Our date: 4/01/2024
Our ref.: MA
Our contact: Marcel Andratschke

Declaration of Performance

N° 006 RAE 2024 01 04

Extrusions Benelux
Declaration of Performance
0036-CPR-M-146.2023.001

Hydro Extrusion Raeren S.A.

1. Unique identification code of the product–type:

   EN AW-6082 T6

2. Type number allowing identification of the construction product

   Extruded rod / bar, tube and profiles according EN 15088

3. Intended uses:

   Internal and external structural construction works

4. Name, registered trade name or registered trade mark and contact address
   Hydro Extrusion Raeren SA
   Waldstrasse, 91
   B-4730 RAEREN
   Tel : 0032 87 859 211
   Internet: www.hydro.com/raeren

5. Name and contact address of the authorized representative

   Not applicable

6. System or systems of assessment and verification of constancy of performance of the construction product

   System 2+

7. Case of the declaration of performance concerning a construction product by a harmonized standard
   TÜV Süd Industrie Service GmbH, No. 0036, has performed the initial inspection of factory and factory production control and monitoring, review and approval of the factory production control according to system 2+ and issued conformity certificates of production control for the plant
   Hydro Extrusion Raeren 0036-CPR-M-146.2023.001

8. Case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

   Not applicable

9. Declared performance

Essential Characteristic	Performance												Harmonised technical specification
Tolerance on dimensions and shape	**Tolerances on dimensions**								EN 755-9:2016 Group II				EN 15088:2005
	Cross –sectional dimensions												
	Length												
	Squareness of cut ends												
	Tolerances on form								EN 755-9:2016 Group II				
	Straightness												
	Convexity-Concavity												
	Contour												
	Twist												
	Angularity												
	Corner and fillet radii												
Tensile strength	Extruded rod / bar		Dimensions (mm)						EN 755-2:2013				EN 15088:2005
									T6				
	D [a]		S [b]						Rm (MPa)				
	≤ 20		≤ 20						295				
	20 < D ≤ 150		20 < S ≤ 150						310				
	150 < D ≤ 200		150 < S ≤ 200						280				
	200 < D ≤ 250		200 < S ≤ 250						270				
	Extruded tube		Wall Thickness t (mm)										
	≤ 5								290				
	5 < t ≤ 25								310				
	Extruded Open profile		Wall thickness t (mm)										
	≤ 5								290				
	5 < t ≤ 25								310				
	Extruded Hollow profile		Wall thickness t (mm)										
	≤ 5								290				
	5 < t ≤ 25								310				
Yield strength	Extruded rod / bar		Dimensions (mm)										
	D [a]		S [b]						$R_{p0,2}$ (Mpa)				
	≤ 20		≤ 20						250				
	20 < D ≤ 150		20 < S ≤ 150						260				
	150 < D ≤ 200		150 < S ≤ 200						240				
	200 < D ≤ 250		200 < S ≤ 250						200				
	Extruded tube		Wall Thickness t (mm)										
	≤ 5								250				
	5 < t ≤ 25								260				
	Extruded Open profile		Wall thickness t (mm)										
	≤ 5								250				
	5 < t ≤ 25								260				
	Extruded Hollow profile		Wall thickness t (mm)										
	≤ 5								250				
	5 < t ≤ 25								260				
Elongation	Extruded rod / bar		Dimensions (mm)										
	D [a]		S [b]						A (%)	A_{50} (%)			
	≤ 20		≤ 20						8	6			
	20 < D ≤ 150		20 < S ≤ 150						8	-			
	150 < D ≤ 200		150 < S ≤ 200						6	-			
	200 < D ≤ 250		200 < S ≤ 250						6	-			
	Extruded tube		Wall Thickness t (mm)										
	≤ 5								8	6			
	5 < t ≤ 25								10	8			
	Extruded Open profile		Wall thickness t (mm)										
	≤ 5								8	6			
	5 < t ≤ 25								10	8			
	Extruded Hollow profile		Wall thickness t (mm)										
	≤ 5								8	6			
	5 < t ≤ 25								10	8			
Weldability	No performance determined												
Bendability	No performance determined												
Fatique strength	No performance determined												
Regulated substance													
Durability	No performance determined												
Chemical composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	remarks	others		aluminium	EN 15088:2005
	0,7			0,40	0,6							Remainder	
	1,3	0,50	0,10	1,0	1,2	0,25	0,20	0,10		0,05	0,15		

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of Hydro Extrusion Raeren S.A. by

Marcel ANDRATSCHKE Quality Manager

Raeren 4/01/2024