



## Declaration of Performance ( DoP ) : Nr.Gnk.02.03

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

### Genk site / 1.4301 / Tears

1.  
Product-type : 1.4301
2.  
Construction product : Hot-rolled ( tears) 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 1.4301 |                       |                           |                  |            | Harmonised technical specification |
|---|------------------------|-----------------------|---------------------------|------------------|------------|------------------------------------|
|   | Finish                 | Nominal thickness(mm) |                           |                  |            |                                    |
| Tolerances on dimensions and shape          | tears 1M               |                       | EN ISO 9444-2 + DIN 59220 |                  |            |                                    |
|   |                        |                       |                           |                  |            |                                    |
|   |                        |                       | <b>Values</b>             |                  |            |                                    |
|   |                        |                       | <b>min(trans)</b>         | <b>min(long)</b> | <b>max</b> |                                    |
| Yield strength(Rp 0,2%)                     | tears 1M               | ≤13,5                 | 210 Mpa                   |                  |            | EN 10088-4                         |
| Yield strength(Rp1%)                        | tears 1M               | ≤13,5                 | 250 Mpa                   |                  |            |                                    |
| Tensile strength                            | tears 1M               | ≤13,5                 | 520 Mpa                   |                  | 720MPa     |                                    |
| Elongation                                  | tears 1M               | <3                    | 45%                       |                  |            |                                    |
|   | tears 1M               | 3 ≤ th ≤ 13,5         | 45%                       |                  |            |                                    |
| Impact strength                             | tears 1M               |                       | NPD                       | NPD              |            |                                    |
|   |                        |                       |                           |                  |            |                                    |
| Weldability                                 | tears 1M               |                       | chemical composition      |                  |            |                                    |
|   |                        |                       |                           |                  |            |                                    |
| Durability                                  | tears 1M               |                       | chemical composition      |                  |            |                                    |
|   |                        |                       |                           |                  |            |                                    |
| Formability at room temperature(elongation) | tears 1M               |                       |                           |                  |            |                                    |
|   |                        |                       |                           |                  |            |                                    |
|   |                        |                       | <b>Values</b>             |                  |            |                                    |
| Chemical composition                        | tears 1M               |                       | C ≤ 0,070                 |                  |            | EN 10088-4                         |
|   |                        |                       | Si ≤1.00                  |                  |            |                                    |
|   |                        |                       | Mn ≤ 2.00                 |                  |            |                                    |
|   |                        |                       | P < 0,045                 |                  |            |                                    |
|   |                        |                       | S ≤0,015                  |                  |            |                                    |
|   |                        |                       | N ≤ 0,10                  |                  |            |                                    |
|   |                        |                       | Cr: 17,5 - 19,5           |                  |            |                                    |
|   |                        |                       | Ni: 8.0 - 10,5            |                  |            |                                    |

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

