

Technical Specifications

Category: Production line

Equipment for the production of building boards from textile waste

♻️ Input materials:	clothing and industrial textile waste – Cotton, polyacrylic, linen, hemp, polyester, polyamide, viscose, ...
♻️ End materials:	thermal and acoustic insulation, geotextiles, retention plates, automotive products, ...
♻️ Production capacity:	5 000–10 000t/year of processed material
♻️ Min. space size:	3 500m ² production + storage areas
♻️ Min. ceiling height:	6–8m
♻️ Required floor type:	Concrete (min. load 1 000kg/m ²)
♻️ Distribution network:	230/400V–50Hz
♻️ Energy intensity of operation:	min. 370–410A/required capacity of the entire device - 2MW (electricity+gas)
♻️ Minimum number of persons per operator:	8 people/shift/complete
♻️ Delivery time:	6–12 months
♻️ Price according to specification:	from 3 000 000 EUR
Features and benefits:	<ul style="list-style-type: none">• Environmental and energy efficient technologies.• It is a unique technology for processing textile waste . The resulting products have a wide range of applications, in the construction industry, automotive industry, linear structures, rolling stock, retention, green roofs, ...• The final configuration of the line must be adapted to the space for the placement of the line and the customer's requirements, with emphasis on the originality of the project.

Economics - return on investment

Simple overview

Input materials	45%
Energy for operation	20%
Service costs	20%
Depreciation	10%
Other costs	5%
Line operation	Line operation - two shifts / 5 days/ week, min. 2 types of product, - payback - 4 - 5 years.



AQUADESK

Retention and vegetation board



1021 - CPR - 040 / 2018



Characteristics: Thermobonded board for designing of green roof compositions

Material content: Recycled polyester

Certification: The product is certified according to Standard EN 13252:2016
Quality Management System ISO 9001, ISO 14001, ISO and ISO 50001

Follow-up documentation: DoP: AQUADESK 2000 - TL20 - 2018-1 and AQUADESK 3000 - TL30 - 2018-1

Properties:



EASY
INSTALLATION



QUICK
INSTALLATION



PROTECTION OF
HYDRO INSULATION



MADE FROM
RECYCLED
MATERIALS



ACOUSTIC AND
THERMO INSULATION



MADE IN
CZECH REPUBLIC

Function:



WATER
RETENTION



DRAINAGE



PROTECTION

Regular use: Retention, drainage and vegetation layers on green roofs.



EXTENSIVE FLAT
GREEN ROOFS



EXTENSIVE SLOPE
GREEN ROOFS

Material specification sheet

Date of Issue: 01. 01. 2020

No.: N-001-4

ENVIZOL TB OH 50

Thermal and acoustic insulation board



Characteristics: Nonwoven thermally bonded textile, made by airlay technology, for thermal and acoustic insulation in construction industry.

Material content: Recycled polyester fibers and binder polyester bicomponent fibers.

Colour: Grey

Properties:

Regular Use: Thermal and acoustic insulation for the exterior load-bearing walls of prefabricated buildings, internal partitions, trusses and ceiling structures. Interior acoustic and thermal insulation for suspended ceilings and lamellar design panels.

Material specification

Date of Issue: 5.5.2023

Quality Management System ISO 9001, ISO 14001, ISO 45001 and ISO 50001

ENVIZOL VS/TB FR

Thermal and acoustic insulation board



Characteristics: Nonwoven thermally bonded textile, made by airlay technology, for thermal and acoustic insulation applications in house appliances and equipments.

Material content: 50% VSS FR
30% rec. PES
20% Bico

Colour: Multicolour

Fire classification: PP-03.04.75 (UL 94, Ed.6 - čl.7), PP-03.04.75 (UL 94, Ed.6 - čl.8)

Properties:



Regular Use: Acoustic and thermal insulation for washing machines, dryers, dishwashers and refrigerators



Material Specification

Date of Issue: 9.5.2023

Quality Management System ISO 9001, ISO 14001, ISO 45001 and ISO 50001

GEOSORP

Sorption textile



1021 - CPR – 100-1/17



STANDARD
100

PG035/21755B
(OEFT)



- Characteristic:** Nonwoven textile mechanically bonded by needle punching
Material content: 100% Polypropylen
Color: Multicolor
Weight: 300 - 500 g/m²
Maximum width: 6,5 m
Function:



SEPARATION



FILTRATION



REINFORCEMENT



SORPTION

Use:

ROADLAND OTHER
TRAFFICED AREAS



EN 13247:2016

RAILWAYS



EN 13250:2016

LANDFILL, POLYMER/LINE,
AND RETAINING WALLS



EN 13251:2016

DRAINAGE
SYSTEMS



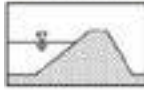
EN 13252:2016

EROSION
CONTROL



EN 13253:2016

RESERVOIRS AND DAMS



EN 13254:2016

CANALS



EN 13255:2016

TUNNELS AND
UNDERGROUND STRUCTURES



EN 13256:2016

SOLID WASTE DISPOSALS



EN 13257:2016

LIQUID WASTE
CONTAINMENT



EN 13265:2016

Material specification sheet

Date: 1.4.2023

Quality Management System ISO 9001, ISO 14001, ISO 45001 a ISO 50001