



## Declaration of Performance ( DoP ) : Nr.Gnk.06.01

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

### **Genk site / 1.4541 / Hot-Rolled / Cold-rolled**

1.  
Product-type : 1.4541
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: <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 1.4541					Harmonised technical specification
	Finish	Nominal thickness(mm)				
Tolerances on dimensions and shape	hot rolled		EN 10051/EN ISO 9444-2			
	cold rolled		EN ISO 9445-2			
			<b>Values</b>			
			<b>min ( trans)</b>	<b>min ( long)</b>	<b>max</b>	
Yield strength(Rp 0,2%)	hot rolled	≤13,5	200 Mpa			EN 10088-4
	cold rolled	≤8	220 Mpa			
Yield strength(Rp1%)	hot rolled	≤13,5	240 Mpa			
	cold rolled	≤8	250 Mpa			
Tensile strength	hot rolled	≤13,5	520 Mpa		720MPa	
	cold rolled	≤8	520 MPa		720MPa	
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 1.4541				Harmonised technical specification
	Finish	Nominal thickness(mm)			
Weldability	hot rolled cold rolled		chemical composition		
Durability	hot rolled cold rolled		chemical composition		
Formability at room temperature	hot rolled cold rolled		see elongation		
			<b>Values</b>		
Chemical composition	hot rolled and cold rolled		C ≤ 0,080		EN 10088-4
			Si ≤1.00		
			Mn ≤ 2.00		
			P < 0,045		
			S ≤0,015		
			Ti: 5C - 0,7		
			Cr: 17.0 - 19.0		
	Ni: 9.0 - 12.0				
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

