

Round and sawn timber — Permitted deviations and preferred sizes

Part 1: Softwood sawn timber

ICS 79.040

National foreword

This British Standard is the UK implementation of EN 1313-1:2010. It supersedes BS EN 1313-1:1997 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/543, Round and sawn timber.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Foreword

This document (EN 1313-1:2010) has been prepared by Technical Committee CEN/TC 175 "Round and sawn timber", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2010, and conflicting national standards shall be withdrawn at the latest by July 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1313-1:1997.

This standard is one of a series concerning sawn timber.

Compared to EN 1313-1:1997, the following modifications have been made:

- a) Amendment A1:1999 has been incorporated;
- b) A new Table 2 giving target cross-sectional sized based on metric measure has been added and tables given in Annex A have been modified accordingly;
- c) In Annex A: Table A.5 "Complementary preferred sizes in France" has been completed and the concept of preferred size for green timber introduced (the fibre saturation point is assumed to be 28 %), Table A.10 "Complementary preferred sizes in Norway" has been completed and Table A.12 "Complementary preferred sizes in Poland" has been added.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies permitted deviations for thickness and width at reference moisture content and adjustments for changes in size due to changes in moisture content. Preferred sizes for thicknesses of 38 mm and over are also specified.

This standard applies to softwood sawn timber.

An informative annex gives complementary national sizes.

NOTE A.5 includes for France the concept of preferred size for green timber.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 844-1:1995, *Round and sawn timber — Terminology — Part 1: General terms common to round timber and sawn timber.*

EN 844-3:1995, *Round and sawn timber — Terminology — Part 3: General terms relating to sawn timber*

EN 844-4:1997, *Round and sawn timber — Terminology — Part 4: Terms relating to moisture content*

EN 844-6:1997, *Round and sawn timber — Terminology — Part 6: Terms relating to dimensions of sawn timber*

EN 1309-1, *Round and sawn timber — Method of measurement of dimensions — Part 1: Sawn timber*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 844-1:1995, EN 844-3:1995, EN 844-4:1997 and EN 844-6:1997 apply.

4 Reference moisture content

The reference moisture content is 20 %. The target sizes in Clause 7 are applied at this moisture content.

5 Change in size due to changes in moisture content

Unless there is evidence to the contrary, it shall be assumed that the thickness and width of a piece of timber will increase by 0,25 % every 1 % of moisture content higher than 20 % up to fibre saturation point, and decrease by up to 0,25 % every 1 % of moisture content lower than 20 %. The above values are independent of the species.

6 Permitted deviations

The average thickness and the average width shall not be less than the target sizes.

Permitted deviations of cross-sectional sizes at 20 % moisture content are as follows:

- For thickness and width ≤ 100 mm: + 3 mm / - 1 mm;
- For thickness and width > 100 mm: + 4 mm / - 2 mm.

For length: no minus tolerance, plus tolerance agreed by contract.

7 Common traditional target cross-sectional sizes

Sizes shall be measured according to EN 1309-1.

Common traditional target cross-sectional sizes of softwood sawn timber with thickness of 38 mm and over:

- either based on imperial measure, see Table 1; or
- based on metric measure, see Table 2.

Table 1 — Common target cross-sectional sizes based on imperial measure

Thickness mm	Width mm								
	75	100	125	150	175	200	225	250	300
38		X	X	X					
50		X	X	X	X	X	X		
63		X	X	X	X				
75				X	X	X	X		
100						X			

X: Preferred size.

Table 2 — Common target cross-sectional sizes based on metric measure

Thickness mm	Width mm									
	80	100	120	140	160	180	200	220	240	260
50	X	X	X	X	X	X	X	X		
60		X	X	X	X	X				
80	X	X	X	X	X	X	X			
100	X	X	X	X	X		X			
120	X	X	X		X	X	X			
140	X	X		X		X				
160	X	X	X		X		X			

X: Preferred size.

Annex A (informative)

Complementary national sizes

A.1 Complementary preferred sizes in Austria (AT)

Table A.1 — Complementary preferred target cross-sectional sizes in Austria

Thickness mm	Width mm									
	80	100	120	140	160	180	200	220	240	260
50									X	X
60										
80										
100									X	
120									X	
140										
160									X	

X: Complementary preferred size.

A.2 Complementary preferred sizes in Switzerland (CH)

Table A.2 — Complementary preferred target cross-sectional sizes in Switzerland

Thickness mm	Width mm								
	100	120	140	160	180	200	220	240	260
80									
100					X		X		
120							X	X	
140							X	X	X
160									X

X: Complementary preferred size.

A.3 Complementary preferred sizes in Germany (DE)

Table A.3 — Complementary preferred target cross-sectional sizes in Germany

Thickness mm	Width mm										
	60	80	100	120	140	160	180	200	220	240	260
40	X										
50											
60		X						X		X	
80										X	
100											
120										X	
140											
160										X	X

X: Complementary preferred size.

A.4 Complementary preferred sizes in Finland (FI)

Table A.4 — Complementary preferred target cross-sectional sizes in Finland

Thickness mm	Width mm					
	100	125	150	175	200	225
38				X		
44	X	X	X			
50						
63					X	X

X: Complementary preferred size.

A.5 Complementary preferred sizes in France (Fr)

Table A.5 includes preferred sizes for green timber¹⁾.

Table A.5 — Complementary preferred target cross-sectional sizes in France

Thickness mm	Width mm																			
	61	63	73	75	98	100	112	115	122	125	146	150	156	160	171	175	195	200	219	225
37	XX		XX				XX								XX		XX		XX	
38		X		X				X								X		X		X
49							XX						XX							
50								X						X						
61			XX										XX							
63				X										X						
73					XX															
75						X														
98							XX								XX					
100								X								X				
112							XX													
115								X												
122									XX		XX									
125										X		X								
146												XX								
150													X							
195																	XX			
200																		X		
219																			XX	
225																				X

X: Complementary preferred size for green timber.

XX: Complementary preferred size at 20 % moisture content.

1) The fibre saturation point is assumed to be 28 %.

A.6 Complementary preferred sizes in United Kingdom (GB)

Table A.6 — Complementary preferred target cross-sectional sizes in United Kingdom

Thickness mm	Width mm											
	75	100	115	125	138	150	175	200	225	250	275	300
38	X		X		X		X	X	X	X	X	X
47	X	X		X		X	X	X	X	X		X
50	X									X		X
63								X	X			
75		X		X						X	X	X
100						X			X	X	X	X
150						X		X				X
250										X		
300												X

X: Complementary preferred size.

A.7 Complementary preferred sizes in Ireland (IR)

Table A.7 — Complementary preferred target cross-sectional sizes in Ireland

Thickness mm	Width mm										
	75	100	115	125	150	175	200	225	250	275	
35	X	X	X	X	X	X	X	X		X	
44	X	X	X	X	X	X	X	X			
50	X										
63	X						X	X			
75		X		X						X	

X: Complementary preferred size.

A.8 Complementary preferred sizes in Italy (IT)

Table A.8 — Complementary preferred target cross-sectional sizes in Italy

Thickness mm	Width mm							
	75	90	100	125	150	175	200	225
38						X	X	
50								
58					X	X	X	X
63	X	X					X	X
75		X		X				

X: Complementary preferred size.

A.9 Complementary preferred sizes in the Netherlands (NL)

Table A.9 — Complementary preferred target cross-sectional sizes in the Netherlands

Thickness mm	Width mm											
	50	63	75	100	125	150	160	175	200	225	250	275
38	X							X	X	X		X
44			X	X	X	X		X				
50	X	X	X									
63			X				X		X	X	X	X
75			X	X	X						X	X
95				X	X	X						
100					X	X				X	X	

X: Complementary preferred size.

A.10 Complementary preferred sizes in Norway (NO)

Table A.10 — Complementary preferred target cross-sectional sizes in the Norway

Thickness mm	Width mm						
	100	115	125	150	175	200	225
32	X		X				
38		X			X	X	X
44	X		X	X	X		
50							
63	X					X	

X: Complementary preferred size.

A.11 Complementary preferred sizes in Sweden (SE)

Table A.11 — Complementary preferred target cross-sectional sizes in Sweden

Thickness mm	Width mm									
	75	100	125	150	175	200	225	250	275	300
38	X				X	X	X	X		
44	X	X	X	X	X	X	X	X		
47	X	X	X	X	X	X	X	X		
50	X							X		
63	X					X	X	X		
75	X	X	X					X		
100				X	X		X	X		

X: Complementary preferred size.

A.12 Complementary preferred sizes in Poland (PL)

Table A.12 — Complementary preferred target cross-sectional sizes in Poland

Thickness mm	Width mm												
	50	63	75	100	125	140	150	160	175	200	225	250	275
38		X											
45	X												
50			X	X									
63					X	X							
75					X	X	X						
100													
150					X	X	X	X	X				
250										X	X	X	X

X: Complementary preferred size.

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