



Declaration of performance (DoP) : Gue.05.01

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

Gueugnon site / 1.4521 / Cold-rolled

1.
Product-type: 1.4521
2.
Construction product: Cold-rolled stainless steel coils, plates, sheets according to EN 10088-4: 2009
3.
Intended use: products for internal and external use for construction purposes, building constructions or civil engineering
4.
Manufacturer:

Aperam Gueugnon
BP1
4 Place des Forges
71130 GUEUGNON
FRANCE

Tel: +33 (0)3 85 85 76 00
E-mail: gerard.ramoissenet@aperam.com
Website: <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 Gueugnon : "0036 - CPR - M - 042 - 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 1.4521			Harmonised technical specification
	Finish	Nominal thickness(mm)		
Tolerances on dimensions and shape	cold rolled		EN ISO 9445-2	
			Values for 1.4521	
			min(trans) min(long) max (trans)	
Yield strength (Rp 0,2%)	cold rolled	0,4 ≤ th ≤ 4	320 MPa 300MPa	EN 10088-4
Tensile strength	cold rolled	0,4 ≤ th ≤ 4	420 MPa 640MPa	EN 10088-4
Elongation	cold rolled	0,4 ≤ th ≤ 4	20% 20%	
Impact Strenght	cold rolled		NPD	EN 10088-4

Essential characteristics	Performance for 1.4521		Harmonised technical specification
Weldability	cold rolled	chemical composition	EN 10088-4
Durability	cold rolled	chemical composition	EN 10088-4
Formability at room temperature	cold rolled	see elongation	EN 10088-4
	Values (% mass) for 1.4521		
Chemical composition	cold rolled	C: ≤ 0,025 Si: ≤ 1,00 Mn: ≤ 1,00 P: ≤ 0,040 S: ≤ 0,015 N: ≤ 0,030 Cr: 17,0 - 20,0 Mo: 1,80 - 2,50 Ti: [4x(C+N) + 0,15] - 0,80 *	EN 10088-4 EN 10088-4 EN 10088-4 EN 10088-4 EN 10088-4 EN 10088-4 EN 10088-4 EN 10088-4
Regulated substance	Cold rolled	NPD	EN 10088-4

* Stabilization can be achieved by using the titanium and/or niobium

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
 Philippe Quere - Head SMI
 Gueugnon, 2014/02/07

P.QUERE

