

# Declaration of Performance

N° 005 RAE 2020 08 18

Extruded Solutions  
Declaration of Performance  
0036-CPR-M-078-2014

Extrusion Benelux

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](http://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	<b>Tolerances on dimensions</b>										EN 755-9:2016 Group I	EN 15088:2005		
	Cross-sectional dimensions													
	Length													
	Squareness of cut ends													
	<b>Tolerances on form</b>													
	Straightness													
	Convexity-Concavity													
	Contour													
	Twist													
Tensile strength	Extruded rod / bar Dimensions (mm)										EN 755-2:2016 T6	EN 15088:2005		
	D <sup>a</sup>		S <sup>b</sup>		R <sub>m</sub> (MPa)									
	≤ 25		≤ 25		270									
	25 < D ≤ 50		25 < S ≤ 50		270									
	50 < D ≤ 100		50 < S ≤ 100		260									
	Extruded tube Wall Thickness t (mm)													
	≤ 5												270	
	5 < t ≤ 10												260	
	Extruded Open profile Wall thickness t (mm)													
	≤ 5												270	
	5 < t ≤ 10												260	
	10 < t ≤ 25												250	
	Extruded Hollow profile Wall thickness t (mm)													
	≤ 5												255	
	5 < t ≤ 15												250	
Yield strength	Extruded rod / bar Dimensions (mm)										EN 755-2:2016 T6	EN 15088:2005		
	D <sup>a</sup>		S <sup>b</sup>		R <sub>p0.2</sub> (Mpa)									
	≤ 25		≤ 25		225									
	25 < D ≤ 50		25 < S ≤ 50		225									
	50 < D ≤ 100		50 < S ≤ 100		215									
	Extruded tube Wall Thickness t (mm)													
	≤ 5												225	
	5 < t ≤ 10												215	
	Extruded Open profile Wall thickness t (mm)													
	≤ 5												225	
	5 < t ≤ 10												215	
	10 < t ≤ 25												200	
	Extruded Hollow profile Wall thickness t (mm)													
	≤ 5												215	
	5 < t ≤ 15												200	
Elongation	Extruded rod / bar Dimensions (mm)										EN 755-2:2016 T6	EN 15088:2005		
	D <sup>a</sup>		S <sup>b</sup>		A (%)		A <sub>50</sub> (%)							
	≤ 25		≤ 25		10		8							
	25 < D ≤ 50		25 < S ≤ 50		8		-							
	50 < D ≤ 100		50 < S ≤ 100		8		-							
	Extruded tube Wall Thickness t (mm)													
	≤ 5												8	6
	5 < t ≤ 10												8	6
	Extruded Open profile Wall thickness t (mm)													
	≤ 5												8	6
	5 < t ≤ 10												8	6
	10 < t ≤ 25												8	6
	Extruded Hollow profile Wall thickness t (mm)													
	≤ 5												8	6
	5 < t ≤ 15												8	6
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		Remainder			
	0,9	0,35	0,30	0,50	0,7	0,30	0,20	0,10		0,05	0,15			

Our date: 18/08/2020  
Our ref.: HR  
N° 005 RAE 2020 08 18

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 the manufacturer by

Helmuth RADERMACHER Quality Manager

Raeren

18/08/2020