

Textilní zkušební ústav

**TEXTILNÍ ZKUŠEBNÍ ÚSTAV, s.p.**  
**(TEXTILE TESTING INSTITUTE)**

CERTIFICATION BODY FOR THE CERTIFICATION OF PRODUCTS No. 3044  
ACCREDITED BY CAI ACCORDING TO EN ISO/IEC 17065  
VÁCLAVSKÁ 6, 658 41 BRNO, CZECH REPUBLIC

## FINAL PROTOCOL

No.: COV/17/041

Producer: **Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic**  
IN: **27465021**

Product: **DUAL type 1009**  
**Heterogeneous vinyl floor covering**  
material composition: polyvinylchloride

Evaluated according to: 

- **EN ISO 10582:2012 Resilient floor coverings – Heterogeneous polyvinylchloride floor coverings – Specification**

Classification according to: 

- **EN ISO 10874:2012 Resilient, textile and laminate floor coverings – Classification**

Evaluation conclusion: Evaluated type of product meets the requirements of the standard mentioned above. The product is classified according to level of use to classes:

- **21, 22, 23, 31, 32, 33, 34, 41, 42, 43 - DUAL type 1009, thickness 2,0 mm**

Terms of protocol application:


This Protocol applies for the product mentioned above and can be used only for this product. The Protocol may not be published but entire. The customer can publish a part of the Protocol only if approved by the Certification Body for the certification of products No. 3044.

Contract No. of Inspection Activity: COV/17/03

Number of pages: 5

Date of protocol issue: 30<sup>th</sup> January 2017

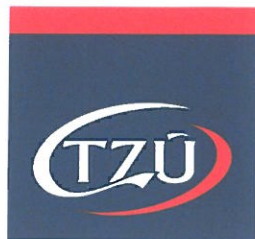
Protocol issued by:

  
Jitka Paulová  
Certification Body

Reviewed:

  
Ing. Svatava Horácková  
Head of Certification Body





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## 1. GENERAL DATA

### 1.1 Data on the customer

Customer is the producer:

Fatra, a.s., třída Tomáše Bati 1541, 763 61 Napajedla, Czech Republic.

IN: 27465021

### 1.2 Data on the product

**1.2.1 DUAL type 1009** is a heterogeneous vinyl floor covering, created from three layers. Middle layer is dyed through or dyed through with marbling. Wear layer is reinforced and transparent. Top side is with PUR protective layer for easy care. Floor covering is produced in sheets wound on roll. It is declared for fully glued installation. The sheets are welded with the welding rod Novoplast or by cold welding. DUAL is made in different colour designs.

#### Construction parameters of the product (declaration of producer):

Material composition:	polyvinylchloride
Total thickness:	2,0 mm (+0,13; -0,10)
Thickness of wear layer:	0,8 mm ( $\pm 0,1$ )
Total mass per unit area:	2,890 kg.m <sup>-2</sup> (+13%; -10%)
Density of wear layer:	1280 kg.m <sup>-3</sup> ( $\pm 50$ )
Roll width:	1500 mm (+10; -0)

The product is specified in detail in the standard of producer PND-5-249-97, edition No. 9.

### 1.3 Data on the certification procedure

Assessment of product is carried out according to certification scheme No. 1 according to EN ISO/IEC 17067. It means type testing and evaluation.

## 2. VERIFICATION OF PRODUCT CONFORMITY WITH REQUIREMENTS OF THE STANDARD

### 2.1 Evaluated characteristics and classification of product

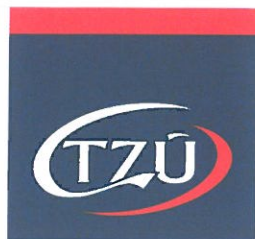
Evaluated characteristics are determined by the standard:

- EN ISO 10582 Resilient floor coverings – Heterogeneous polyvinylchloride floor coverings - Specification (art. 4.1, art. 4.2, art. 5).

Classification of product and symbols for labelling according to levels of use:

- EN ISO 10874 Resilient, textile and laminate floor coverings – Classification.





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## 2.2 Testing results

Test of colour fastness to artificial light was performed on colour design (in the table the lowest result is mentioned).

According to EN ISO 10582 (art. 4.1, table 1) the product is declared as “type I” on the base of material composition of wear layer (declaration of producer).

Test results compared with the requirements of the standard EN ISO 10582 are specified in Tables No. 1 and No. 2.

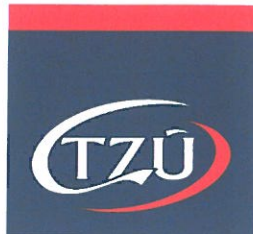
Table No. 1: Evaluation of test results - **General requirements** (EN ISO 10582, art. 4.2., table 2)

Characteristic	Testing method	Measuring unit	Requirement	Value identified	Evaluation
Roll form - length - width	ISO 24341	m mm	min. 12 1500 - 1510	12 1508	D S
Overall thickness - average value - individual values	ISO 24346	mm	2,0 (+0,13; -0,10) ±0,15	1,94 1,96 - 1,91	S S
Total mass per unit area - average value	ISO 23997	g.m <sup>-2</sup>	2890 (+13%; -10%)	2880 (-0,3%)	S
Dimensional stability after exposure to heat Sheets and tiles (intended for welding) - machine direct / cross direct	ISO 23999	%	≤ 0,40	- 0,1 / - 0,1	S
Curling after exposure to heat Sheets and tiles (intended for heat welding)	ISO 23999	mm	≤ 8	2,0	S
Flexibility	ISO 24344 method A	-	No cracking in using a 20 mm mandrel	No cracking in using a 20 mm mandrel	S
Residual indentation - average value	ISO 24343-1	mm	≤ 0,1	0,04	S
Effect of castor chair	ISO 4918	number of cycles	25 000 without damage	25 000 without damage	S
Colour fastness to artificial light	EN ISO 105-B02	grade	min. 6	7*	S

Legend: S - Satisfy D - Declaration of producer \* - the lowest value identified on tested colour samples







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Table No. 2: Evaluation of test results - **Classification requirements for level of use (minimal)**  
(EN ISO 10582, art. 5, table 3 - for products type I)

Characteristic	Testing method	Measuring unit	Requirement	Value identified	Evaluation
Overall thickness	ISO 24346	mm	1,0 – 2,0 Class 21, 22, 23, 31, 32, 33, 34, 41, 42, 43	1,94*	S
Thickness of wear layer	ISO 24340	mm	0,15 – 0,70 Class 21, 22, 23, 31, 32, 33, 34, 41, 42, 43	0,80	D
Seam strength	EN 684	N	Class 21, 22, 23 - no requirement	554,7 508,6	S S
- average value			Class 31, 32, 33, 34, 41, 42, 43 ≥ 240		
- individual values			≥ 180		

Legend: S - Satisfy

D - Declaration of producer

\* - in the tolerance (-0,10 mm)

### 2.3 Test results evaluation

All identified values on the tested samples are in compliance with the requirements of the standard **EN ISO 10582 Resilient floor coverings – Heterogeneous polyvinylchloride floor coverings – Specification** regarding:

- Identification requirements, according to composition of wear layer (art. 4.1, table 1)
- General requirements (art. 4.2, table 2)
- Classification requirements for level of use (art. 5, table 3).

### 2.4 Classification according to level of use

The product is classified according to classification scheme of the standard **EN ISO 10874 Resilient, textile and laminate floor coverings – Classification**:

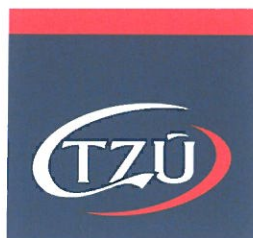
- **DUAL type 1009, thickness 2,0 mm** complies with the requirements of **domestic level (class 21, 22, 23), commercial level (class 31, 32, 33, 34) and light industry level (class 41, 42, 43)**.

## 3. CONCLUSION

**Heterogeneous floor covering DUAL type 1009 complies with the basic requirements of standard EN ISO 10582.**

**This product is classified for level of use according to standard EN ISO 10874. This product can be marked by symbols for use.**





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#### 4. DOCUMENTS APPLIED FOR THIS FINAL PROTOCOL

1. Application for certification No. COV/17/041 dated 10<sup>th</sup> January 2017.
2. Standards mentioned in this Final Protocol.
3. Standards of the producer for evaluated product PND 5-249-97 (edition No. 9).
4. Test Protocol No. AZL 17/0088 dated 30<sup>th</sup> January 2017 issued by the accredited testing laboratory of TZÚ Brno

