

Declaration of Performance

N° 005 RAE 2022 09 29

Extrusions Benelux
Declaration of Performance
0036-CPR-M-078-2014

Hydro Extrusion Raeren S.A.

1. Unique identification code of the product–type:

EN AW-6005A 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
Fax : 0032 87 859 330
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-078-2014
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 I	EN 15088:2005		
	Cross-sectional dimensions													
	Length													
	Squareness of cut ends													
	Tolerances on form													
	Straightness													
	Convexity-Concavity													
	Contour													
	Twist													
Tensile strength	Extruded rod / bar Dimensions (mm)										EN 755-2:2016 T6 Rm (MPa)	EN 15088:2005		
	D ^a		S ^b										270	
	≤ 25		≤ 25											
	25 < D ≤ 50		25 < S ≤ 50											
	50 < D ≤ 100		50 < S ≤ 100										260	
	Extruded tube Wall Thickness t (mm)												270	
	≤ 5													
	5 < t ≤ 10												260	
	Extruded Open profile Wall thickness t (mm)												270	
	≤ 5													
	5 < t ≤ 10													
	10 < t ≤ 25												250	
	Extruded Hollow profile Wall thickness t (mm)												255	
	≤ 5													
	5 < t ≤ 15													
Yield strength	Extruded rod / bar Dimensions (mm)										R _{p0.2} (Mpa)	EN 15088:2005		
	D ^a		S ^b										225	
	≤ 25		≤ 25											
	25 < D ≤ 50		25 < S ≤ 50											
	50 < D ≤ 100		50 < S ≤ 100										215	
	Extruded tube Wall Thickness t (mm)												225	
	≤ 5													
	5 < t ≤ 10												215	
	Extruded Open profile Wall thickness t (mm)												225	
	≤ 5													
	5 < t ≤ 10													
	10 < t ≤ 25												200	
	Extruded Hollow profile Wall thickness t (mm)												215	
	≤ 5													
	5 < t ≤ 15													
Elongation	Extruded rod / bar Dimensions (mm)										A (%) A ₅₀ (%)	EN 15088:2005		
	D ^a		S ^b										10	8
	≤ 25		≤ 25											
	25 < D ≤ 50		25 < S ≤ 50											
	50 < D ≤ 100		50 < S ≤ 100										8	-
	Extruded tube Wall Thickness t (mm)												8	6
	≤ 5													
	5 < t ≤ 10												8	6
	Extruded Open profile Wall thickness t (mm)												8	6
	≤ 5													
	5 < t ≤ 10													
	10 < t ≤ 25												8	6
	Extruded Hollow profile Wall thickness t (mm)												8	6
	≤ 5													
	5 < t ≤ 15													
Weldability	No performance determined													
Bendability	No performance determined													
Fatigue 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		
	0,50				0,40				0,12-0,50 Mn+Cr		aluminium			
	0,9	0,35	0,30	0,50	0,7	0,30	0,20	0,10		0,05	0,15		Remainder	

Our date: 29/09/2022
Our ref.: MA
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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 29/09/2022