

Environmental Product Declaration

according to EN 15804+A1 and ISO 14025

Clay Roofing Tiles

Stodo 12

Samba 11

Brněnka 14

Hranice 11

Figaro 11

Francouzská 14

Falcovka 11

*and other assortment from
Stod and Hranice Tondach
production sites*

Approval number: 3013EPD-22-0283

Approval date: 5. 10. 2022


Validity until: 4. 10. 2027

Revision: 0



1. General information

Manufacturing company	Wienerberger s.r.o. Registration No.: 00015253 VAT No.: CZ00015253
Production site	3275-Hranice, Bělotínská 722, 753 01 Hranice, Czech Republic 3277-Stod, Stříbrská 369, 333 01 Stod, Czech Republic
Address	Plachého 388/28 370 01 České Budějovice 1 Czech Republic
Contacts	Phone: +420 383 826 111 E-mail: info@wienerberger.cz Web: https://wienerberger.cz/

EPD Program	National Environmental Labelling Program For more information see www.cenia.cz  CENIA, Czech Environmental Information Agency, Vršovická 1442/65, Prague 10, 100 10 Czech Republic
Approval number	3013EPD-22-0283
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PCR identification	EN 15804:2012+A1:2013 Sustainability of construction works – Environmental product declarations (Core rules for the product category of construction products)
LCA prepared by	Luboš Nobilis, ECO trend s.r.o., Na Dolinách 128, 140 00 Prague 4, Czech Republic, nobilis@ecotrend.cz

CEN standard EN 15804+A1 serves as the core PCR

Independent verification of the declaration and data, according to ISO 14025

Internal

External

Third party verifier:

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Head of Certification Body for EPD

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About company

Wienerberger s.r.o. is a part of the Wienerberger AG group, which is the world's largest manufacturer of clay blocks and Europe's largest manufacturer of clay tiles. The company's headquarters is in České Budějovice 1, Plachého 388/28, PSČ 370 01, Czech Republic. The company is registered in the Business Register kept by the Regional Court in České Budějovice, Section C, rider 27563 dated 29 December 1990.

- Business Reg. N° 00015253
- VAT No. CZ00015253
- Phone: +420 383 826 111
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- Website: <http://www.wienerberger.cz>

In its two manufacturing plants /roof tile factories, Wienerberger s.r.o. makes a complex portfolio of Tondach roof tile products, which consists of up to ten types of field tiles and their ceramic accessories (ridge tiles, verge tiles, ventilation tiles etc.).

The headquarters of the company is located in the historical centre of České Budějovice. The Tondach roof tile product manufacturing plants are situated at Hranice (in Moravia) and Stod (near Pilsen). Both places have long time tradition of ceramic tile making. Hranice plant went through three big phases of modernization in last 25 years to be modern production facility with high capacity. Stod plant went through extensive modernization too and they are only two ceramic tiles plants in Czech Republic area. Both manufacturing plants are equipped with a stilling station used to process the fumes at the outlet of the manufacturing process and using the waste heat from the kiln for drying process.

2. Product

2.1 UN CPC code

37320 Refractory bricks, blocks, tiles and similar refractory ceramic constructional goods, other than those of siliceous earths.

2.2 Product description

Ceramic roof tiles belong to the group of fired clay materials with great service life (100 years). The tiles are made of high-quality ceramic clay with durability against weather conditions. This EPD concerns the average roof tiles produced at 2 production plants in the Czech Republic – Hranice and Stod. They represent tiles and relevant ceramic accessories for 4 groups of basic shapes – Modern, Universal, Classic and Historic. They are produced in 3 types of surface - natural red roof tiles, more matt colours as engobed, and glossy glazed colours. This surface is solid part of product via ceramic bonds during firing process.

2.3 Application

These tiles are used for covering of pitched roofs (from the slope of 12°).

2.4 Technical data

Ceramic roof tiles are produced and tested according EN 1304:2005. Declared characteristics are mechanical resistance, external fire performance, reaction to fire, water impermeability, dimensions and dimensional tolerances, durability (frost resistance) and release of regulated substances.



Plant Hranice

Product name	Save roof pitch [°]	Minimal roof pitch [°]	Covering length [mm]	Covering width [mm]	Weight per piece [kg]	Pieces per m ²	Tonne per m ²
Figaro 11	30	20	340 - 385	238	3,7	10,9	0,040
Samba 11	22	12	355 - 380	228	3,6	11,5	0,041
Brněnka 14	30	20	280 - 340	204	2,9	14,5	0,042
Hranice 11	30	20	340 - 400	232	3,6	10,8	0,039
Francouzská 14	30	20	400	205	2,9	14,6	0,042

Plant Stod

Product name	Save roof pitch [°]	Minimal roof pitch [°]	Covering length [mm]	Covering width [mm]	Weight per piece [kg]	Pieces per m ²	Tonne per m ²
Stodo 12	30 (25)	20	232 - 363	230	3,5	12	0,042
Falcovka 11	30	20	390	234	3,6	11,1	0,040
Malý prejz	40	35	320	74 - 121 (201)	1,2 (2,1)	32	0,053
Velký prejz	40	35	350	101 - 142 (240)	1,6 (2,7)	24	0,052

2.5 Base materials / Ancillary materials

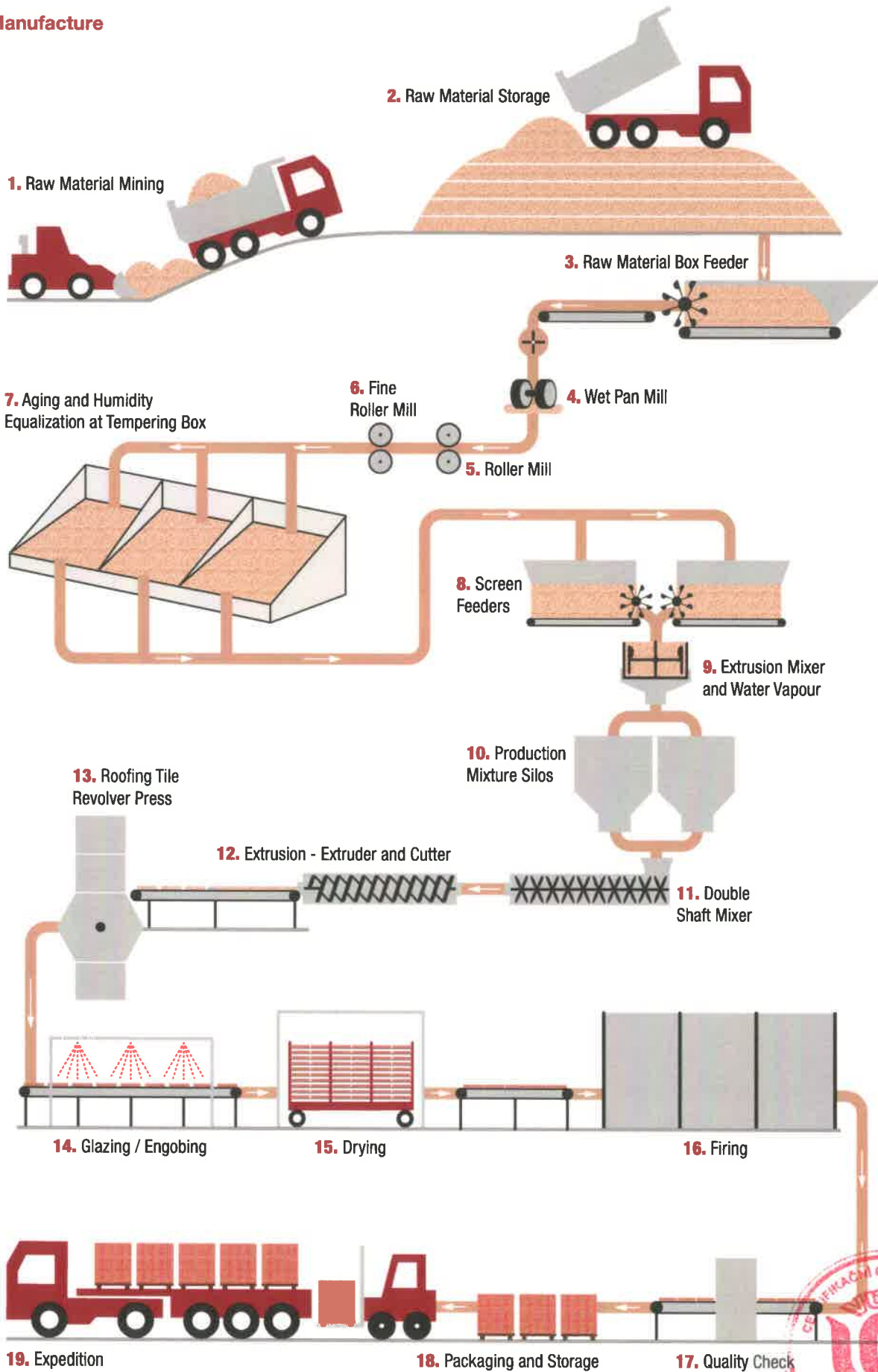
Product does not contain Substance of Very High Concern.

Products content declaration

Materials / components	Substances	Stod	Hranice
Clay	-	99 %	99 %
Gypsum	-	0,002 %	0,003 %
Sand	-	-	0,002 %
Additives	-	0,002 %	0,00005 %
Engoba (only for engobed products)	Clay, frits, pigments	0,002 %	0,004 %
Glaze (only for glazed products)	Clay, frits, pigments	0,005 %	0,007 %



2.6 Manufacture





1 | *Tempering box*



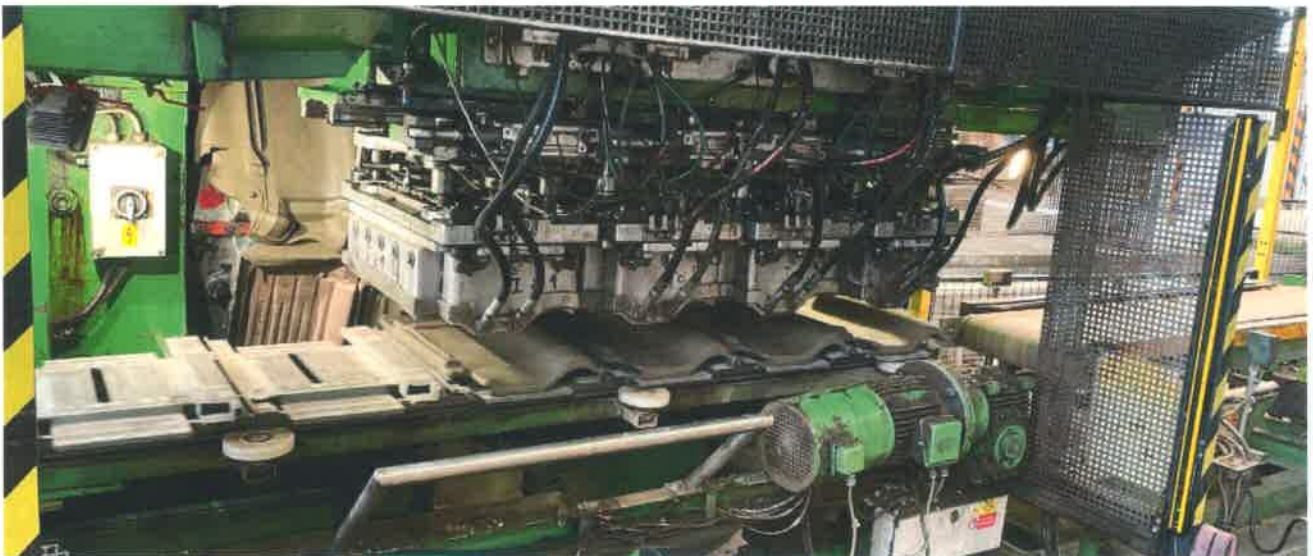
2 | *Production mixture silo*



3 | Extruder - double shaft mixer - screen feeder



4 | Revolver press (input)



5 | Revolver press (output)



6 | Glazing, engobing



7 | Loading kiln cars



8 | Kiln



9 | Packing, expedition



10 | Production plant Hranice