Troldtekt® products

Disposal guidelines

Troldtekt®
Natural acoustic solutions

RAW MATERIALS AND PRODUCTION PROCESS

Troldtekt is made from wood and cement. The wood comes from Danish forests and is a renewable and CO2-neutral resource. Furthermore, the forests are an environmentimproving element of nature. Troldtekt has achieved a PEFC-certification, which garantees that the wood used for the production of Troldtekt, can be traced back to sustainable forestry. The cement is from the Danish subsoil and is produced by Aalborg Portland. The cement production is carried out with consideration for the environment, and Aalborg Portland is, among other things, ISO 14001-certified and EMAS-registered. The production of Troldtekt is carried out in a closed system without any wastewater discharge. The production is characterised by an extremely environment-friendly use of raw materials, minimising external environmental impact. Approx. 95 per cent of the factory's energy consumption for heating purposes is based on CO2-neutral fuel from wood waste and bark from the production of Troldtekt.

PRODUCT COMPOSITION

		UNIT	NATURAL GREY	NATURAL WOOD
Loss on drying by 105 °C		%	10,7	11,3
Ash content		%	50,6	51,6
Lower effective heating value		kcal/kg	935	1145
Chloride		%	0,227	0,175
Arsenic	As	mg/kg	Quantity not measurable	Quantity not measurable
Cadmium	Cd	mg/kg	Quantity not measurable	Quantity not measurable
Chrome	Cr	mg/kg	26	Quantity not measurable
Copper	Cu	mg/kg	67	Quantity not measurable
Manganese	Mn	mg/kg	105	166
Nickel	Ni	mg/kg	Quantity not measurable	28
Lead	Pb	mg/kg	Quantity not measurable	Quantity not measurable
Antimony	Sb	mg/kg	Quantity not measurable	Quantity not measurable
Vanadium	V	mg/kg	34	103
Zinc	Zn	mg/kg	99	Quantity not measurable
Mercury	Hg	mg/kg	Quantity not measurable	Quantity not measurable
Phosphorus	P	mg/kg	554	945
Aluminium oxide	Al_2O_3	%	2,54	0,94
Calcium oxide	CaO	%	33,65	33,90
Iron oxide	Fe_2O_3	%	2,03	0,19
Potassium oxide	K_2O	%	0,07	0,05
Sodium oxide	Na_2O	%	0,13	0,10
Magnesium oxide	MgO	%	0,48	0,29
Silicon oxide	SiO_2	%	10,55	12,67
Titanium oxide	TiO_2	%	0,11	0,02
Sulphur trioxide	SO_3	%	1,70	1,07

Source CBL, Aalborg Portland 10.09.2008.

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DISPOSAL OPTIONS

It is important to sort Troldtekt waste so that screws, nails and other materials are not mixed with the cement-bonded wood wool waste. It is also important to discard any residual attached mineral wool, roofing paper and similar. We recommend that you deposit mineral wool waste at a waste disposal site. Large, regular and sorted volumes of Troldtekt waste can be classified as a homogenous by-product.

COMPOSTING

To the extent possible, we recommend depositing Troldtekt waste for composting at the local waste disposal sites. The sorted Troldtekt waste is suitable for composting processes because the high proportion of lime (CaO: approx. 34% by weight VS) contributes to accelerating the composting process, and the fibre structure improves the compost quality. The constituents of the Troldtekt waste enrich the compost and widen the application of the compost.

INCINERATION

Troldtekt waste can also be burned in incinirators at waste disposal sites and here the material contributes to combustion (net calorific value approx. 1,000 kcal/kg VS).

RETURN TO SOIL

The waste products generated from the Troldtekt production – primarily production waste such as cut-offs, sanding dust, discarded panel pieces and similar – are sent to an environmental facility. They receive process and reprocess organic residual products into soil improvers. The facility only receives residual products which have obvious soil-improving or composting properties. After processing in the composting facility, the products are sold as highly value-added soil improvers for e.g. maintenance and establishment of grasslands, parks etc.

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