder will be disqualified.



# QUALITY ASSURANCE PLAN Sheet No: 1 of 4 MODEL DOC No. QAP/C1001RM PART NAME C1001 CHANNEL ISSUE No. 01 PART NAME C1001 28 DATE 12/08/2024

SI. No.	Components / Operation	Characteristics to be assessed	Type / method of Check	Quantum of Check	Reference Standards or Documents	Acceptance Norms	Format of records Supplier	Inspecti on scope BEML
1	HOT ROLLED CHANNELS	Manufacturing route	MILL TC		Hot rolling process	MILL TC	P	R
2		Chemical Composition	CHEMICAL ANALYSIS (SPECTROMETER/ WET ANALYS IS)	One sample/ heat /cast batch	One sample per heat/cast batch shall be checked for chemical composition and shall conform to the company standard C1001 as below as mentioned in & reports to be submitted along with supply    Elements	MILL TC/ NABL LAB REPORT	P	R
3		Carbon equivalent	Carbon equivalent calculation from chemistry		0.41 Max	Mill TC/NABL lab report	P	R

**NUMBER** 



#### QUALITY ASSURANCE PLAN

Sheet No: 2 of 4

MODEL		DOC No.	QAP/C1001RM
PART NAME	C1001 CHANNEL	ISSUE No.	01

SI. No.	Components / Operation	Characteristics to be assessed	Type / method of Check	Quantum of Check	Reference Standards or Documents		Acceptance Norms	Format of records Supplier	Inspecti on scope BEML
4	HOT ROLLED CHANNELS	Mechanical properties	properties testing on	One sample/ heat /cast batch		requirements  410 Min  250 Min  Intenal bend diameter 2T (T Thickness of plate) for plate thickness above 25 mm]	Mill TC/NABL lab report	P	R
5		DIMENSIONS & TOLERANCES	MEASUREMENT	SAMPLING PLAN	Permissible limits f the length		Dimension report	P	R



# QUALITY ASSURANCE PLAN Sheet No: 3 of 4 MODEL DOC No. QAP/C1001RM PART NAME C1001 CHANNEL ISSUE No. 01 PART NAME C1001 28 DATE 12/08/2024

SI. No.	Components / Operation	Characteristics to be assessed	Type / method of Check	Quantum of Check	Reference Standards or Documents		Acceptance Norms	Format of records Supplier	Inspecti on scope BEML
	HOT ROLLED CHANNELS	DIMENSIONS & TOLERANCES	MEASUREMENT	PLAN	The tolerances on flange wich mm shall be $\pm 2.0$ mm Out of squareness or out of parallel with in the tolerance Flatness of web: The tolerances on flatness of be as follows  Convexity  Concavity	oarallel: the flange shall be of 1 in 60  Touter surface of web shall  Not permitted  15% of Nominal thickness of web	DIMENSION CHECK SHEET	P	R
8		WEIGHT	MEASUREMENT	100%	Tolerances shall be as per latest issuances IS1852 In the case of channels tolerances on weight per meter shall be $\pm 2.5\%$		DIMENSION CHECK SHEET	P	R
9		VISUAL EXAMINATION	Visual	100 % ON ALL BARS	Material shall be free from defects such as lamination, crabs, cracks, Mill scale & rust. No weld repairs are permitted		TEST REPORT	P	R
10		MARKING	VISUAL	100 % ON ALL BARS	All material in each consignimarked to identify the supplilength.			Р	R

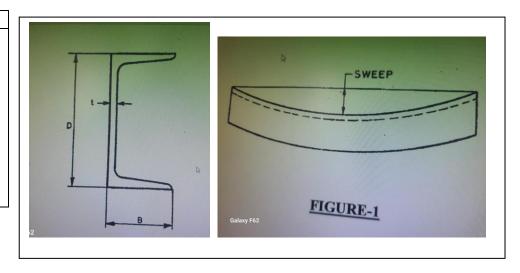
**NUMBER** 



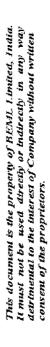
# QUALITY ASSURANCE PLAN Sheet No: 4 of 4 MODEL DOC No. QAP/C1001RM PART NAME C1001 CHANNEL ISSUE No. 01 PART NUMBER C1001 28 DATE 12/08/2024

SI. No.	Components / Operation  Characteristics to be assessed	Type / method of Check	Quantum of Check	Reference Standards or Documents	Norms	Format of records Supplier	Inspecti on scope BEML
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	AQL	Sample Size in Nos.	Lot Size in Nos.
	1.5%	8	2 ~ 50
P - Perform the Activity	1.0%	13	51 ~ 90
W - Witnessing of Activity	0.65%	20	91~150
R - Reviewing of QA Repo	0.40%	32	151~280
A – Audit check the activ	0.25%	50	281~500
	0.15%	80	501~1200
	0.10%	125	1201~3200
7	0.065%	200	3201~10000



Prepared By :	Checked By :	Reviewed By :	Approved By :
C.VASANTHAKUMAR	MAHESH KULKARNI		
Sr. Manager – Receiving Quality	DGM – Receiving Quality		Chief of Quality Engineering





TITLE:

C1001- CHANNELS, HOT ROLLED

AMENDMENT No. 01

DATE: 2020-09-28

STD No. C1001-28

**AMENDMENT SHEET - 1/1** 

ISSUE No. 02

In page 4 of 4, add the following sizes in TABLE - 1:

#### TABLE - 1, DESIGNATIONS FOR DIFFERENT SIZES

SL. No	Depth of Channel (D), mm	Width of flange (B), mm	Thickness of Web (t), mm	Mass, kg/m	Designation
9	380	85	10	44.8	C100128380

Ref: GEH Mail, dated 12.01.2019

APPROVED BY:

411 010

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#### **COMPANY STANDARDS**

TITLE:

C1001 - CHANNELS, HOT ROLLED C1001-28

**PAGE No. 01 OF 04** 

DATE: 2008-09-13

#### 0. GENERAL INFORMATION:

- a) This is a branch standard of Company Standard C1001 Issue-03 and is meant for channels, hot rolled.
- b) The quality requirements of the steel grades shall be as per C1001 Issue-03.
- c) This Issuance supersedes C1001-28 Issue-01 dated 1994-01-10 and incorporates subsequent amendment.
- d) This revision is necessitated consequent to the revision of Company Standard C1001 / IS: 2062.

#### 1. SCOPE:

This standard provides supply conditions, material, designation, dimensions and tolerances and marking of channels, hot rolled, of different depths and widths. 'Channels' fall under the category of 'Indian Standard Medium Weight Channels (ISMC) of IS: 808.

#### 2. CONDITION OF SUPPLY:

- a) The steel grades used shall conform to grade A or B of Company Standard C1001 Issue-03 / IS: 2062.
- b) Weld repairs to eliminate surface flaws is not permitted.
- c) Material shall be supplied to the dimensions as specified in the Purchase Order / Contract.
- d) Material supplied shall be free from heavy rust, corrosion pitting, surface flaws such as seams and cracks, laminations, imperfect edges and other harmful defects. Channels shall also be free from twists and bends.

#### 3. MATERIAL:

The material shall conform to grade A or B of Company Standard C1001 Issue-03 'Medium Strength Structural Steel'.

PREPARED BY:CSD/	ISSUE No. :	REPLACES:	REF:
CFWC-MATERIALS	02		IS: 808
APPROVED BY:	HIII .	Oldbrigest	D M
	4	*	411006

#### **COMPANY STANDARDS**

TITLE:

**PAGE No. 02 OF 04** 

DATE: 2008-09-13

C1001 - CHANNELS, HOT ROLLED



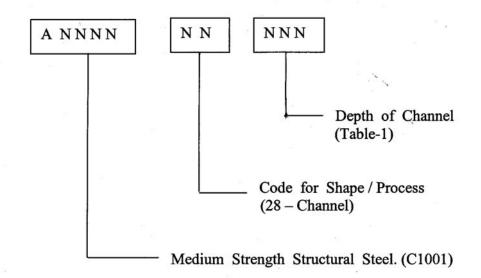
#### 4. **DESIGNATION**:

A channel is designated by 10 - digit code.

The first 5 digits pertain to the material. 6 th and 7 th digits signify shape/process. The last 3 digits signifies the depth of the channel in mm.

#### Example:

A channel having depth of 75 mm shall be designated as C100128075 and depth of 250 mm shall be designated as C100128250.



#### 5. DIMENSIONS AND TOLERANCES:

Sizes of channels shall be as indicated in Figure-2 and Table-1 along with the corresponding designations. Sectional properties shall be as per IS: 808 'Dimensions for hot rolled channel sections'.

#### 6. LENGTH:

Unless otherwise specified in the Purchase Order / Contract, hot rolled channels shall be supplied in 3 to 5 meters length.

#### 7. TOLERANCES:

The tolerances on depth, width of flange, out of square or out of parallel, flatness of web, camber & sweep and weight shall be as per the following clauses:

I) accument is the property of BENIL Limited, India II must not be used directly or indirectly in any way detrimental to the interest of Company without written consent of the proprietors.



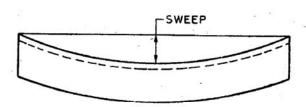
TITLE:

C1001 - CHANNELS, HOT ROLLED C1001-28

**PAGE No. 03 OF 04** 

DATE: 2008-09-13

7.1 CAMBER AND SWEEP: The maximum permissible camber and sweep for channels shall be 0.20 percent of the length. (Figure-1)



#### FIGURE-1

7.2 **DEPTH**: The tolerances on depth of channels shall be as follows:

Depth	1.5	Tolerance
Upto and including 200 mm	87	± 2.5 mm
Over 200 mm and upto and including	400 mm	± 3.0 mm

- 7.3 WIDTH OF FLANGE: The tolerance on flange width upto and including 100 mm shall be  $\pm$  2.0 mm.
- 7.4 OUT OF SQUARE OR OUT OF PARALLEL:

The flanges shall be parallel within the tolerance of 1 in 60.

7.5 FLATNESS OF WEB: The tolerance on flatness of outer face of web shall be as follows:

Convexity	not permitted	<u> </u>
Concavity	15 percent of nominal thickness o	f web

#### **7.6 WEIGHT** :

In the case of channels tolerances on weight per metre shall be  $\pm$  2.5 percent.

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

#### 8. COLOUR CODE:

As only channels of a single material are being procured, no colour codification is necessary.

#### **COMPANY STANDARDS**

TITLE:

PAGE No. 04 OF 04

DATE: 2008-09-13

C1001 - CHANNELS, HOT ROLLED



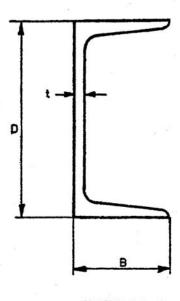


FIGURE - 2

TABLE-1
DESIGNATIONS FOR DIFFERENT SIZES

SL No	Depth of Channel (D) mm	Width of Flange (B) mm	Thickness of Web (t) mm	Mass kg/m	Designation
1	75	40	4.8	7.14	C100128075
2	100	50	5.0	9.56	C100128100
3	125	65	5.3	13.10	C100128125
4	150	75	5.7	16.80	C100128150
5	175	75	6.0	19.60	C100128175
6	200	75	6.2	22.30	C100128200
7	* 250	83	11.0	38.10	C100128250
8	300	90	7.8	36.30	C100128300

<sup>\* -</sup> Heavy section

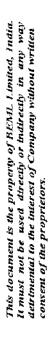
#### 9. MARKING:

The supplies shall be suitably marked to identify the following:

Manufacturer's Name / Trade Mark Grade of material Size Heat number

--oOo--

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TITLE:

C1001- CHANNELS, HOT ROLLED

AMENDMENT No. 01

DATE: 2020-09-28

STD No. C1001-28

**AMENDMENT SHEET - 1/1** 

ISSUE No. 02

In page 4 of 4, add the following sizes in TABLE - 1:

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SL. No	Depth of Channel (D), mm	Width of flange (B), mm	Thickness of Web (t), mm	Mass, kg/m	Designation
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Ref: GEH Mail, dated 12.01.2019

APPROVED BY:

411 010

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# COMPANY STANDARDS

TITLE:

C1001 - CHANNELS, HOT ROLLED C1001-28

PAGE No. 01 OF 04

DATE: 2008-09-13

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- c) This Issuance supersedes C1001-28 Issue-01 dated 1994-01-10 and incorporates subsequent amendment.
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# 1. SCOPE:

This standard provides supply conditions, material, designation, dimensions and tolerances and marking of channels, hot rolled, of different depths and widths. 'Channels' fall under the category of 'Indian Standard Medium Weight Channels (ISMC) of IS: 808.

# 2. CONDITION OF SUPPLY:

- a) The steel grades used shall conform to grade A or B of Company Standard C1001 Issue-03 / IS: 2062.
- b) Weld repairs to eliminate surface flaws is not permitted.
- c) Material shall be supplied to the dimensions as specified in the Purchase Order / Contract.
- d) Material supplied shall be free from heavy rust, corrosion pitting, surface flaws such as seams and cracks, laminations, imperfect edges and other harmful defects. Channels shall also be free from twists and bends.

# 3. MATERIAL:

The material shall conform to grade A or B of Company Standard C1001 Issue-03 'Medium Strength Structural Steel'.

PREPARED BY:CSD/	ISSUE No.:	REPLACES:	<b>REF</b> :
CFWC-MATERIALS	02		IS: 808
APPROVED BY:		ED (E)	D(M)
		•	411006

# COMPANY STANDARDS

TITLE:

PAGE No. 02 OF 04

DATE: 2008-09-13

C1001 - CHANNELS, HOT ROLLED



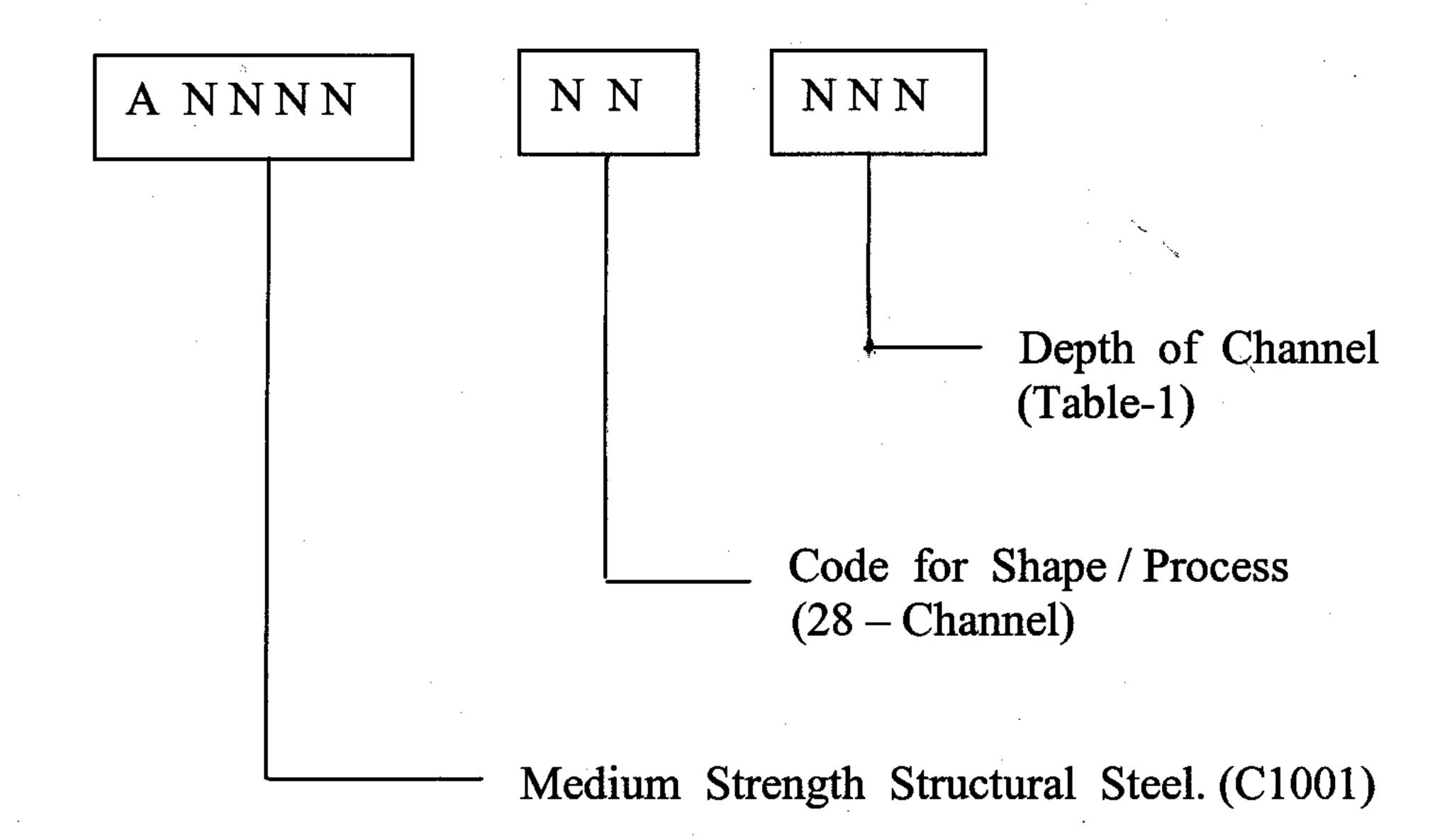
# 4. **DESIGNATION**:

A channel is designated by 10 - digit code.

The first 5 digits pertain to the material. 6<sup>th</sup> and 7<sup>th</sup> digits signify shape, process. The last 3 digits signifies the depth of the channel in mm.

# Example:

A channel having depth of 75 mm shall be designated as C100128075 and depth of 250 mm shall be designated as C100128250.



### 5. DIMENSIONS AND TOLERANCES:

Sizes of channels shall be as indicated in Figure-2 and Table-1 along with the corresponding designations. Sectional properties shall be as per IS: 808 'Dimensions for hot rolled channel sections'.

## 6. LENGTH:

Unless otherwise specified in the Purchase Order / Contract, hot rolled channels shall be supplied in 3 to 5 meters length.

# 7. TOLERANCES:

The tolerances on depth, width of flange, out of square or out of parallel, flatness of web, camber & sweep and weight shall be as per the following clauses:

It must not be used directly or indirectly in any was detrimental to the interest of Company without written



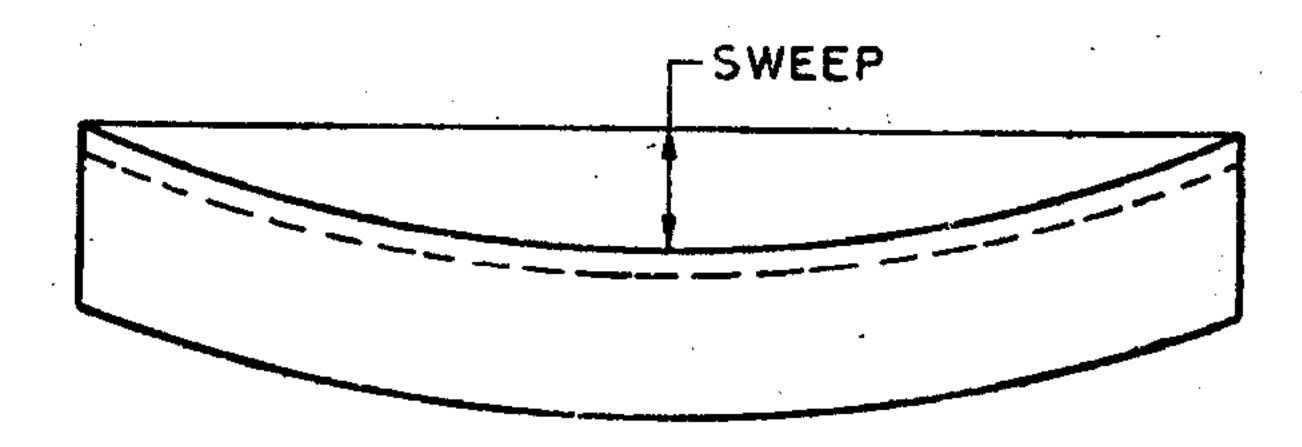
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C1001 - CHANNELS, HOT ROLLED C1001-28

PAGE No. 03 OF 04

DATE: 2008-09-13

7.1 CAMBER AND SWEEP: The maximum permissible camber and sweep for channels shall be 0.20 percent of the length. (Figure-1)



# FIGURE-1

7.2 DEPTH: The tolerances on depth of channels shall be as follows:

Depth	Tolerance
Upto and including 200 mm	± 2.5 mm
Over 200 mm and upto and including 400 n	1m ± 3.0 mm

- 7.3 WIDTH OF FLANGE: The tolerance on flange width upto and including 100 mm shall be  $\pm 2.0 \text{ mm}$ .
- 7.4 OUT OF SQUARE OR OUT OF PARALLEL:

The flanges shall be parallel within the tolerance of 1 in 60.

7.5 FLATNESS OF WEB: The tolerance on flatness of outer face of web shall be as follows:

Convexity	not permitted
Concavity	15 percent of nominal thickness of web

# **7.6 WEIGHT** :

In the case of channels tolerances on weight per metre shall be  $\pm$  2.5 percent.

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

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# COMPANY STANDARDS

TITLE:

PAGE No. 04 OF 04

DATE: 2008-09-13

C1001 - CHANNELS, HOT ROLLED



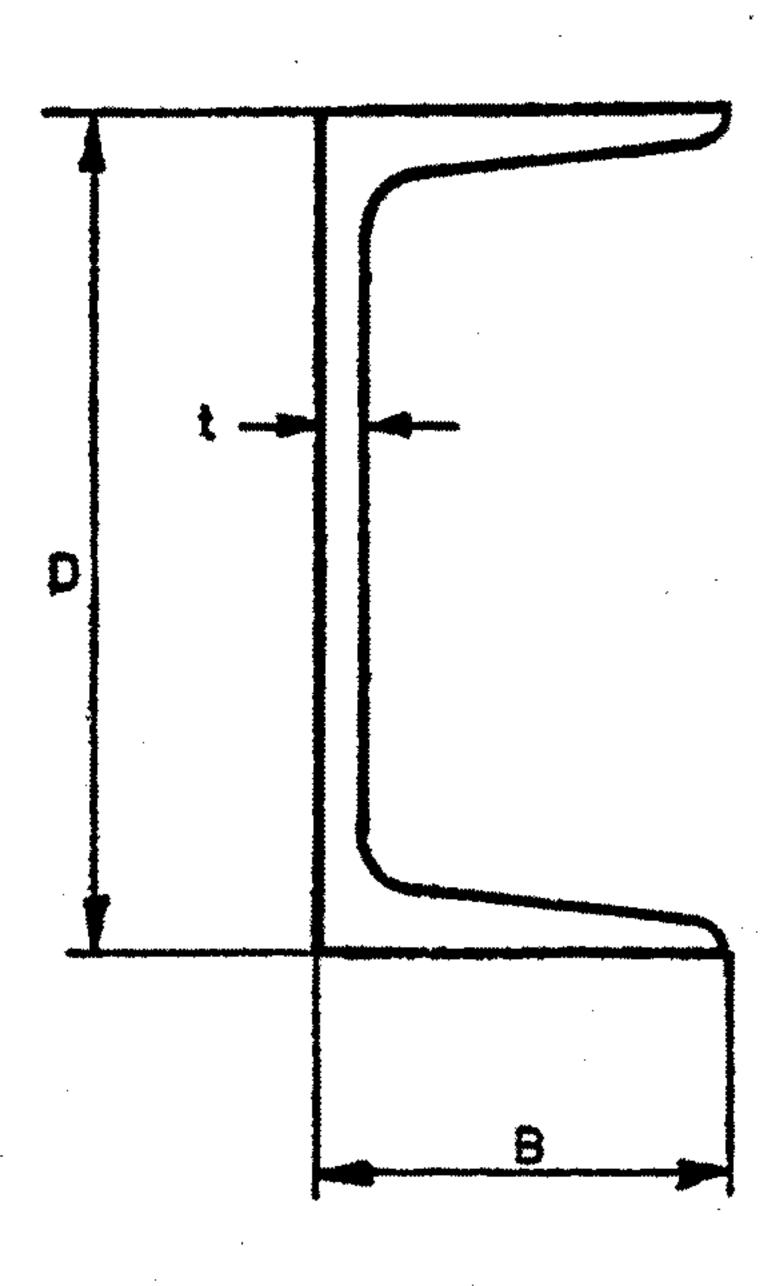


FIGURE - 2

TABLE-1

DESIGNATIONS FOR DIFFERENT SIZES

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3	125	65	5.3	13.10	C100128125
4	150	75	5.7	16.80	C100128150
5	175	75	6.0	19.60	C100128175
6	200	75	6.2	22.30	C100128200
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# 9. MARKING:

The supplies shall be suitably marked to identify the following:

Manufacturer's Name / Trade Mark Grade of material Size Heat number

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