



Declaration of Performance (DoP) : Nr.Gnk.05.01

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

Genk site / 1.4311 / Hot-Rolled / Cold-rolled

1.
Product-type : 1.4311
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

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E-mail: Stefaan.Maes@aperam.com
Website: <http://www.aperam.com/http://www.aperam.com/europe/news-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 :
TüV SÜD 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 :

Essential characteristics	Performance for 1.4311					Harmonised technical specification
	Finish	Nominal 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	270 Mpa			EN 10088-4
	cold rolled	≤8	290 Mpa			
Yield strength(Rp1%)	hot rolled	≤13,5	310 Mpa			
	cold rolled	≤8	320 Mpa			
Tensile strength	hot rolled	≤13,5	550 Mpa		750MPa	
	cold rolled	≤8	550 MPa		750MPa	
Elongation	hot rolled	<3	40%			
	hot rolled	3 ≤ th ≤ 13,5	40%			
	cold rolled	<3	40%			
	cold rolled	3 ≤ th ≤ 13,5	40%			
Impact strength	hot rolled	>10	60 J	100 J		
	cold rolled		NPD	NPD		

Essential characteristics	Performance for 1.4311			Harmonised technical specification
	hot rolled	cold rolled	chemical composition	
Weldability	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 ≤ 0,030	EN 10088-4
			Si ≤ 1.00	
			Mn ≤ 2.00	
			P < 0,045	
			S ≤ 0,015	
			N : 0,12 - 0,22	
			Cr: 17,5 - 19,5	
			Ni: 8,5- 11,5	
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

