DECLARATION OF PERORMANCE

According to Regulation EU No 305/2011

NO: **F - 326**

Unique identification code of the product-type	Cold formed welded structural steel hollow sections according to EN 10219-1:2006		
Identification	**Shape of cross-sections**	**Dimensions**	**Steel designation**
	Rectangular Hollow Sections	B X H = from15 X 10 up to 140 X 120 mm wall thickness from 2,00 up to 6,00 mm	S235JRH S275JOH S275J2H, S355JOH S355J2H S355K2H
	Square Hollow Sections	BXB = from 10 X 10 up to 130 X 130 mm wall thickness from 2,00 up to 6,00 mm	
	Circular Hollow Sections	Outside Diameter from Ø=10,0 up to Ø 168,3 mm wall thickness from 2,00 up to 6,00 mm	
Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification	Construction , Furniture , Automotive , White Goods		
Manufacturer	ÇINAR BORU PROFİL SAN. VE TİC. A.Ş. İstanbul Yolu Cad. Demir Çelik İş Hani Kat:2/203 EREĞLİ/ZONGULDAK –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	Harmonizedtechnical 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	As per Table 2	

Table 1- Dimensional and shape tolerances			
	Circular hollow sections	Square hollow sections	Rectangular hollow section
Outside dimensions	Ø 10 up to Ø 168,3	10 x 10 up to 130 x 130	15 x 10 up to 140 x 120
Thickness	0,60 up to 6,30	0,60 up to 6,30	0,60 up to 6,30
Out of roundness	2 % for hollow section having a diameter to thickness ratio not exceeding 100	-	-
Concavity/Convexity	-	Max. 0,8 % wiht a minimum of 0,5 mm	Max. 0,8 % wiht a minimum of 0,5 mm
Squareness of side	-	90° ± 1°	90° ± 1°
External corner profile	-	T ≤ 6 1,6T to 2,4T	T ≤ 6 1,6T to 2,4T
Twist	-	2 mm plus 0,5 mm/m length	2 mm plus 0,5 mm/m length
Straightness	0,20 % of total lenght and 3 mm over any 1 m length	0,15 % of total lenght and 3 mm over any 1 m length	0,15 % of total lenght and 3 mm over any 1 m length
Mass	± 6 % on individual delivered length	± 6 % on individual delivered length	± 6 % on individual delivered length
Tolerances on length	0 / + 50 mm	0 / + 50 mm	0 / + 50 mm

Table 2- Mechanical Properties				
Essential features	**Performance**			
Elongation	Steel grades	Minimal elognation (A)		
		0,60 – 6,30 mm		
	S235JRH	24 %		
	S275JOH	20 %		
	S275J2H	20 %		
	S355JOH	20 %		
	S355J2H	20 %		
	S355K2H	20 %		
Yield and tensile strength	Steel grades	Minimal yield strength R_{eH} (MPa)	Tensile strength Rm (MPa)	
		0,60 – 6,30 mm	0,60–3,00mm	≥ 3,00 -6,30 mm
	S235JRH	235 Mpa	360-510 Mpa	360-510 Mpa
	S275JOH	275 Mpa	430-580 Mpa	410-560 Mpa
	S275J2H	275 Mpa	430-580 Mpa	410-560 Mpa
	S355JOH	355 Mpa	510-680 Mpa	470-630 Mpa
	S355J2H	355 Mpa	510-680 Mpa	470-630 Mpa
	S355K2H	355 Mpa	510-680 Mpa	470-630 Mpa
Impact strength	Steel grades	Minimal breackage energy upon impact KV^c		
		Test temperature		
		-20°C	0°C	+20°C
	S235JRH	-	-	27J
	S275JOH	-	27J	-
	S275J2H	-	27J	-
	S355JOH	27J	-	-
	S355J2H	27J	-	-
	S355K2H	27J	-	-

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
S275JOH	1,0149	0,40
S275J2H	1,0138	0,40
S355JOH	1,0547	0,45
S355J2H	1,0576	0,45
S355K2H	1,0512	0,45

Signed for and on behalf of the manufacturer by:

TALHA ENES YILDIRIM

QUALITY ENGİNEER

ÇINAR BORU PROFİL SAN. VE TİC. A.Ş.

05.05.2015