

AMENDMENT No. 01 APPROVED ON 1996-10-17 TO SLS 907 : Part 3 : 1990

**SRI LANKA STANDARD SPECIFICATION FOR DIMENSIONS AND SECTIONAL PROPERTIES OF HOT ROLLED STRUCTURAL STEEL SECTIONS
PART 3 - U SECTIONS (CHANNELS)**

PAGE 1 AND 3

Title of Standard

Delete the existing title of the standard and substitute the following:

**‘SPECIFICATION FOR HOT ROLLED STRUCTURAL STEEL SECTIONS
PART 3 – U SECTIONS (CHANNELS)’**

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Clause 1 Scope

Delete the contents and substitute the following:

“This standard specifies the requirements for chemical composition, manufacture, finish mechanical properties, dimensions, sectional properties, marking, testing and sampling of hot-rolled structural steel U sections”.

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Table 1 - Dimensions and properties of hot rolled channels

Incorporate of the following sizes in Table 1 before the size (Designation) 75 x 40 x 6 given in Column 1 :

TABLE 1 - Dimensions and properties of hot rolled channels

Designation H x B x m*	Mass m Kg/m	Section al area a cm ²	Depth of section H mm	Width of Flange B mm	Thickness of Flange t _r cm	Thickness of web t _w cm	Centre of gravity C _x cm	Radius at Roof r ₁ cm	Radius at Toe r ₂ cm	Moments of Inertia		Radii of Gyration		Moduli of Section		Stop of Flange 0 degree
										I _x cm ⁴	I _y cm ⁴	r _x cm	r _y cm	Z _x cm	Z _y cm ³	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
50 x 25 x 4	3.86	4.92	50	25	6.0	5.0	0.81	6.0	3.0	16.8	2.49	1.85	0.71	6.73	1.48	96.0
50 x 25 x 5	4.87	5.33	50	25	7.0	5.0	-	6.0	3.0	-	-	-	-	-	-	96.0

- Rounded off value of mass

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Clause 6.3.9 Tolerance on mass

Incorporate the following after Table 6:

“6.4 Chemical composition

The chemical composition of hot rolled U sections shall be in accordance with **6.1** and **SLS 1006 : Part 1 : 1993.**

6.5 Manufacture

The manufacture of hot rolled U sections shall be in accordance with **6.2** of **SLS 1006 : Part 1 : 1993.**

6.6 Finish

The finish of hot rolled U sections shall be in accordance with **6.3** of **SLS 1006 : Part 1 : 1993.**

6.7 Mechanical Properties

The mechanical properties of hot rolled U sections shall be in accordance with **6.4** of **SLS 1006 : Part 1 1993”**

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Clause 7 MARKING

Incorporate the following after this clause:

“8 METHODS OF TEST

The methods of test of hot rolled U sections shall be in accordance with **8** of **SLS 1006 : Part 1 : 1993.**

9 CERTIFICATE OF COMPLIANCE

The certificate of compliance of hot rolled U sections shall be in accordance with **9** of **SLS 1006 : Part 1 : 1993.**

APPENDIX A

Sampling and criteria for conformity

The sampling and criteria for conformity of hot rolled U sections shall be in accordance with Appendix **A** of **SLS 1006 : part 1 : 1993.**
