

DECLARATION OF PERFORMANCE

Nº 01 CPR 2026-09-25

1. *Unique identification code of the product-type:*

Cold formed:

- **Circular hollow section (ϕ 21.3 to ϕ 168.3)**
- **Square hollow section (20x20 to 150x150)**
- **Rectangular hollow section (25x15 to 200x100)**

2. *Intended uses:*

Cold formed steel hollow sections for building and civil engineering

3. *Manufacturer:*

ALPOS METALURGIJA D.O.O
Cesta Kozjanskega odreda 25,
3230 ŠENTJUR
SLOVENIA
e-mail: info@alpos-metalurgija.eu
Tel +386 (0)51 288 180

4. *Authorised representative:*

NA

5. *System or systems of assessment and verification of constancy of performance of the construction product:*

System 2+

6. *Harmonized standard:*

EN 10219-1:2006

Notified body:

"Dedal – A&C" , Ltd. – Nesebar No 1922 , performed the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control 1922-CPR-0905 on 17 August 2026.

7. Declared performance:

Essential characteristics	Performance			Harmonised technical specification
Tolerances on dimensions and shape	Conform to:		EN10219-2:2019	
	Characteristic	Circular hollow sections	Square and rectangular hollow sections	Elliptical hollow section
			Side length mm	Tolerance
	Outside dimensions (<i>D</i> , <i>B</i> and <i>H</i>)	±1 % with a minimum of ± 0,5 mm and a maximum of ± 10 mm	<i>H</i> , <i>B</i> < 100 100 ≤ <i>H</i> , <i>B</i> ≤ 200 <i>H</i> , <i>B</i> > 200	±1 % with a minimum of ± 0,5 mm ±0,8 % ±0,6 %
	Thickness (<i>T</i>)	For <i>D</i> ≤ 406,4 mm: <i>T</i> ≤ 5 mm ± 10 % <i>T</i> > 5 mm ± 0,5 mm For <i>D</i> > 406,4 mm: ±10 % with a maximum of ± 2 mm	<i>T</i> ≤ 5 mm ± 10 % <i>T</i> > 5 mm ± 0,5 mm	<i>T</i> ≤ 5 mm ± 10 % <i>T</i> > 5 mm ± 0,5 mm
	Out-of-roundness (<i>O</i>)	2 % for hollow sections having a diameter to thickness ratio not exceeding 100 ^a	—	—
	Concavity/convexity (<i>x</i> ₁ , <i>x</i> ₂) ^b	—	Max. 0,8 % with a minimum of 0,5 mm	—
	Squareness of side (<i>θ</i>)	—	90° ± 1°	—
	External corner profile (<i>C</i> ₁ , <i>C</i> ₂ or <i>R</i>)	—	See Table 3	—
	Twist (<i>V</i>)	—	2 mm plus 0,5 mm/m length	—
Straightness (<i>e</i>)	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	0,20 % of total length and 3 mm over any 1 m length	
Mass per unit length (<i>M</i>)	±6 % on individual delivered lengths			
^a When the diameter to thickness ratio exceeds 100, application of tolerance on out-of-roundness is not required, unless specifically agreed (see 5.2).				
^b The tolerance on convexity and concavity is independent of the tolerance on outside dimensions.				

EN 10219-1:2006

Table 3 — Tolerances on external corner profiles

Dimensions in millimetres

Thickness <i>T</i>	External corner profile <i>C</i> ₁ , <i>C</i> ₂ or <i>R</i> ^a
<i>T</i> ≤ 6	1,6 <i>T</i> to 2,4 <i>T</i>
6 < <i>T</i> ≤ 10	2,0 <i>T</i> to 3,0 <i>T</i>
10 < <i>T</i>	2,4 <i>T</i> to 3,6 <i>T</i>

^a The sides need not be tangential to the corner arcs.

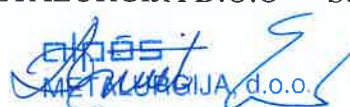
Minimum elongation (A)	Steel name		Specified thickness					
	S235JRH		≤ 40					
	S275J0H		24% *					
	S275J2H		20% **					
	S355J0H		20% **					
	S355J2H		20% **					
(*) For thicknesses > 3mm and section sizes D/T<15 (round) and (B+H)/2T<12.5 (square and rectangular) the minimum elongation is reduced by 2. For thicknesses ≤3mm the minimum value for elongation is 17%.								
(**) For section sizes D/T<15 (circular) and (B+H)/2T<12.5(square and rectangular) the minimum elongation is reduced by 2.								
Minimum yielded strenght Re _H MPa	Steel name		Specified thickness					
	S235JRH		≤16	> 16 ≤ 40				
	S275J0H		235	225				
	S275J2H		275	265				
	S355J0H		355	345				
	S355J2H		355	345				
Tensile strenght R _m MPa	Steel name		Specified thickness					
	S235JRH		< 3	≥ 3 ≤ 40				
	S275J0H		360-510	360-510				
	S275J2H		430-580	410-560				
	S355J0H		510-580	470-630				
	S355J2H		510-580	470-630				
Minimum impact strenght * J (*) impact test are not required for specified thickness < 6mm	Steel name		At test temperature of					
	S235JRH		-20 °C	0 °C				
	S275J0H		-	27				
	S275J2H		27	-				
	S355J0H		-	27				
	S355J2H		27	-				
Weld ability	Steel name		Chemical composition		Cast analysis for product		max. CEV (%)	
	S235JRH		C	Si	Mn	P	S	N ^b
	S275J0H		0.17	-	1.4	0.04	0.04	0.009
	S275J2H		0.2	-	1.5	0.035	0.035	0.009
	S355J0H		0.2	-	1.6	0.03	0.30	-
	S355J2H		0.22	0.55	1.6	0.35	0.035	0.009
Durability	NPD							

The performance of the products identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Sentjur,
25.09.2026

Aca Dimitrijevic/ Mojca Klajderic
"ALPOS METALURGIJA D.O.O" – Sentjur, Slovenia


ALPOS METALURGIJA, d.o.o.

3230 Šentjur

