European Arc Welding Symbols

Based on BS EN 22553 Welded brazed and soldered joints — Symbolic representation on drawings

BS 499-2c:1999



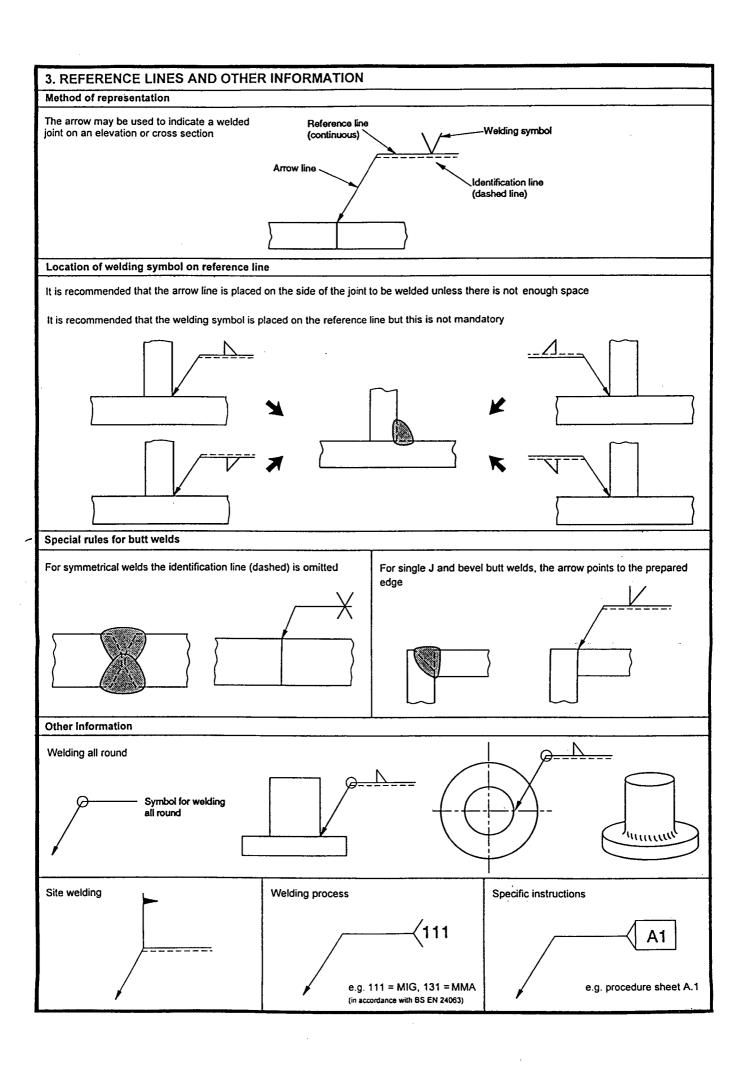
British Standards Institution

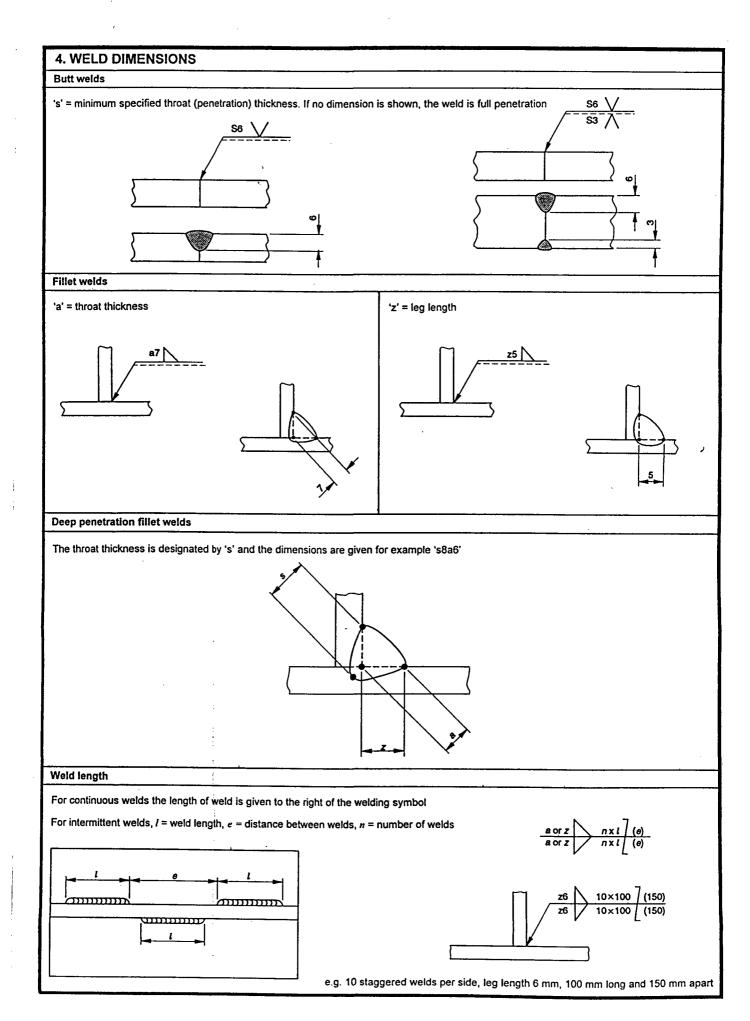
BSI House 389 Chiswick High Street London W4 4AL

Telephone 020 8996 9000 Fax 020 8996 7400

1. ELEMENTARY SYMBOLS						
Type of weld	Illustration	Symbol				
Butt weld between plate with raised edges which are melted down complétely		八				
Square but weld						
Single-V butt weld		\bigvee_{i}				
Single-bevel butt weld		V				
Single-U butt weld		Y				
Single-J butt weld		٢				
Backing run		0				
Double-V butt weld						
		X				
Double-bevel butt weld						
		K				
Double-U butt weld						
		X				
Fillet weld						
Plug weld (plug or slot weld — US.	A) []					
Surfacing		\sim				

2. SUPPLEMENTARY SYMBOLS	
Shape of weld surface or weld Supplen	nentary symbol
Flat (usually finished flush by grinding or machining)	
Convex	
Concave	
Toes shall be blended smoothly — may require dressing	J
Permanent backing strip used	М
Removable backing strip used	MR
Examples of the use of supplementary symbols	
Designation Illustration	Symbol
Flat (flush) single-V butt weld with permanent backing strip	<u></u>
Flat (flush) single-V butt weld with flat (flush) backing run	$\overline{\geq}$
Convex double-V weld	\bigotimes
Concave fillet weld	7
Fillet weld with toes smoothly blended	K





Description	Illustration		Symbol	Description	Illustration	Symbol
Single V-butt weld		/= <u>Y</u> _		Single V-butt weld with permanent backing strip		/
Single V-butt weld with backing run		<u>√</u>		Single bevel T-butt weld with reinforcing fillets		\\ \frac{\range V}{\range -\range -\range} \\ \frac{\range V}{\range -\range -
Description	Illustration		Symbol	Description	Illustration	Symbol
Double bevel T-butt weld with reinforcing fillets		A A	A X P	Cruciform joint fillet welded on three sides		
				Cruciform joint		

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