



## Declaration of Performance ( DoP ) : Nr.Gnk.20.01

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

### **Genk site / 1.4362 / Hot-Rolled / Cold-rolled**

1.  
Product-type : 1.4362
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 1.4362 |                       |                   |                  |            | Harmonised technical specification |
|------------------------------------|------------------------|-----------------------|-------------------|------------------|------------|------------------------------------|
|                                    | Finish                 | Nominal thickness(mm) |                   |                  |            |                                    |
| Tolerances on dimensions and shape | hot rolled             |                       | 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                 | 400 Mpa           |                  |            | EN 10088-4                         |
|                                    | cold rolled            | ≤8                    | 450 Mpa           |                  |            |                                    |
| Yield strength(Rp1%)               | hot rolled             | ≤13,5                 | NPD               |                  |            |                                    |
|                                    | cold rolled            | ≤8                    | NPD               |                  |            |                                    |
| Tensile strength                   | hot rolled             | ≤13,5                 | 650 Mpa           |                  | 850MPa     |                                    |
|                                    | cold rolled            | ≤8                    | 650 MPa           |                  | 850MPa     |                                    |
| Elongation                         | hot rolled             | <3                    | 20%               |                  |            |                                    |
|                                    | hot rolled             | 3 ≤ th ≤ 13,5         | 20%               |                  |            |                                    |
|                                    | cold rolled            | <3                    | 20%               |                  |            |                                    |
|                                    | cold rolled            | 3 ≤ th ≤ 13,5         | 20%               |                  |            |                                    |
| Impact strength                    | hot rolled             | >10                   | 60 J              | 100 J            |            |                                    |
|                                    | cold rolled            |                       | NPD               | NPD              |            |                                    |

| Essential characteristics       | Performance for 1.4362     |             |                      |  | Harmonised technical specification |
|---------------------------------|----------------------------|-------------|----------------------|--|------------------------------------|
|                                 | hot rolled                 | cold rolled |                      |  |                                    |
| Weldability                     | hot rolled                 |             | chemical composition |  |                                    |
|                                 | cold rolled                |             |                      |  |                                    |
| Durability                      | hot rolled                 |             | chemical composition |  |                                    |
|                                 | cold rolled                |             |                      |  |                                    |
| Formability at room temperature | hot rolled                 |             | see elongation       |  |                                    |
|                                 | cold rolled                |             |                      |  |                                    |
|                                 |                            |             |                      |  |                                    |
|                                 |                            |             | <b>Values</b>        |  |                                    |
| Chemical composition            | hot rolled and cold rolled |             | C < 0,030            |  | EN 10088-4                         |
|                                 |                            |             | Si ≤ 1.00            |  |                                    |
|                                 |                            |             | Mn ≤ 2.00            |  |                                    |
|                                 |                            |             | P < 0,035            |  |                                    |
|                                 |                            |             | S < 0,015            |  |                                    |
|                                 |                            |             | N < 0,05-0,20        |  |                                    |
|                                 |                            |             | Cr: 22.0 - 24.0      |  |                                    |
|                                 |                            |             | Ni: 3,5 - 5,5        |  |                                    |
|                                 |                            |             | Cu: 0,10 - 0,60      |  |                                    |
|                                 |                            |             | Mo: 0,10 - 0,60      |  |                                    |
| 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

