

## DECLARATION OF PERFORMANCE

### N° UKCA 01/2022

**1. Name and identification code:**

Hot rolled products of structural steel, types S235/S275/S355 and grades JR/J0/J2  
**C E L S A H**

**2. Name and manufacturer's address:**

**CELSA „Huta Ostrowiec” Sp. z o.o.,**  
**ul. Samsonowicza 2,**  
**27-400 Ostrowiec Św.**  
**POLAND,**  
**tel. +48 41 249 30 00, fax. +48 41 249 22 22, celsaho@celsaho.com**

**3. Intended use:**

To be used in welded, bolted and riveted structures

**4. System of assessment and verification of constancy of performance of the product**

System 2+

**5. Approved Body UK:**

LRQA Verification Limited (Reg. No 4929226)  
 Assessment and evaluation of factory production control for the system 2+  
 Factory production control certificate 0038/UK/CPR/PRJ11100394887, issued on 12-12-2022

**6. Determined performances**

Essential Characteristics	Performance	Harmonised technical specification	
Dimensional and shape tolerances	Round bars $\phi$ 10 ÷ $\phi$ 102 Flat bars width 12x4 ÷ 200x20 Square bars 10x10 ÷ 20x20 Angles 20x20x3 ÷ 150x150x15 Channels UPN 80 ÷ 300 Normal flange I-beams IPN 80 ÷ 300 Economical parallel flange I-beams IPE 80 ÷ 300 Wide flange I-beams HEA 100 ÷ 160 Wide flange I-beams HEB 100 ÷ 160	EN 10060 EN 10058 EN 10059 EN 10056-2 EN 10279 EN 10024 EN 10034 EN 10034 EN 10034	EN 10025-1:2004

Essential characteristics	Declared performance				Harmonised technical specification
Elongation	Nominal thickness [mm]	$\geq 3$ $\leq 40$	$> 40$ $\leq 63$	$> 63$ $\leq 100$	EN 10025-1:2004
	Minimum percentage elongation after fracture [%]				
	S235JR, S235J0	26	25	24	
	S235J2	24	23	22	
	S275JR, S275J0	23	22	21	
	S275J2	21	20	19	
Tensile strength	S355JR, S355J0, S355J2	Rm = 360 ÷ 510 MPa			EN 10025-1:2004
	S275JR, S275J0, S275J2	Rm = 410 ÷ 560 MPa			
	S355JR, S355J0, S355J2	Rm = 470 ÷ 630 MPa			

Essential characteristics	Declared performance												Harmonised technical specification		
Yield strenght	Nominal thickness [mm]		≤ 16	> 16 ≤ 40	> 40 ≤ 63	> 63 ≤ 80	> 80 ≤ 100	Minimum yield strenght R <sub>eH</sub> [MPa]						EN 10025-1:2004	
	S235JR, S235J0, S235J2		235	225	215	215	215								
	S275JR, S275J0, S275J2		275	265	255	245	235								
	S355JR, S355J0, S355J2		355	345	335	325	315								
Impact strenght	S235JR, S275JR, S355JR		Min average energy in temperature 20°C 'not applicable or ≥ 27 J										EN 10025-1:2004		
	S235J0, S275J0, S355J0		Minimum average energy in temperature 0°C ≥ 27 J												
	S235J2, S275J2, S355J2		Minimum average energy in temperature -20°C ≥ 27 J												
Weldability (Chemical composition)  Durability (Chemical composition)	Nominal thickness [mm]		≤ 16	> 16 ≤ 40	> 40	Si	Mn	P	S	Cu	N	CEV		EN 10025-1:2004	
												≤ 30	> 30 ≤ 40		> 40
	max. [%]														
	S235JR		0,17	0,17	0,20	-	1,40	0,040	0,040	0,55	0,012	0,35	0,35		0,38
	S235J0		0,17	0,17	0,17	-	1,40	0,035	0,035	0,55	0,012	0,35	0,35		0,38
	S235J2		0,17	0,17	0,17	-	1,40	0,030	0,030	0,55	-	0,35	0,35		0,38
	S275JR		0,21	0,21	0,22	-	1,50	0,040	0,040	0,55	0,012	0,40	0,40		0,42
	S275J0		0,18	0,18	0,18	-	1,50	0,035	0,035	0,55	0,012	0,40	0,40		0,42
	S275J2		0,18	0,18	0,18	-	1,50	0,030	0,030	0,55	-	0,40	0,40		0,42
	S355JR		0,24	0,24	0,24	0,55	1,60	0,040	0,040	0,55	0,012	0,45	0,47		0,47
S355J0		0,20	0,20	0,22	0,55	1,60	0,035	0,035	0,55	0,012	0,45	0,47	0,47		
S355J2		0,20	0,20	0,22	0,55	1,60	0,030	0,030	0,55	-	0,45	0,47	0,47		

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (UE Exit) Regulations 2020 No 1359, under the sole responsibility of the manufacturer indicated in point 2.

Signed for and on behalf of the manufacturer:

DYREKTOR  
 ds. Jakości ZWW

*Stanisław Klusek*  
 Stanisław Klusek  
 Quality Manager

Ostrowiec Świętokrzyski, 2022.12.12