

Declaration of Performance

Nr. DoP_WA1090-1_en_rev01

1. Unique identification code of the product type:

Open profiles*)	Height	Width	Thicknesses	Steel grades
min.	—	20 mm	1,50 bis 4,00 mm	S220GD – S550GD nach EN 10346
max.	80 mm	200 mm		

*) Individual profiles according to customer drawings

2. Identification:
Ident- and heatno.

3. Intended use:
For use as substructure components in PV systems

4. Manufacturer:
Wuppermann Austria GmbH
Gußstahlwerkstraße 23
A-8750 Judenburg, Austria

5. Company / Autorised representative:
Wuppermann Austria GmbH
Gußstahlwerkstraße 23
A-8750 Judenburg, Austria

6. System of assessment and verification of constancy of performance:
System 2+ according to annex V of CPR No. 305/2011

7. Harmonised standard:
EN 1090-4:2020; Execution of steel structures and aluminium structures
Teil 4: Technical requirements for cold-formed structural steel elements and cold-formed structures for roof, ceiling, floor and wall applications

8. TÜV AUSTRIA GMBH – Cert.no. 0408-CPR-TA04176

9. Declared performance:

Essential characteristics				Harmonized standard	
External dimensions (B and H)	Thickness T [mm]	Limiting dimensions for external dimensions [mm]			
		<= 1,50	<= 40	> 40 <= 100	> 100 <= 200
		> 1,50 <= 3,00	+/- 0,50	+/- 0,50	+/- 0,75
		> 3,00 <= 6,00	+/- 0,75	+/- 0,75	+/- 1,00
		+/- 1,00	+/- 1,00	+/- 1,25	
Thickness T	1,50 up to 4,00 mm (tolerances according to EN 10143)				
Concavity/convexity	Curvature within the limit deviations of the cross-section is always permissible				
Twist V	1°/m				
Straightness q	0,002 x length				
Inner radius	min. +/- 0,50 mm, +/- 20 %				

Steel grade	Essential characteristics			Harmonized standard
	Elongation min. [%]	Yield strength R _{p0.2} min. [MPa]	Tensile strength R _m min. [MPa]	
S220GD	20	220	300	EN 1090-1
S250GD	19	250	330	
S280GD	18	280	360	
S320GD	17	320	390	
S350GD	16	350	420	
S390GD	16	390	460	
S420GD	15	420	480	
S450GD	14	450	510	
S550GD	—	550	560	

Coating designation	Minimum total coating mass (both surfaces) [g/m²]		Theoretical guidance values for coating thickness per surface in the single spot test [µm]		Density [g/cm³]	Harmonized standard
	Triple spot test	Single spot test	Typical value	Range		
Zinc coating masses (Z)						
Z275	275	235	20	11 bis 22	7,10	EN 1090-1
Z350	350	300	25	17 bis 33		
Z450	450	385	32	22 bis 42		
Z600	600	510	42	29 bis 55		
Z800	800	700	56	49 bis 62		
Z1000	1000	900	70	63 bis 77		
Z1200	1200	1100	84	77 bis 93		
Zinc-magnesium alloy coating masses (ZM)						
ZM300	300	255	23	17 bis 30	6,20 bis 6,60	EN 1090-1
ZM310	310	265	24	18 bis 31		
ZM350	350	300	27	19 bis 33		
ZM430	430	365	35	26 bis 46		
ZM450	450	386	36	31 bis 40		
ZM600	600	510	48	41 bis 53		
ZM800	800	400	64	64 bis 81		
ZM1000	1000	500	81	81 bis 97		

The performance of the product identified under point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer identified under 3.

Signed for and on behalf of the manufacturer by:


 Hubert Pletz
 Managing director
 Wuppermann Austria GmbH

Judenburg, 27th May, 2024