

Declaration of Performance (DoP): Nr.Gnk.08.01

Stainless steel for construction purposes EU-regulation: 305/2011

Genk site / 1.4404 / Hot-Rolled / Cold-rolled

1. Product-type: 1.4404

2.

Construction product : Hot-rolled / Cold-rolled stainless steel coils, plates, sheets according to EN 10088-4

3.

Intended use: products for internal and external use for construction purposes, building constructions or civil engineering

4. Manufacturer:

APERAM GENK SWINNENWIJERWEG 5 3600 GENK BELGIUM

Tel: +32 (0)89 30 21 11 E-mail: Stefaan.Maes@aperam.com Website : <u>http://www.aperam.com/http://www.aperam.com/europe/news-</u> publications/documentation/certifications/approvals

5.

Authorised representative : Not applicable

6.

System of assessment and verification of constancy of performance : System 2+

7.

Case of the declaration of performance concerning a construction product by a harmonized standard : $T\hat{u}V S\hat{u}D$ Industrie Service GmbH, Nr. 0036, has performed the initial inspection of the factory and factory production control and monitoring, review and approval of the factory production control according to system 2+ and issued a conformity certificate of production control : Aperam Genk : "0036 - CPR - M - 43 - 2011"

8.

Case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued : Not applicable

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Declared performance :

Essential characteristics	Performance for 1.4404					Harmonised technical specification
		Nominal				
	Finish	thickness(mm)				
Tolerances on dimensions and shape	hot rolled		EN ISO 9444-2			
	cold rolled		EN ISO 9445-2			
		Values				
			min(trans)	min(long)	max	
Yield strength(Rp 0,2%)	hot rolled	≤13,5	220 Mpa			
	cold rolled	≤8	240 Mpa			
Yield strength(Rp1%)	hot rolled	≤13,5	260 Mpa			
	cold rolled	≤8	270 Mpa			
Tensile strength	hot rolled	≤13,5	530 Mpa		680MPa	
	cold rolled	≤8	530 MPa		680MPa	EN 10088-4
Elongation	hot rolled		40%			
	hot rolled cold	3 ≤ th ≤ 13,5	40%			
	rolled cold	<3	40%			
	rolled	3 ≤ th ≤ 13,5	40%			
Impact strength	hot rolled cold	>10	60 J	100 J		
	rolled		NPD	NPD		

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9.

Performance for 1.4404				
hot rolled cold rolled	chemical composition		specification	
hot rolled cold rolled	chemical composition			
hot rolled cold rolled	see elongation			
	Values			
hot rolled and cold rolled	C ≤ 0,030		-	
	Mn ≤ 2.00		EN 10088-4	
	S ≤0,015			
	Cr: 16,5 - 18,5 Ni: 10.0 - 13.0		-	
	Mo: 2.0 - 2,5			
hot rolled and cold rolled	NPD			
	cold rolled hot rolled cold rolled hot rolled cold rolled hot rolled and cold rolled	hot rolled cold rolledchemical compositionhot rolled cold rolledchemical compositionhot rolled cold rolledchemical compositionhot rolled cold rolledsee elongationhot rolled and cold rolledC ≤ 0,030Si ≤1.00Mn ≤ 2.00P < 0,045	hot rolled cold rolledchemical compositionhot rolled cold rolledchemical compositionhot rolled cold rolledchemical compositionhot rolled cold rolledsee elongationhot rolled and cold rolledC $\leq 0,030$ Net rolled and cold rolledC $\leq 0,030$ Ni ≤ 1.00 iMn ≤ 2.00 iP < 0,045	

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 Joost Vantrappen - Head Customer Service Genk, 07/02/2014

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Declaration of Performance (DoP): Nr.Gnk.10.01

Stainless steel for construction purposes EU-regulation: 305/2011

Genk site / 1.4401 / Hot-Rolled / Cold-rolled

1. Product-type : 1.4401

2.

Construction product : Hot-rolled / Cold-rolled stainless steel coils, plates, sheets according to EN 10088-4

3.

Intended use: products for internal and external use for construction purposes, building constructions or civil engineering

4. Manufacturer:

APERAM GENK SWINNENWIJERWEG 5 3600 GENK BELGIUM

Tel: +32 (0)89 30 21 11 E-mail: <u>Stefaan.Maes@aperam.com</u> Website : <u>http://www.aperam.com/http://www.aperam.com/europe/news-</u> publications/documentation/certifications/approvals

5.

Authorised representative : Not applicable

6.

System of assessment and verification of constancy of performance : System 2+

7.

Case of the declaration of performance concerning a construction product by a harmonized standard. T $\hat{u}V$ S $\hat{u}D$ Industrie Service GmbH, Nr. 0036, has performed the initial inspection of the factory and factory production control and monitoring, review and approval of the factory production control according to system 2+ and issued a conformity certificate of production control : Aperam Genk : "0036 - CPR - M - 43 - 2011"

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 :

Performance for 1.4401					Harmonised technical specification
Finish					
hot rolled		EN 10051/EN ISO 9444-2			
cold rolled		EN ISO 9445-2			
	Values				
			-	max	
	≤13,5	220 Mpa			
cold rolled	≤8	240 Mpa			
	≤13,5	260 Mpa			
cold rolled	≤8	270 Mpa			
	≤13,5	530 Mpa		680MPa	
rolled	≤8	530 MPa		680MPa	EN 10088-4
		40%			
cold					
cold rolled		40%			
	>10	60 J	100 J		
cold rolled		NPD	NPD		
	rolled	FinishNominal thickness(mm)hot rolled $(1, 2, 3)$ cold rolled $(2, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$ hot rolled $(3, 3)$ hot rolled $(3, 3)$ cold rolled $(3, 3)$	FinishNominal thickness(mm)hot rolledEN 10051/EN ISO 9444-2cold rolledEN ISO 9445-2cold rolledEN ISO 9445-2min(trans)Valueshot rolled $\leq 13,5$ cold rolled ≤ 8 240 Mpacold rolled ≤ 8 240 Mpacold rolled $\leq 13,5$ 260 Mpacold rolled $\leq 13,5$ 260 Mpacold rolled $\leq 13,5$ 260 Mpacold rolled ≤ 3 400 Mpacold rolled ≤ 3 40%hot rolled ≤ 3 40%cold rolled $\leq 13,5$ 40%cold rolled ≤ 3 40%cold rolled ≤ 3 40%cold rolled ≤ 10 60 J	FinishNominal thickness(mm)hot rolledEN 10051/EN ISO 9444-2cold rolledEN ISO 9445-2cold rolledEN ISO 9445-2min(trans)min(long)hot rolled $\leq 13,5$ cold rolled ≤ 3 down $< 10,5$ cold rolled ≤ 3 cold rolled ≤ 3 cold rolled ≤ 3 cold rolled < 3 cold rolled < 3 cold rolled $< 10,5$ cold rolled $< 10,60,J$ for the roll of	FinishNominal thickness(mm)Image: Constraint of the sector of

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Essential characteristics Weldability		Harmonised technical specification		
	hot rolled cold rolled	chemical composition		
Durability	hot rolled cold rolled	chemical composition		
Formability at room temperature	hot rolled cold rolled	see elongation		
		Values		
Chemical composition	hot rolled and cold rolled	$C \le 0,07$ $Si \le 1.00$ $Mn \le 2.00$ $P < 0,045$ $S \le 0,015$ $N \le 0,10$ $Cr: 16,5 - 18,5$ Ni: 10.0 - 13,0 Mo: 2.00 - 2,50		EN 10088-4
Regulated substance	hot rolled and cold rolled	NPD		

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 Joost Vantrappen - Head Customer Service Genk, 07/02/2014

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