VTT EXPERT SERVICES OY

VERIFICATION CERTIFICATE

VTT-VA-00003-15

VTT Expert Services Oy has, in accordance with Chapter 3 of the Finnish Act on the Type Approval of Certain Construction Products (954/2012, amended with Act 1262/2014) and the provisions of the decree given by the Finnish Ministry of the Environment on the approval of certain construction products (555/2013, amended with decree 66/2015), granted the following verification certificate.

Lapuan Piristeel Oy, Teollisuustie 5, FI-62100 Lapua

Pisko Horizontal rail system

The verified performance levels for meeting the basic requirements are provided in Appendix 2.

The product description is provided in Appendix 3, and the conditions for product use are provided in Appendix 4.

The conformity has been assessed in accordance with the evaluation criteria published by the Finnish Ministry of the Environment and provided in the document “Kattoturvatuotteet - Kattopollarit, talotikkaat, lumiesteet ja katon vaakaturvakiskot” (Roof safety products – roof bollards, wall ladders, snow guards, and horizontal roof safety rails). The system used for the evaluation and verification of the permanence of the performance level is 2+.

The construction product and the related package and documents must be equipped with the verification certificate mark concerning this certificate.
The verified product properties must be presented in connection with the mark in accordance with Appendix 5.

This verification certificate has been granted on March 1, 2016 and it is valid until February 28, 2021, at the latest. The conditions for validity are provided in Appendix 1.
The validity of the certificate can be checked via the www.vtt-todistus.fi service.

Espoo 1.3.2016

Tiina Ala-Outinen
Business Manager

Annamaija Naula-Iltanen
Lead assessor

APPENDICES
1. Conditions for Validity
2. Verified Basic Requirements for the Product
3. Product Description Provided by the Manufacturer
4. Conditions for Product Use
5. Marking of the Verified Product

VTT EXPERT SERVICES OY
PL 1001, 02044 VTT
Tel. 020 722 111
info.sertifiointi@vtt.fi
www.vttexpertservices.fi

FINAS
Finnish Accreditation Service
S017 (EN ISO/IEC 17065)

Appendix 1: Conditions for Validity

The verification certificate is granted for a fixed period, for no more than five years at a time. If necessary, the approved body may require a periodic review to ensure that the properties of the product correspond with the properties reported by the manufacturer. Products that have been inspected on a consignment-specific basis may only be commissioned after the approved body has issued the verification certificate concerning the consignment in question. (954/2012, section 14)

The verification certificate must be withdrawn if the construction product does not meet the essential technical requirements stipulated in the Finnish Land Use and Building Act or the provisions adopted under it. If the product is included in the scope of application of the CE marking system, the verification certificate expires. (954/2012, section 14)

In addition, the utilization of the verification certificate also requires internal production-related quality control and testing maintained by the manufacturer. The entity responsible for quality control verification verifies the internal quality control by carrying out the related initial inspection, monitoring the quality control continuously, and evaluating and approving the quality control. (954/2012, section 12)

The approved body and entity responsible for quality control verification must inform the manufacturer in writing of any reductions in product quality or safety detected during quality control and demand the manufacturer to modify the construction product within a fixed period to correspond with the verification certificate. (555/1213, section 8)

The approved body that issues verification certificates must withdraw the verification certificate if the importer, manufacturer, or authorized representative does not remedy the deficiencies detected during quality control verification. (954/2012, section 12)

The verification certificate must be withdrawn without delay if the Finnish Safety and Chemicals Agency (Tukes) has prohibited the use of the construction product or ordered the importer, manufacturer, or authorized representative to take measures to remove the product from the market. (954/2012, section 12)

The verification certificate is a public document. A record, which is available via the www.vtt-todistus.fi service maintained by VTT Expert Services Oy, is kept of the certificates.

Before the verification certificate can be issued, the manufacturer must report the entity responsible for quality control verification to the approved body.

The holder of the verification certificate is responsible for product quality and continuous quality control. When granting this verification certificate, VTT Expert Services Oy does not assume any liability for personal injuries or other damages that are caused by the direct or indirect use of the product related to this verification certificate.

The use of the names “VTT Expert Services Oy” or “VTT” (VTT Technical Research Centre of Finland) in any other form in advertisements, as well as the partial distribution of this verification certificate, is only permitted with the written authorization of VTT Expert Services Oy.

Appendix 2: Verified Basic Requirements for the Product

The verified performance levels for meeting the basic product requirements are as described in the table below. As the provided requirements are minimum requirements, it is permissible to use materials with a higher performance level.

1. Static load-bearing capacity	No breakage with load > 12 kN (System equipped with spring absorber 0,7 kN force, max 10mm deformation in damping components.)
2. Dynamic load-bearing capacity	Must withstand the load caused by the falling object 100/300 kg.
3. Corrosion resistance	Corrosion resistance class C3 medium

Appendix 3: Product Description Provided by the Manufacturer and Component Materials

The Pisko horizontal rail system is a steel, hot-dip galvanized rigid rail made by cold forming. The rail carries a carriage made of stainless steel, brass and POM-C (polyacetal). The horizontal rail is made of sheet metal.

The purpose of the system is to work as a support for the user and to prevent falls (SFS-EN 363). The Pisko horizontal rail system has been designed for use on the Pisko roof walkways if fastening is possible on the basis of the installation instructions. The Pisko horizontal carriage system can also be used by attaching it to other structures, if the fastening interval in the installation instruction ensures strengths determined in standard EN 795:2012.

The materials used in the manufacture and installation of the horizontal rail system are shown in the drawings and in the use and installation manual.

Figure 3-1. Pisko horizontal rail system

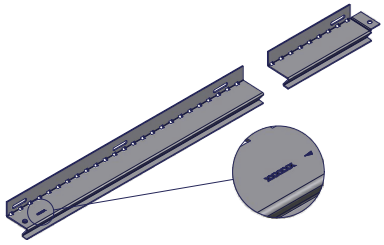

Figure 3-1. Horizontal rail

Figure 3-3. Horizontal carriage

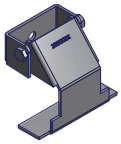

Figure 3-4. Releasable carriage stopper

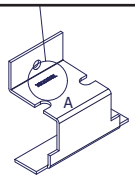

Figure 3-5. Fixed carriage stopper

Table 3-6. Materials Used in the Product

No	Product	Material	Standard
1.	Screws	Hot-dip galvanized, M8-20	DIN 933
2.	Nuts	Hot-dip galvanized, M8	DIN 934
3.	Washers	Hot-dip galvanized, M8	DIN 440
4.	Horizontal carriage body	Sheet metal, stainless steel	EN14301
5.	Collets	Brass	
6.	Vertical roller	POM-C	
7.	Roller, model 2	POM-C	
8.	Releasable carriage stopper, part 1	Sheet metal, DX51D + Z275	SFS-EN 10346
9	Releasable carriage stopper, part 2	Sheet metal, DX51D + Z275	
10.	Fixed carriage stopper	Sheet metal, DX51D + Z275	
11.	Horizontal rail	Sheet metal, S320GD + Z275	

Appendix 4: Conditions for Product Use

Design

The horizontal rail system required for the installation site are to be designed in accordance with the following designing, installation, operating, and maintenance instructions provided by the manufacturer: ”Planning guidelines of the Pisko horizontal safety rail system” and ”instruction for installation of the Pisko horizontal safety rail system”.

Manufacture

The manufacturer’s internal production and quality control instructions are to be followed in the different manufacturing stages.

Delivery and On-Site Storage

The instructions drawn up by the manufacturer are to be followed during the transportation and storage of the products.

Painted surfaces are to be protected against scratches for the duration of the installation.

Use

The installation, use and maintenance of the horizontal rail system shall be carried out in accordance with the manufacturer´s instructions ”Instruction for installation of the Pisko horzontal safety rail system”.

Appendix 5: Marking of the Verified Product

The approved body must equip the verification certificate with a mark that can be used for distinguishing the verification certificate from other voluntary certificates granted by the approved body. The manufacturer must equip the construction product and the related package and documents (555/2013, section 7) with the mark.

The Pisko horizontal rail system is to be marked with a verification mark similar to the one in the image. The numerical identifier that will be included in the mark is presented at the top of this verification certificate. The verification certificate mark will be delivered to the client in a separate file.

Installation and maintenance instructions, as well as the verification certificate, are to be delivered in connection with the product.

	Lapuan Piristeel Oy Teollisuustie 5 FI-62100 Lapua
Product	Pisko horizontal rail system
Intended Purpose	Roof safety product – A roof horizontal safety rail
Performance levels	The basic requirement level of the criteria:
Static load-bearing capacity	No breakage with load > 12 kN (System equipped with spring absorber 0,7 kN force, max 10mm deformation in damping components.)
Dynamic load-bearing capacity	Must withstand the load caused by the falling object 100/300 kg.
Corrosion resistance	Corrosion resistance class C3 medium

This is a translation of the original document.