

1. Mechanical properties

Alloy and temper	Proof (MPa)	UTS (MPa)	Elongation (%)
4017 H32	120	155 - 180	15

Note: Single values represent minimum

2. Bendability

Alloy and temper	Thickness range (mm)	Bend radius	
		90°	180°
4017 H32	2.00 – 3.000	0T	1T

Note: It is acknowledged that smaller bend radii can be achieved however, the smaller bend radius can lead to deterioration of the surface of the metal in the bend in the form of orange peel. For this reason, the above recommended.

3. Chemical Composition

%	Si	Fe	Cu	Mn	Mg	Zn	Others		Al
							Each	Total	
min	0.6	-	0.10	0.6	0.10	-	-	-	Bal
max	1.6	0.7	0.50	1.2	0.50	0.20	0.05	0.15	
typical	1.30	0.32	0.28	1.10	0.28	0.01	0.059Ti	0.11	

4. Physical properties

Property	Value	Unit
Density at 20°C	2.72	g / cm ³
Melting Range	560 – 640	°C
Thermal Capacity	900	J / kg°C
Thermal Conductivity	200	W / m°C
Thermal Expansion	23 x 10 ⁻⁶	/ °C
Resistivity at 20°C	32	nΩm
Modulus of Elasticity	70	GPa
Modulus of Rigidity	27	GPa

5. Processing attributes

5.1. Corrosion resistance: According to field tests, 4017 exhibits similar results as standard 3 series alloys

5.2. Surface Treatment: Suitable for coil coating, powder / spray coating. Material can be supplied in mill and painted finishes.

5.3. Formability: Has good formability. Suitable for roll forming and fabrication.

5.4. Weldability: This product can be welded by MIG, TIG, LASER and high frequency methods. Recommended welding wire is 4043.

5.5. Applications: General coil and sheet metal work, where good strength and formability is required. Medium strength applications.

6. Specifications Availability

Thickness	2mm – 3mm
Width	1000 - 1525
Length	2000 - 4000

Note: Other specifications are subject to enquiry

7. Certification: In accordance with BS EN 573-3.

Certificate

Conformity of the factory production control according Regulation 305/2011/EU: System 2+

Certificate no.:

2627-CPR-B.ZA0001.TUVRH.21.01

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation - CPR), this certificate applies to the construction product:

Scope

Hot Rolled Products of Aluminium Alloys
for construction works (See Annex)

Name and address of the manufacturer:

Hulamin Operations (Pty) Ltd.
Moses Mabhida Road,
Pietermaritzburg, 3200
South Africa

Manufacturing plant:
Place of production of the manufacturer
Specification:

Moses Mabhida Road, Pietermaritzburg, 3200
South Africa

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s): **EN 15088:2005**

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements

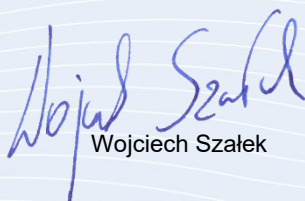
Validity period:

This certificate was first issued on 14.05.2021 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, but not longer than 13.05.2027

Remarks:

Audit date: 08.05.2024
n/a

Zabrze, 05.09.2024


Wojciech Szalek



TÜV Rheinland Polska Sp. z o.o.
Notified Body No. 2627 for Construction Products
Business Stream Industrial Services & Cybersecurity
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e-mail: post@pl.tuv.com

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Annex to Certificate No.: 2627-CPR-B.ZA0001.TÜVRh.21.01

Scope according to	☐ Directive 2014/68/EU Annex I §4.3	☐ EN 764-4	☐ AD 2000-Merkblatt W0	☒ FPC, Regulation (EU) No. 305/2011(System 2+)								
Manufacturer		Work	Nationality	Date	Page No..							
Company Name: Hulamin Operations (Pty) Ltd.		Moses Mabhida Road, Pietermaritzburg, 3200, South Africa	South Africa	05.09.24	1	TÜV Rheinland Polska Sp. z o.o.						
Location: Pietermaritzburg, 3200, South Africa				Rev.:0	of : 1							
Cur -	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Technical Regulations	Remarks	
					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Details of Validity of the factory production control of hot rolled Products of Structural Steels and Stainless Steels in accordance to Regulation 305/2011/EU: System 2+												
1	EN AW 6082 T651 EN AW 5083 H111 EN AW 5754 H11 and H22 EN AW 4017 H32	EN 573-3	S	Sheet / Strip / Plate	3 3 0.6 0.6	60 60 20 3	-	-	-	-	EN 15088:2005	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed +NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary										



American Systems Registrar, LLC, a provider of third-party system registration and accredited by the ANSI National Accreditation Board attests that:

HULAMIN OPERATIONS (PTY) LTD
MOSES MABHIDA ROAD
PIETERMARITZBURG 3201
ZULU NATAL
SOUTH AFRICA

with a scope of:

***THE MANUFACTURING AND SUPPLY OF ALUMINIUM ALLOY PLATE,
COIL SHEET, CANSTOCK, CANBODY STOCK, COATED PRODUCTS
AND ALUMINIUM PIGMENT PASTE***

has established a quality management system that is in conformance with the International Quality System Standard

ISO 9001:2015

ASR Certificate Number: 7668
Date of Certification: July 1, 2022
Date of Certification Expiration: June 30, 2025
Date of Initial Registration: October 14, 1988
Revision:
Re-Issue Date:

Richelle Kinzie
President

CERTIFICATE OF REGISTRATION