

**CERTIFICATE OF CONFORMITY
OF THE FACTORY PRODUCTION CONTROL****No. 1436 – CPR – 0032**

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**Hot rolled or cold rolled sheets, plates, strips and hot rolled or cold rolled tread sheets
and strips made of aluminium and aluminium alloys, intended for internal
and external loaded construction elements of buildings
acc. to Enclosure No. 1.**

placed on the market under the name or trade mark of:

**GRÄNGES KONIN S.A.
ul. Bolesława Prusa 2
00-493 Warszawa**

and produced in the manufacturing plant:

**GRÄNGES KONIN S.A.
str. Hutnicza 1
62-510 Konin**

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.

This certificate was first issued on 30.10.2013 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

DYREKTOR DS. CERTYFIKACJI

dr inż. Tomasz Włodek



PREZES ZARZĄDU

mgr inż. Edward Makieła

Enclosure No. 1
to the Certificate No. 1436-CPR-0032
of 25.07.2024

Sheets, plates, strips and tread sheets and strips of aluminium and aluminium alloys acc. to EN 485-1, EN 1386 of aluminium alloys acc. to EN 485-2

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics	
1.	Sheets, plates, strips	EN 485-1	EN-AW-1050A	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26, H28	thickness 0,2÷20mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-2 <ul style="list-style-type: none"> • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability 	
			EN AW-1200	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26			
			EN AW-3003	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26, H28			
			EN AW-3004	F, O, H111, H12, H14, H16, H18, H19, H22, H32, H24, H34, H26, H36, H28, H38			
			EN AW-3005	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26, H28			
			EN AW-3103	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26, H28			
			EN AW-3105	F, O, H111, H12, H14, H16, H18, H19, H22, H24, H26, H28			
			EN AW-5005A	F, O, H111, H12, H14, H16, H18, H19, H22, H32, H24, H34, H26, H36, H28, H38			
			EN AW-5049	F, O, H111, H12, H14, H16, H18, H22, H32, H24, H34, H26, H36, H28, H38			
			EN AW-5052	F, O, H111, H12, H14, H16, H18, H22, H32, H24, H34, H26, H36, H28, H38			
			EN AW-5083	F, O, H111, H12, H14, H16, H22, H32, H24, H34, H26, H36			
			EN AW-5086	F, O, H111, H12, H14, H16, H18, H22, H32, H24, H34, H26, H36			
			EN AW-5182	F, O, H111, H19			
			EN AW-5251	F, O, H111, H12, H14, H16, H18, H22, H32, H24, H34, H26, H36, H28, H38			

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
2.	Sheets, plates, strips	EN 485-1	EN AW-5454	F, O, H111, H12, H14, H22, H32, H24, H34, H26, H36, H28, H38	thickness 0,2÷20mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-2 <ul style="list-style-type: none"> • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability
			EN AW-5754	F, O, H111, H12, H14, H16, H18, H22, H32, H24, H34, H26, H36, H28, H38		
			EN AW-8011A	F, O, H111, H14, H16, H18, H22, H24, H26		
2.	Tread sheets, strips	EN 1386	EN AW-1050A	F, H244	thickness 1,2÷20 mm	<ul style="list-style-type: none"> - acc. to EN 1386 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability
			EN AW-3003	F, H224, H244		
			EN AW-3103	F, H224, H244		
			EN AW-5052	F, H114, H224, H244		
			EN AW-5083	H114, H116, H224, H244		
			EN AW-5086	H114, H116, H224, H244		
			EN AW-5754	F, H114, H224, H244		
			EN-AW 4115	H224		
			thickness 0,2÷5,0 mm	<ul style="list-style-type: none"> - acc. to EN 1386 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape • yield strength: min. 60 MPa • tensile strength: 100÷155 MPa • elongation: min. 10% 		
2.		AK4C	H224	thickness 0,1÷4,0 mm	<ul style="list-style-type: none"> - acc. to EN 1386 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape • yield strength: min. 75 MPa • tensile strength: 130÷180 MPa • elongation: min. 6% 	
			H244			<ul style="list-style-type: none"> - acc. to EN 1386 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape • yield strength: min. 110 MPa • tensile strength: 160÷210 MPa • elongation: min. 4%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
3.	Sheets, strips	EN 485-1	EN AW-4015	O, H111, H12, H14, H16, H18	thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-2 <ul style="list-style-type: none"> • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability
			EN AW-4016	O H12 H14 H16 H18 H26 H28	thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 35 MPa • tensile strength: 100÷140 MPa • elongation: min. 14% • yield strength: min. 90 MPa • tensile strength: 120÷160 MPa • elongation: min. 4% • yield strength: min. 120 MPa • tensile strength: 145÷185 MPa • elongation: min. 2% • yield strength: min. 140 MPa • tensile strength: 165÷205 MPa • elongation: min. 1% • yield strength: min. 170 MPa • tensile strength: 200 MPa • elongation: min. 1% • yield strength: min. 120 MPa • tensile strength: 165÷205 MPa • elongation: min. 3% • yield strength: min. 160 MPa • tensile strength: 190÷230 MPa • elongation: min. 2%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	EN 485-1	EN AW-4017		thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products)
				O		<ul style="list-style-type: none"> • yield strength: min. 35 MPa • tensile strength: 100÷145 MPa • elongation: min. 10%
				H12		<ul style="list-style-type: none"> • yield strength: min. 90 MPa • tensile strength: 120÷160 MPa • elongation: min. 4%
				H14	thickness 0,2÷25 mm	<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 150÷190 MPa • elongation: min. 2%
				H16		<ul style="list-style-type: none"> • yield strength: min. 140 MPa • tensile strength: 180÷220 MPa • elongation: min. 1%
				H18		<ul style="list-style-type: none"> • yield strength: min. 170 MPa • tensile strength: 200 MPa • elongation: min. 1%
				H26		<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 180÷220 MPa • elongation: min. 1%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	EN 485-1	EN-AW 4115	O, H12, H14, H16, H18, H26	thickness 0,2÷3,0 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-2 <ul style="list-style-type: none"> • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability
					thickness 3,0÷5,0 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products)
			O			<ul style="list-style-type: none"> • yield strength: min. 35 MPa • tensile strength: 100÷145 MPa • elongation: min. 10%
			H12			<ul style="list-style-type: none"> • yield strength: min. 90 MPa • tensile strength: 120÷160 MPa • elongation: min. 4%
			H14			<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 150÷190 MPa • elongation: min. 2%

No.			Grade	Temper	Dimensions	Essential characteristics
			EN-AW 4115	H16	thickness 3,0÷5,0 mm	<ul style="list-style-type: none"> • yield strength: min. 140 MPa • tensile strength: 180÷220 MPa • elongation: min. 1%
				H18		<ul style="list-style-type: none"> • yield strength: min. 170 MPa • tensile strength: min. 200 MPa • elongation: min. 1%
				H26		<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 180÷220 MPa • elongation: min. 3%
				H22	thickness 0,2÷5,0 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 60 MPa • tensile strength: 100÷155 MPa • elongation: min. 10%
		EN-AW 5083		H18	thickness 0,2÷5,0 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 310 MPa • tensile strength: min. 370 MPa • elongation: min. 5%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	EN 485-1	EN AW-5449 EN AW-5449A EN AW-6082	O, H111, H22, H24, H26, H28 O, H111, H22, H24, H26, H28 O	thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-2 <ul style="list-style-type: none"> • elongation • tensile strength • yield strength - acc. to EN 15088 <ul style="list-style-type: none"> • weldability • durability
		—	AK4B	O H12 H14 H16 H18 H22 H24	thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 45 MPa • tensile strength: 120÷150 MPa. • elongation: 13÷17% • yield strength: min. 110 MPa • tensile strength: 130÷170 MPa • elongation: 2÷5% • yield strength: min. 140 MPa • tensile strength: 160÷190 MPa • elongation: 2÷4% • yield strength: min. 160 MPa • tensile strength: 175÷205 MPa • elongation: min. 2% • yield strength: min. 180 MPa • tensile strength: min. 190 MPa • elongation: 1÷2% • yield strength: min. 90 MPa • tensile strength: 130÷170 MPa • elongation: 6÷10% • yield strength: min. 130 MPa • tensile strength: 160÷190 MPa • elongation: 4÷9%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	—	AK4B	H26	thickness 0,2÷25 mm	<ul style="list-style-type: none"> • yield strength: min. 150 MPa • tensile strength: 175÷205 MPa • elongation: 3÷7%
				H28		<ul style="list-style-type: none"> • yield strength: min. 170 MPa • tensile strength: min. 190 MPa • elongation: 3÷4%
		—	AK4C		thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products)
				O		<ul style="list-style-type: none"> • yield strength: min. 45 MPa • tensile strength: 120÷160 MPa • elongation: 13÷17%
				H12		<ul style="list-style-type: none"> • yield strength: min. 100 MPa • tensile strength: 130÷180 MPa • elongation: 2÷5%
				H14		<ul style="list-style-type: none"> • yield strength: min. 130 MPa • tensile strength: 150÷200 MPa • elongation: 2÷4%
				H16		<ul style="list-style-type: none"> • yield strength: min. 150 MPa • tensile strength: 170÷220 MPa • elongation: min. 2%
				H18		<ul style="list-style-type: none"> • yield strength: min. 180 MPa • tensile strength: min. 200 MPa • elongation: 1÷2%
				H22		<ul style="list-style-type: none"> • yield strength: min. 90 MPa • tensile strength: 130÷180 MPa • elongation: 6÷10%
				H24		<ul style="list-style-type: none"> • yield strength: min. 110 MPa • tensile strength: 150÷200 MPa • elongation: 4÷9%
	H26				<ul style="list-style-type: none"> • yield strength: min. 130 MPa • tensile strength: 170÷220 MPa • elongation: 3÷7% 	
	H28				<ul style="list-style-type: none"> • yield strength: min. 160 MPa • tensile strength: min. 200 MPa • elongation: 3÷4% 	

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	—	AK5C	H14	thickness 0,2÷5,0 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 145 MPa • tensile strength: min. 190÷240 MPa • elongation: min. 5%
		—	AK4MI	O	thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 45 MPa • tensile strength: 120÷160 MPa • elongation: 13÷17%
				H12		<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 140÷180 MPa • elongation: 2÷5%
				H14		<ul style="list-style-type: none"> • yield strength: min. 140 MPa • tensile strength: 160÷200 MPa • elongation: 2÷4%
				H16		<ul style="list-style-type: none"> • yield strength: min. 160 MPa • tensile strength: 180÷220 MPa • elongation: min. 2%
				H18		<ul style="list-style-type: none"> • yield strength: min. 180 MPa • tensile strength: min. 200 MPa • elongation: 1÷2%
				H22		<ul style="list-style-type: none"> • yield strength: min. 100 MPa • tensile strength: 140÷180 MPa • elongation: 6÷10%
				H24		<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 160÷200 MPa • elongation: 4÷9%
				H26		<ul style="list-style-type: none"> • yield strength: min. 140 MPa • tensile strength: 180÷220 MPa • elongation: 3÷7%
				H28		<ul style="list-style-type: none"> • yield strength: min. 160 MPa • tensile strength: min. 200 MPa • elongation: 3÷4%

No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	—	AK4M2		thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 50 MPa • tensile strength: 145÷185 MPa • elongation: 13÷17%
				O		<ul style="list-style-type: none"> • yield strength: min. 145 MPa • tensile strength: 165÷205 MPa • elongation: 2÷5%
				H12		<ul style="list-style-type: none"> • yield strength: min. 165 MPa • tensile strength: 185÷225 MPa • elongation: 2÷4%
				H14		<ul style="list-style-type: none"> • yield strength: min. 185 MPa • tensile strength: 205÷245 MPa • elongation: min. 2%
				H16		<ul style="list-style-type: none"> • yield strength: min. 205 MPa • tensile strength: min. 225 MPa • elongation: 1÷2%
				H18		<ul style="list-style-type: none"> • yield strength: min. 120 MPa • tensile strength: 165÷205 MPa • elongation: 6÷10%
				H22		<ul style="list-style-type: none"> • yield strength: min. 140 MPa • tensile strength: 185÷225 MPa • elongation: 4÷9%
				H24		<ul style="list-style-type: none"> • yield strength: min. 160 MPa • tensile strength: 205÷245 MPa • elongation: 3÷7%
				H26		<ul style="list-style-type: none"> • yield strength: min. 180 MPa • tensile strength: min. 225 MPa • elongation: 3÷4%
				H28		<ul style="list-style-type: none"> • yield strength: min. 180 MPa • tensile strength: min. 225 MPa • elongation: 3÷4%

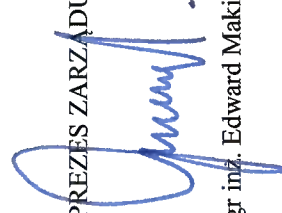
No.	Product	Standard	Grade	Temper	Dimensions	Essential characteristics
	Sheets, strips	ASTM B209	1100		thickness 0,2÷25 mm	<ul style="list-style-type: none"> - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) - acc. to EN 485-3 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (hot-rolled products) - acc. to EN 485-4 <ul style="list-style-type: none"> • allowed tolerances of dimensions and shape (cold-rolled products) • yield strength: min. 24 MPa • tensile strength: 75 ÷ 106 MPa • elongation: min. 15%
				O		<ul style="list-style-type: none"> • yield strength: min. 76 MPa • tensile strength: 96 ÷ 131 MPa • elongation: min. 3%
				H12/H22		<ul style="list-style-type: none"> • yield strength: min. 96 MPa • tensile strength: 110 ÷ 145 MPa • elongation: min. 1%
				H14/H24		<ul style="list-style-type: none"> • yield strength: min. 117 MPa • tensile strength: 131 ÷ 165 MPa • elongation: min. 1%
				H16/H26		<ul style="list-style-type: none"> • yield strength: - • tensile strength: min. 152 MPa • elongation: min. 1%
				H18/H28		<ul style="list-style-type: none"> • yield strength: - • tensile strength: min. 152 MPa • elongation: min. 1%

DYREKTOR DS. CERTYFIKACJI



dr inż. Tomasz Włodek

PREZES ZARZĄDU



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