



European Steel Tube Association  
Association Européenne du Tube d'Acier



WELDED CARBON & ALLOY STEEL TUBE

With the support of



(European Committee for Standardization)

## The Requirement

### ONE MARKET - ONE STANDARD

- A common and unified market ensuring Fair Trade shall be free of technical barriers.
- This concept gives impetus to implement European Standards (EN).

## The Basis

### EUROPEAN STANDARDS AND EUROPEAN DIRECTIVES

- European Standards for tubes cover various applications :
  - Mechanical
  - Structural
  - Piping and Pressure
  - Gas Pipe Line
  - General
- Two applications are directly concerned by European Directives:
  - Piping and Pressure: Pressure Equipment Directive (PED).
  - Structural: Construction Products Directive (CPD).
- The related EN give presumption of conformity to the requirements of these Directives.
- For PED tubes are "components" to which "CE" marking does not apply.
- For CPD tubes and hollow sections are "finished products" to which "CE" marking applies.

## The Way

### MAKING EUROPEAN STANDARDS

- The European Commission has mandated CEN (European Committee for Standardization) to produce European Standards.
- Committees composed of technical experts have developed and will maintain these standards.
- EN represent the accumulated experience of use of former national standards.
- EN replace the corresponding national standards.

	(Expected) Issued
EN 10296-1 - Mechanical and General Engineering	(2003 2 <sup>o</sup> Quarter)
EN 10305-2 - Precision - Cold Drawn	2002
EN 10305-3 - Precision - Cold Sized	2002
EN 10305-5 - Precision - Square and Rectangular	(2003 2 <sup>o</sup> Quarter)
EN 10305-6 - Hydraulic and Pneumatic Power Systems	(2003 4 <sup>o</sup> Quarter)
EN 39: Scaffold Structures	2001
EN 10210-1: Hot finished Hollow Sections - Delivery Requirements	1994 Note: Under revision
EN 10210-2: Hot finished Hollow Sections - Dimensions	1997 Note: Under revision
EN 10219-1: Cold Formed Hollow Sections - Delivery Requirements	1997 Note: Under revision
EN 10219-2: Cold Formed Hollow Sections - Dimensions	1997 Note: Under revision
EN 10225: Offshore Structures	2001
EN 10217-1: Room Temperature	2002
EN 10217-2: EW - Elevated Temperature	2002
EN 10217-3: Fine Grain	2002
EN 10217-4: EW - Low Temperature	2002
EN 10217-5: SAW - Elevated Temperature	2002
EN 10217-6: SAW - Low Temperature	2002
EN 10208-1 class A: Gas Transportation	1998
EN 10208-2 class B: Gas Transportation	1996
EN 10224: Conveyance (Aqueous liquids)	2002
EN 10255: Service Pipe and House Installation	(2003 4 <sup>o</sup> Quarter)

Note: (p) The national standard is replaced by several

**REPLACED NATIONAL STANDARDS**

BS	DIN	NF	UNE	UNI	SIS	Corresponding European Directive	Personal Notes
<b>Mechanical Purposes</b>							
6323-1 (p) 6323-2 6323-5 (p) 6323-7	1626 (p) 1628 (p)	A 49-341 A 49-343	-	8913	141312-04 141232-04 141412-04		
6323-6	2393	-	36593	7946	SMS1895		
6323-5 (p)	2394	XP A 49-646 (p)	36594	7947	SMS1895		
6323-5 (p)	2395	XP A 49-646 (p)	36595	-	SMS 2353		
-	-	-	-	-	SMS 2353		
<b>Structural Purposes</b>							
1139 Section 1.1	4427	-	-	7288 (p)			
4360 (p)	17120 (p) 17121 17123 (p) 17124 17125 (p)	A 49-501 (p)	-	7806:79	141312-03 141312-04 141412-03 141412-04 142172-03 142172-04 142132-03 142132-04 142134-03 142134-04	CPD (CE marking will only apply to next edition)	
4848-2	59410	A 49-501 (p)	-	7807:83 7808:83 7809:83	212820 212830	CPD	
6363 (p)	17119 17120 (p) 17123 (p) 17125 (p)	A 49-541 (p)	36537	7810	141312-03 141412-04 142172-04 142132-04 142134-04	CPD (CE marking will only apply to next edition)	
6363 (p)	59411	A 49-541 (p)	36537	7811 7812 7813	212825 212835	CPD	
7191	-	-	-	-	-		
<b>Piping &amp; Pressure Purposes</b>							
3059-1 (p) 3601 (p)	1626 (p) 1628 (p)	A 49-141 A 49-142 A 49-146	-	-	141232-06 141330-06 141434-06 141435-06	PED	
3602-1 (p) 3604-1 (p)	17177	A 49-241 A 49-242 A 49-243 A 49-245 A 49-252 (p) A 49-253 (p)	-	-	141330-06 141330-15 141434-05 141435-05	PED	
3603 (p)	17178 (p)	-	-	-	-	PED	
3603 (p)	17174 (p)	A 49-240	-	-	-	PED	
3602-2 3604-2	-	A 49-252 (p) A 49-253 (p)	-	-	-	PED	
3603 (p)	-	-	-	-	-	PED	
<b>Gas Pipe Line</b>							
3601 (p)	1626 (p) 1629 (p)	A 49-400 (p) A 49-401 (p) A 49-402 (p)	-	8488	-		
3601 (p)	17172	A 49-400 (p) A 49-401 (p) A 49-402 (p)	-	-	-		
<b>General Purposes</b>							
3601 (p) 534 (p)	1626 (p) 1629 (p)	A 49-150 A 49-250	-	6363	-	CPD	
1387 (p)	2440 2441	A 49-145	19040 19041	8863	SMS 326	CPD	

## The Benefit

### ADVANTAGES OF EN

- EN provide a unique technical reference for manufacturers, distributors, users and regulators. Valid in all EU and EFTA countries.
- Reduction of the number of standards.
- Compliance with EU Directives through dedicated standards.
- Clear definition of products.
- Better product availability.
- More safety as product requalification (change of field of application) is not permitted.
- Easy comparison with corresponding American or Japanese standards/products.

## Implementation

### MAKE USE OF EN

- Tube manufacturers, distributors, users and regulators have been all involved in developing the new standards: now comes the time for their implementation.
- From now on, you may switch to available EN when enquiring or ordering your next welded tube requirements.
- Tube manufacturers have detailed information available concerning the correlation between the old and the new standards.
- Should you require any further information please telephone, fax or e-mail to the address or numbers below.



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