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DECLARATION OF PERFORMANCE

According to Regulation EU No 305/2011

Unique identification code of the product-type	Cold formed welded structural hollow sections of non-alloy and fine grained steels Round Hollow Section, according to EN 10219-1:2006		
Identification	Shape of cross-sections	Dimensions	Steel designation
	Circular hollow sections -CFCHS	From $\varnothing 10$ mm up to $\varnothing 168,3$ mm Thickness: from 0.7 mm up to 8 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H
	Square hollow sections-CFRHS	From 10x10 mm up to 130x130 mm Thickness: from 0.7 mm up to 8 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H
	Rectangular hollow sections-CFRHS	From 20x10 mm up to 120x140 mm Thickness: 0.7 mm up to 8 mm	S235JRH, S275J0H, S275J2H, S355J0H S355J2H
Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification	In metal structures or in metal and concrete mixed structures		
Manufacturer	NOKSEL ÇELİK BORU SANAYİ A.Ş Head Office: Çetin Emeç Bulvarı, 1065. Cadde No:10 06460 Öveçler- ANKARA / TURKEY Factory: TEM Bağlantı Yolu 2. km. P.K.70 54300 Hendek – SAKARYA / TURKEY		
System or systems of assessment and verification of constancy of performance of the construction product	System 2+		
Name and ID number of the notified Body	SZUTEST TEKNİK KONTROL VE BELGELENDİRME HİZMETLERİ TİC. LTD.ŞTİ. No. 2195,		
Declared performance			
Essential features	Performance	Harmonized technical specifications	
Dimensional and shape tolerances	As per Table 1	EN 10219 - 2 : 2006	
Elongation	As per Table 2	EN 10219 - 1 : 2006	
Yield and tensile resistance strength			
Impact strength			
Weldability	As per Table 2		
Durability	NPD		



Table 1- Dimensional and shape tolerances		
	Circular hollow sections	Square hollow sections Rectangular hollow section
Outside dimensions	$\pm 1\%$ with a minimum of $\pm 0,5$ mm and a maximum of ± 10 mm	H, B < 100 $\pm 1\%$ with a minimum of $\pm 0,5$ mm $100 \leq H, B \leq 200$ $\pm 0,8\%$ H, B > 200 $\pm 0,6\%$
Thickness	T ≤ 5 mm $\pm 10\%$ T > 5 mm $\pm 0,5$ mm	T ≤ 5 mm $\pm 10\%$ T > 5 mm $\pm 0,5$ mm
Out of roundness	2 % for hollow sections having a diameter to thickness ratio not exceeding 100	-
Concavity/Convexity	-	Max. 0,8 % with a minimum of 0,5 mm
Squareness of side	-	$90^\circ \pm 1^\circ$
External corner profile	-	T ≤ 6 1,6T to 2,4T 6 < T ≤ 10 2,0T to 3,0T 10 < T 2,4T to 3,6T
Twist	-	2 mm plus 0,5 mm/m length
Straightness	0,20 % of total length and 3 mm over any 1 m length	0,15 % of total length and 3 mm over any 1 m length
Mass	$\pm 6\%$ on individual delivered lengths	
Tolerances on length	< 6 000 $^{+5}_0$ mm 6 000 $\leq L \leq 10$ 000 $^{+15}_0$ mm > 10 000 $^{+5}_0$ mm + 1 mm / m	

Table 2- Mechanical Properties				
Essential features	Performance			
Elongation	Steel grades	Minimal elongation (A)		
	S235JRH	24%		
	S275J0H	20%		
	S355J2H	20%		
Yield and tensile resistance strength	Steel grades	Minimal yield strength (ReH)	Tensile resistance strength (Rm)	
		Thickness ≤ 16 mm	Thickness < 3 mm	Thickness ≥ 3 mm
	S235JRH	235 Mpa	360 - 510 Mpa	360 - 510 Mpa
	S275J0H	275 Mpa	430 - 580 Mpa	410 - 560 Mpa
	S355J2H	355 Mpa	510 - 680 Mpa	470 - 360 Mpa
Impact strength	Steel grades	Minimum energy upon impact KV for (standart samples 10 mm)		
		Test temperature		
		-20° C	0° C	20° C
	S235JRH	-	-	27 J
	S275J0H	-	27 J	-
	S355J2H	27 J		
	Impact test are not required for specified thicknesses < 6 mm			
Impact test characteristic for reduced samples, see article 6.7.2 of EN 10219 -1 : 2006				



TABLE 3-Maximum carbon equivalent value (CEV) based on castanalysis		
Steel grades		Maximum CEV for nominal thicknesses ≤ 40 mm %
Steel name	Steel Number	
S235JRH	1.0039	0,35
S275J0H	1.0149	0,40
S275J2H	1.0138	0,40
S355J0H	1.0547	0,45
S355J2H	1.0576	0,45

Signed for and on behalf of the manufacturer by:

S. Suat TUNÇ

QUALITY MANAGER

NOKSEL ÇELİK BORU SANAYİ A.Ş.

15.07.13