

FRONZ / ONTRACK
APPROVED CODE OF PRACTISE
FOR
HERITAGE NETWORK OPERATORS

Mechanical Supplementary Code
B3.1.2.04

Branding And Storing
Manufacturing Steels

Issue	Prepared (P), Reviewed (R), Amended (A)	Approved by	Effective Date
1	P McCallum (P)	Heritage Technical Committee	27 June 2006

Reference Material

Source	Description	Date
NZ Railways	Mechanical Branch Code No 72, Issue 3	15/3/1936

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Amendment History

Version	Section	Amendment

Branding And Storing Manufacturing Steels

1 Introduction

This Supplementary Code relates to:-

B3.1.1.01 - Mechanical Code Of Practice, Section 3.17 - Materials

It contains:-

- NZ Railways Mechanical Branch Code 72 - Branding And Storing Manufacturing Steels; Issue 2 of 15/1/1936

which contains information relevant to the uses of steel in railway work. Operators are to use those sections that are relevant to their operation.

Please note that many of the steel specifications quoted are no longer available and some research will be required to find modern equivalents.

NEW ZEALAND GOVERNMENT RAILWAYS LOCOMOTIVE AND WORKSHOPS BRANCH	BRANDING AND STORING MANUFACTURING STEELS.	CODE No. 72
		Issue No 2 Date Issued 15/1/36

(1) BRANDING.

All bars of manufacturing steel held in stock by Stores Branch shall be branded on one end with the colours shown in the following table, and officers ordering these materials must be acquainted with the colour branding system.

Specification.	Material.	Application.	Colour.
B.S.S. Report No. 24, Pt. 6, Spec. No. 17/1929[42] or I.R. Mills Co., Otago steel	Mild steel plates, sections, and bars	Frames, smokebox, cab, bogie frames, tanks, points and crossings, &c.	Green.
B.S.S. Report No. 24, Pt. 6, No. 16/1929 [16/1942]	Bars - Acid steel	Rivet, bolts, and nuts	Red.
[B.S.S. Report No. 24, Pt. 6, Spec. No. 16/1942	Mild steel plates, sections and bars	Smokebox, cab, bogie frames, tanks, points and crossings, rivet, bolts, and nuts.	Red]
N.Z.R. Spec. No. 380 Supertough "C" steel	Bar steel Bar steel	Boiler stays Spring hangers, guidebar bolts, buffer-pins, connecting and side-rod strap bolts	Blue. Brown.
B.S.S. No. 64, 1913, or "fishbolt" steel	Bar steel	Track and crossing bolts and nuts	White.
B.S.S. Report No. 24, Pt. 4, Spec. No. 9/1930[1941], Class "A" steel	Steel blooms for case-hardened forgings	Axle-box wedges, motion gear, reversing gear, &c.	White with green stripe.
B.S.S. Report No. 24, Pt. 4, Spec. No. 9/1930[1941], Class "D" steel	Steel blooms for forgings with wearing surfaces, not case hardened	Piston-rods, valve-spindles, crosshead and side-rod cotters, &c.	Yellow with green stripe.
B.S.S. Report No. 24, Pt. 4, Spec. No. 9/1930[1941], Class "C" steel	Steel blooms	Connecting-rods, coupling -rods and straps, crossheads (forged), crank arms	Red with green stripe,
B.S.S. Report No. 24, Pt. 4, Spec. No. 9/1930[1941], Class "B" steel	Steel blooms for ordinary loco. and boiler forgings, not case hardened	Ashpan gear, hornstays, boiler seatings, brake rigging, &c.	Green with white stripe.
B.S.S. No 6B, Pt. 3, and B.S.S. No 7B/1932 [N.Z.R. Spec No. 407] [Silico-Manganese Spring Steel [B.S.S. No 15/1936	Spring steel Spring steel Structural Steel Bar	Laminated volute and helical springs Laminated volute and helical springs Bolts, nuts and rivets, Maintenance Branch	Black. Black with white stripe.] Yellow]
		[Deleted. 24/563 of 24/11/1946]	

(2) STORING.

The Stores Branch shall arrange the storing and segregation of all steels conforming to the specifications enumerated above, so that there is no confusion when quantities of different steels are

issued on the same order.

Lengths of bar material remaining after the completion of an order shall be returned to stores stock immediately, and credit obtained for the quantity returned. The specification colour brand must be retained on all bars returned to stores stock.

[(3) SPECIAL STEELS

Special Steels (e.g. high speed steel [,free cutting steel] and die steel) are to be painted with aluminium paint at one end. The trade name of the steel (abbreviated) and grade is to be stamped on the aluminium surface or, if the section is too small, close to the painted end. Before any part-bar is issued from Stores one end is to be painted and branded the same as the parent bar. Unused part bars of special steels must be returned promptly to Stores with the painting and branding intact.]

[C.M.E,s 24/563 of 13.2.61

C.M.E,s 24/563 of 5.9.58

C.M.E,s 24/563 of 8.11.83