

SRI LANKA STANDARD 1170 : PART 4 : 1998

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**CODE OF PRACTICE ON IDENTIFICATION,
GRADING AND MARKING OF IMPORTED
CONSTRUCTION TIMBER
PART 4 : DOCUMENTATION FOR GRADING**

SRI LANKA STANDARDS INSTITUTION

**CODE OF PRACTICE ON IDENTIFICATION, GRADING AND MARKING
OF IMPORTED CONSTRUCTION TIMBER
PART 4 : DOCUMENTATION FOR GRADING**

SLS 1170:Part 4 : 1998

Gr. 8

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Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This standard does not purport to include all the necessary provisions of a contract.

Sri Lanka Standard
CODE OF PRACTICE ON IDENTIFICATION, GRADING AND MARKING OF
IMPORTED CONSTRUCTION TIMBER
PART 4 : DOCUMENTATION FOR GRADING

FOREWORD

This Sri Lanka Standard Code of Practice was approved by the Sectoral Committee on Timber & Timber Based Products and was authorised for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 1998-03-19.

Local timber suitable for structural use is in short supply. In addition, government restrictions on felling to protect the environment as well as controls on transport and marketing of timber, have also contributed to the spiralling timber costs. In spite of higher costs, timber is found to be indispensable as a construction material in Sri Lanka. To cater for the demand, the government is now encouraging the import of construction timber by granting import duty reductions, and this trend is expected to continue for some time.

Timber is a perishable material which needs great care in specification, selection and handling of bulk imports. Dealers and users also need to be educated to help them sell/select their requirements. Import inspections should be comprehensive and streamlined. Past experience on import of timber to Sri Lanka, which sometimes discouraged the prospective users, has further underlined the need for establishing some guidelines to help the importers, timber merchants and the users.

For most effective use of construction timber, it must be structurally designed to suit the specific application. To accomplish this goal, timber, over the years, was evolved as an engineering material in spite of its high variability and inherent strength reducing defects by the development of stress-graded timber. As most timber exporters provide stress-graded timber, the required design information as well as the stress-graded timber can be made available to the structural engineers who can pass on the benefits of economy and performance to the user. Availability of stress-graded imported timber will also encourage the stress-grading of local timber in the near future. Hence a need exists for a Sri Lanka Standard on imported construction timber which provides information on selection of species, durability, treatability, timber grades, design stresses as well as guidelines on implementing and checking the grading process.

This part of the standard (Part 4) specifies the required documentation to be adopted during the grading process of imported construction timber. The other parts of this standard are as follows;

- Part 1 : Grading, marking, and guidance on usage;
- Part 2 : Nomenclature, identification, and general information; and
- Part 3 : Properties.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or observation, shall be rounded off in accordance with **CS 102**. The number of significant figures to be retained in the rounded off value shall be the same as that of the specified value in this standard.

The Sri Lanka Standards Institution gratefully acknowledges the use of the publications of the Malaysian Timber Industry Board, the British Standards Institution, the Bureau of Indian Standards, the American Society for Testing and Materials and the Standards Australia.

1 SCOPE

This part of Sri Lanka Standard specifies the documentation to be adopted during the grading process of imported construction timber for structural use. Visual stress grading is considered, while machine stress grading is excluded.

2 REFERENCES

- CS 102 - Presentation of numerical values
- SLS 1170 - Code of practice on imported construction timber
 - Part 1 : Grading, marking, and guidance on usage
 - Part 2 : Nomenclature, identification, and general information

3 DEFINITIONS

For the purpose of this part of the standard the definitions given in **SLS 1170 Part 1 : 1998** shall apply.

4 DOCUMENTATION

Maintaining important records during various stages of the grading process is an essential requirement of any timber grading process, and more so when visual stress grading is used.

Recommended formats of various important records that should be maintained during the grading process are given in this part of the standard as Appendices, whose details are as follows:-

- i) Grading certificate - Appendix A;
- ii) Grading mark - Appendix B;
- iii) Sample of standard form of contract - Appendix C;
- iv) Certificate of competency of Timber grader - Appendix D;
- v) Sample tally book page - Appendix E;
- vi) Grading summary - Appendix F;
- vii) Schedule of timber shipped - Appendix G; and
- viii) Check-grading certificate - Appendix H.

**APPENDIX A
GRADING CERTIFICATE**

Serial No.....

(Issued under the **SLS 1170 : Part 1 : 1998** for Grading, Marking, and Guidance on usage of Imported Construction Timber)

CERTIFIED that the sawn timber shown on the attached Schedule of Timber Shipped and summarised below, which is consigned to (name of consignee).....
.....
and to be shipped to (place and country of final destination).....
.....on the (vessel).....
sailing from (port).....on or about (date).....
has been graded by a certified Timber Grader in accordance with the **SLS 1170 : Part 1 : 1998** for Identification, Grading and Marking of Imported Construction Timber; that the timber is of the kinds and grades shown in the Summary below; and that the appropriate Grade and other marks shown in the attached Schedule of Timber Shipped have been placed on the timber.

SUMMARY

Kind of Timber
.....
Grades
Total number of pieces
Total volume = Cubic metres.....
Timber graded for (name of Buyer) Reg. Cert. No.
on (date) by certified Timber Grader Number
Timber grader's name.....

Date :

.....
Signature of Timber Grader and stamp of SLSI

IMPORTANT NOTES

(i) Volumes hown in this Grading Ceritficate have been taken from the Schedule of Timber Shipped, prepared by the Buyer and are not guaranteed by the SLSI (see 11.5 of SLS 1170 : Part 1 : 1998).

(ii) Timber is inspected and measured as the Timber Grader finds it, and certification of grades applies only for the date of inspection of the timber. Buyers are advised to request re-grading of the timber and the issue of a new Grading Certificate should the lapse of time or the method of treatment or storage of the timber between examination and shipment permit the possibility of degrade (see 11.5 of SLS 1170 : Part 1 : 1998).

APPENDIX B

GRADING MARK

Grade Mark: F I D SAMPLE

STANDARD NAME OF TIMBER : BAL/1

PRODUCE OF MALAYSIA	(50)	TS-713/0884	1/6/1996
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MARK OF ORIGIN	REGISTERED NO. OF TIMBER GRADER	SUPPLIER'S REGISTRATION CERTIFICATE NUMBER	PARCEL NUMBER
----------------------	---------------------------------------	---	------------------

NOTES

(i) *The order of marking in accordance with 10.1.3 and 10.1.4 of SLS 1170 : Part 1 : 1997 should be as shown below, reading from left to right facing the piece:-*

(1) *Grade Mark, (2) the Standard Name of the timber, (3) the Mark of Origin, (4) the Registered Number of the Timber Grader, (5) Supplier's Registration Certificate Number, (6) the Parcel Number; then should follow Buyer's own marks (such as Destination, Trade Mark, etc) if he wishes to add any.*

(ii) *The Registered Number of the Timber Grader should always be in a circle; no other number may be in a circle.*

- (iii) *The Parcel Number shown above denotes the first parcel to be graded in a particular sawmill for the month of June, 1996.*
- (iv) *The use of any of the Grade Marks listed in 10.1.1 of SLS 1170 : Part 1 : 1998 shall be restricted to timber graded by a Timber Grader or a Panel of Timber Graders, and covered by a Grading Certificate (Appendix A) or a Check-Grading Certificate (Appendix H).*
- (v) *For all stress graded timber, where sawn timber is 100 mm wide and over, every lettering or number should be 25 mm or 31 mm and for sawn timber less than 100 mm wide, it should be 19 mm but the number of the Timber Grader should always be in the full 37.5 mm figures.*
- (vi) *For all Strips (see 3.53 of SLS 1170 : Part 1 : 1998) and Shorts (see 3.48 of SLS 1170 : Part 1 : 1998), only the Supplier's Number and Timber Grader's Number are required to be stencilled on each piece of timber. The full stencil marks however shall be placed on two sides of each bundle (or parcel).*
- (vii) *Colour code appropriate to the structural grade shall be painted on one or both ends of a parcel.*

APPENDIX C

SAMPLE OF STANDARD FORM OF CONTRACT
(for timber to be imported)

.....
(hereinafter referred to as the seller) hereby agrees to sell
and.....(hereinafter referred to as the buyer) hereby agrees to
buy the timber described hereunder at the price and on the terms and conditions appearing
below:-

Contract No.....

Date :.....

1. **SELLER:**.....

CERTIFICATE NO:.....

2. **BUYER:**.....

CERTIFICATE NO:.....

3. **SPECIES:**.....

4. **QUANTITY:**.....

5. **DIMENSIONS:**.....

6. **GRADE:**.....

7. **SEASONING:**.....

8. **MARKING:**.....

Face:.....

End:.....

9. **PRICE:**.....

10. **PAYMENT:**.....

11. **DATE OF DELIVERY:**.....

12. **PLACE OF DELIVERY :**.....

- 13. Grading, sawing sizes, end-trimming and coating, and stacking and seasoning of the scheduled timber shall be in accordance with **SLS 1170 : Part 1 : 1998** for Identification, Grading and Marking of Imported Construction Timber.
- 14. After grading by the seller, the buyer shall request the SLSI to re-grade or check-grade the scheduled timber.

15. **OTHER TERMS AND CONDITIONS**

- a)
- b)
- c)

.....
Seller

.....
Buyer

APPENDIX D

CERTIFICATE OF COMPETENCY OF TIMBER GRADER

(Issued under the **SLS 1170 : Part 1 : 1998** for Grading, Marking and Guidance on usage of Imported Construction Timber, Clause 11.1.2 of **SLS 1170 : Part 1 : 1998**)

Certificate No.:.....

This is to certify that Mr/Ms. the holder of Identity Card No.who is employed by.....has been examined and found competent to grade sawn timber under the **SLS 1170 : Part 1 : 1998** for Grading, Marking, and Guidance for usage of Imported Construction Timber.

This certificate is valid only for SRI LANKA/MALAYSIA/AUSTRALIA/.....

.....
Director General of SLSI

Date of issue:.....

Date of first expiry.....

.....
Seal or Stamp of SLSI

Renewals and suspensions overleaf.

**APPENDIX E
SAMPLE TALLY BOOK PAGE**

Tally of timber graded at (Supplier).....Reg. Cert. No.....for Messrs.
 (Buyer).....Reg. Cert. No.....
 by (Timber Grader).....Reg. No.....Order No.....
 Date started.....finished.....

Kind of Timber MENGKULANG; Grade COMMON BUILDING; thickness 25 mm

Widths (mm)	75	100	125	150	175	200	225	250	275	300	Total No. of pieces
Lengths(mm)											
1800	Note:- (i) To save paper this form can be printed omitting lengths and widths which can be entered in manuscript as they occur										
2100											

Note :- (ii) Tallying should always be done in fives,
 thus ~~///~~ ~~///~~ ~~///~~ // (= 17 pieces)
 not thus ~~//////////~~ (= 17 pieces),

2400 Note:- (iii) Each dimension and column is totalled and the totals transferred to the Grading Summary, see Appendix F

2700											
3000				/	///	/		/		/	7
				(1)	(3)	(1)		(1)		(1)	
3300				//				/			3
				(2)				(1)			
3600				/	//				/	/	5
				(1)	(2)				(1)	(1)	
3900						//		/	/		4
						(2)		(1)	(1)		
4200				//		///		///	//		11
				(2)		(4)		(3)	(2)		
4500				//	/	///		//			9
				(2)	(1)	(4)		(2)			
4800				//	//	///		//		/	16
				(2)	(2)	///(9)		(2)		(1)	
5100						//					2
						(2)					
5400				//		///		/			7
				(2)		(4)		(1)			
5700											
6000				/	/	/		/			4
				(1)	(1)	(1)		(1)			
Leave blank for inserting longer lengths as they occur											
Total No. of pieces				13	9	27		12	4	3	68

Signed.....

Timber grader's Name and Reg. No.....

APPENDIX F
GRADING SUMMARY

[This Summary to be returned to the SLSI with the Schedule of Timber Shipped (**Appendix G**) when applying for a Grading Certificate].

SUMMARY of timber graded at (Supplier)..... Reg. Cert. No.....
on (dates).....for (Buyer)..... Reg. Cert. No.....
by (Timber Grader).....Reg. No.....against Contract No.....
Seasoning period.....days on stickers.

Face Marks

Cross section in mm (1)	Kind of timber, grade and number of pieces and length (mm) (This column should be as wide as possible) (2)	Total Pieces (3)	Total length in metres (4)	Cubic metres (5)
	<i>Note:- The figures in this form are compiled by the Timber Grader from the totals shown in the Tally Book, see Appendix E</i>			
25 THICK	MENKULANG - COMMON BUILDING			
150 x 25	1/3000, 2/3300, 1/3600, 2/4200, 2/4500, 2/4800, 2/5400, 1/6000	13	The figures in these columns will be computed by the Buyer not by the Timber Grader	
175 x 25	3/3000, 2/3600, 1/4500, 2/4800, 1/6000	9		
200 x 25	1/3000, 2/3900, 4/4200, 4/4500, 9/4800, 2/5100, 4/5400, 1/6000	27		
250 x 25	1/3000, 1/3300, 1/3900, 3/4200, 2/4500, 2/4800, 1/5400, 1/6000	12		
275 x 25	1/3600, 1/3900, 2/4200	4		
300 x 25	1/3000, 1/3600, 1/4800	3		
	Total	68		
	MENKULANG- STANDARD STRUCTURAL			
125 x 25 150 x 25 200 x 25 250 x 25 300 x 25	as above			
	Total			
	MENKULANG-SELECT STRUCTURAL			
100x 25 125x 25 150 x 25 200 x 25 250 x 25 300 x 25	as above			
	Total			

Contd...

	MENKULANG-SELECT STRUCTURAL		
50 THICK			
150 x 50			
175 x 50	as above		
200 x 50			
250 x 50			
300 x 50			
	Total		
	and so on, grouping together timber of one name and, within that name, group by thickness and grades		
	GRAND TOTAL		

Signed.....

Timber Grader's Name and Reg. No.....

APPENDIX G

SCHEDULE OF TIMBER SHIPPED

(This Schedule to be forwarded to the SLSI when applying for a Grading Certificate or Check-grading Certificate).

SCHEDULE of timber shipped by (Buyer).....
 Reg. Cert. No.....of (place).....per (vessel).....
 sailing from (port).....to (port of final destination).....
 on or about (date).....and consigned to (Name of consignee).....
at (country of final destination).....

Reference numbers.....

MARKINGS. All pieces/bundles are stencilled with the Registered Number(s) of the Timber Grader(s) as shown in the Summary attached; additional markings are also shown in that Summary.

Cross Section in mm (1)	Kind of timber, grade and number of pieces and length (this column should be as wide as possible) (2)	Total Pieces (3)	Total Length in metres (4)	Cubic metres (5)
25 THICK	Note :- <i>The figures in this form are compiled by the Buyer from those shown in the Grading Summary, see Appendix G</i> MENGKULANG-COMMON BUILDING			
150 x 25	1/3000, 2/3300, 1/3600, 2/4200, 2/4500, 2/4800, 2/5400, 1/6000	13	57.0	0.214
175 x 25	3/3000, 2/3600, 1/4500, 2/4800, 1/6000	9	36.3	0.159
200 x 25	1/3000, 2/3900, 4/4200, 4/4500, 9/4800, 2/5100, 4/5400, 1/6000	27	126.6	0.633
250 x 25	1/3000, 1/3300, 1/3900, 3/4200, 2/4500, 2/4800, 1/5400, 1/6000	12	52.8	0.330
275 x 25	1/3600, 1/3900, 2/4200	4	15.9	0.109
300 x 25	1/3000, 1/3600, 1/4800	3	11.4	0.086
	TOTAL	68	300.0	1.531
	and so on as shown in Appendix F			
	GRAND TOTAL			

A final SUMMARY should be attached , or put at the bottom of the Schedule, in the following form:-

SUMMARY

Kind of Timber and Thickness (mm)	Common Building (m ³)	Select structural (m ³)	Standard structural (m ³)	Total Volume Cubic metres
Mengkulang 25 mm	1.531	1.728	2.025	--
Mengkulang 50 mm	etc.	etc.	etc.	--
Mengkulang 75 mm	--	--	--	--
Total				
Other timbers			as above	
GRAND TOTAL				

Total pieces =Total volume = cubic metres. The registered Number(s) of the Timber Grader(s) who graded this timber is/are.....

MARKINGS:- Here insert what marks have been placed on the timber, as follows:-

Appropriate Grade Mark as shown in **Appendix B**

The Standard Name of the Timber, see **SLS 1170 : Part 2 : 1998**

The Mark of Origin PRODUCE OF MALAYSIA/AUSTRALIA/.....

Timber Grader's Registration Number

Supplier's Registration Certificate Number

Parcel Number

Buyer's own Marks:- Face

End

.....
Signature and Name of Buyer

APPENDIX H
CHECK-GRADING CERTIFICATE

(Issued under **SLS 1170 : Part 1 : 1998** for Grading, Marking, and Guidance on usage of Imported Construction Timber)

Serial No.....

CERTIFIED that a proportion of the timber shown on the attached Schedule of Timber Shipped and summarised below, which is consigned to (name of consignee).....
.....
and to be shipped to (port and country of final destination).....
.....on the (vessel)
sailing from (port).....on or about (date).....
has been check - graded by a Panel of Timber Graders; that the pieces inspected were
.....
and that the other pieces appeared likewise to.....
.....

SUMMARY

Kind of Timber.....
Total number of pieces.....
Total volume =.....cubic metres =
Timber inspected for (name of Buyer).....Reg. Cert. No.....
on (date).....by Timber Graders (and Reg. Nos.).....

.....
.....
.....

Signature of Timber Graders (and their Reg. Nos.) in the Panel

.....
Stamp of Sri Lanka Standards Institution

Date.....

IMPORTANT NOTE

Number of pieces and volumes shown in this check-grading certificate have been taken from the Schedule of Timber Shipped prepared by the Buyer and are not guaranteed by the SLSI (see 11.5 of SLS 1170 Part 1 : 1998).

SLS CERTIFICATION MARK

The Sri Lanka Standards Institution is the owner of the registered certification mark shown below. Beneath the mark, the number of the Sri Lanka Standard relevant to the product is indicated. This mark may be used only by those who have obtained permits under the SLS certification marks scheme. The presence of this mark on or in relation to a product conveys the assurance that they have been produced to comply with the requirements of the relevant Sri Lanka Standard under a well designed system of quality control inspection and testing operated by the manufacturer and supervised by the SLSI which includes surveillance inspection of the factory, testing of both factory and market samples.

Further particulars of the terms and conditions of the permit may be obtained from the Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.



SRI LANKA STANDARDS INSTITUTION

The Sri Lanka Standards Institution (SLSI) is the National Standards Organization of Sri Lanka established under the Sri Lanka Standards Institution Act No. 6 of 1984 which repealed and replaced the Bureau of Ceylon Standards Act No. 38 of 1964. The Institution functions under the Ministry of Science & Technology.

The principal objects of the Institution as set out in the Act are to prepare standards and promote their adoption, to provide facilities for examination and testing of products, to operate a Certification Marks Scheme, to certify the quality of products meant for local consumption or exports and to promote standardization and quality control by educational, consultancy and research activity.

The Institution is financed by Government grants, and by the income from the sale of its publications and other services offered for Industry and Business Sector. Financial and administrative control is vested in a Council appointed in accordance with the provisions of the Act.

The development and formulation of National Standards is carried out by Technical Experts and representatives of other interest groups, assisted by the permanent officers of the Institution. These Technical Committees are appointed under the purview of the Sectoral Committees which in turn are appointed by the Council. The Sectoral Committees give the final Technical approval for the Draft National Standards prior to the approval by the Council of the SLSI.

All members of the Technical and Sectoral Committees render their services in an honorary capacity. In this process the Institution endeavours to ensure adequate representation of all view points.

In the International field the Institution represents Sri Lanka in the International Organization for Standardization (ISO), and participates in such fields of standardization as are of special interest to Sri Lanka.