					Specification for	Standard Siz		
	E	N 10219-I : :	2006 & EN 102	219-II : 2019	- Cold-Formed Weld			
A - Cold-Forme								
Designation		Outside Diameter (mm) - Range & Tolerance						
CF-CI	HS	13.50 (1/	/4'') -To-323.9	0 (12'') MM 8	& 1 % of Size (OD)			
D. Cold Forms	d Carrage /D		Jallan Castia	a Tubaa / Cad	ation Tubes			
B - Cold Forme Designa	-		10110W Section (IM)-Range & T		Width (MM)-R	ange & Tolera		
		<del></del>	0-SHS & ±1% c		20x20-SHS & ±1% of Side			
CF-SI	<b>4S</b>	200x200-SHS & ±1% of Side			200x200-SHS & ±1% of Side			
CE DI	ıc	40x20	O-RHS & ±1% c	of Side	40x20-RHS & ±1% of Side			
CF-RI	HS	200x10	00-RHS & ±1%	of Side	200x100-RHS & ±1% of Sid			
	<u> </u>		Machuical Dr		al and Mechnical Pro	operties as pe		
		Yield	Mechnical Pr Tensile S					
Steel Name	Steel	Strength	MPa (	-	Elongation %	C % Max.		
	Number	MPa (Min)	Thick<3 mm	Thick>3mm	(Min)			
S235JRH	1.0039	235	360-510	360-510	24	0.170		
S275J0H	1.0149	275	430-580	410-560	20	0.200		
S355J0H	1.0547	355	510-680	470-630	20	0.220		
1. Length				-0/	+50 MM or Mutual A	Agreement bet		
2. Out-of-Rour	ndness		± 2 % for hollo	w sections h	aving diameter to th	ckness ratio n		
CHS						and the pu		
3. Concavity/ SHS &	-				Maximum 0	.8 % or 0.5 mn		
4. Suareness of Sides		90 degree ± 1						
SHS & RH	3							
5.External Corner Profile SHS & RHS		1.60t-To-2.40t , Where						
6. Twist SHS & RHS					2	2 mm + 0.5 mn		
7 Churcheler			CHS					
7. Straightness		SHS & RHS						

8. Mass(m) per unit length (CHS,SHS,RHS)		± 6 % on individual delivered length					
		M = 0	.785xA,	Where A	$= \underline{\pi(D^2 - d^2)}$	Where:	
9. Ends		<u> </u>			$4x 10^{2}$		
	Plain end, C						
		•	ictaulic Specifi				
	inread end	ı - as per BSF	(British Stand	iard Pipej- In	read is 55 degree		
10. Flattening	Гest						
for above NPS	2'' - Welded	l tubes shall	be flattened v	ith the weld	placed alternately a	t 0 deg. or 90	
to the directior	of the the	force .					
	•				t no cracks apperan		
			up to 60 % of	original tube	OD result no cracks	appearance i	
metal other tha	an in the we	eld portion					
11. Leack Tight	ness Test						
a Online NDT		ent) or					
b Hydro Testi	• •	•	nd holding tim	e Minimum 5	Second		
,,			8				
12 . Bend Test							
Bend Test is ap	plicable for	Specified Di	ameter (D) fro	m 17.20 to 6	0.30 mm through co	rresponding	
D	17.2	21.3	26.9	33.7	42.4	48.3	
Bending Radius	50	65	85	100	150	170	
13. Surface Pro	tcetion						
Bare Black Tub	e (Uncoated	d)					
HDG - Galvaniz	ed As per Ei	N ISO 1461 a	and EN 10240	A1,A2,A3 & E	31,B2,B3 Quality		
Oil-Based Paint	ed Tubes (C	OBPT)					
Water-Base Pa			<u> </u>				
Water-Base Pa	inted Tube -	- Non Acid R	emoval (WBP1	NR)			
14.Packing							
Hexagonal Type	e or Custom	er Reguirme	ents				
,,							
15. Colour Coa	ding						
					For Light -	Brown	
					I OI LIZIIL -		
					For Mediur For Heavy	n - Blue	
					For Mediur	m - Blue	

We can issue a MTC, Certifying that the tubes supplied comply with this standard-EN 10219-I : 2006 Documents as Per EN 10204 : 2004 ,Type 3.1

<u>es</u>					
Hollow S	ections o	f Non-Al	loy Steel	s Tubes	
Wa	all Thickn	ess (mm	) - Range	& Tolera	ance
1.80	-To-10.00	MM & :	± 10 % of	Wall Thi	ckness
	Г				
nce					nge & Tolerance
_	-				% of Wall Thickness
9					% of Wall Thickness
					% of Wall Thickness
2	1.50	IVIIVI - I C	)-8.00 IVII	N & ±10	% of Wall Thickness
r EN 102:	10				
I LIV 102.		mical Co	mpositio	on %	
Si	Mn	P %	S %	N %	Carban Fauitralant
_		_			Carbon Equivalent
Max	%	Max	Max	Max	(CEV) % - (Max.)
••••	1.400	0.040	0.040	0.009	0.350
	1.500	0.035	0.035	0.009	0.400
0.550	1.600	0.035	0.035	0.009	0.450
ween Ma	anufactur	er and P	urchaser		
-+	d:		ما الممام م	k	A DNA
	aing 100,	otnerwis	se snan b	e agree t	oetween APM
rchaser					
n , which	ever is gr	eter			
1 degree					
1 degree					
T is Wall	Thicknes	S			
n/M leng	th				
0.20 % 0	f total ler	ngth			
	f total ler	_			

=D, Outside Diameter								
d 'Inside Diameter								
deg.								
rtion the								
60.3 220								

, EN 10219-II : 2019 & Inspection	