

TRIMO



INSTRUCTIONS FOR THE TREATMENT OF WASTE TRIMOTHERM FTV AND SNV PANELS INSULATED WITH MINERAL WOOL AND PACKING MATERIALS

1. INTRODUCTION

Trimotherm FTV and SNV wall panels consist of a mineral wool core laminated with a foamed polyurethane adhesive and thin galvanized steel interior and exterior sheets. Panel joints for the SNV are made up of an overlap of the exterior sheet metal and a tongue and groove on the interior sheet metal. The panel joints for the FTV panel profiles are a double tongue and groove joint.

When the contact of two panels, outer metal sheet SNV first panel covers the trapezoidal cylinder of the second panel. Contact FTV two panels consisting of a double tongue and groove.

1.1. The composition of the product with packing (protective) foil

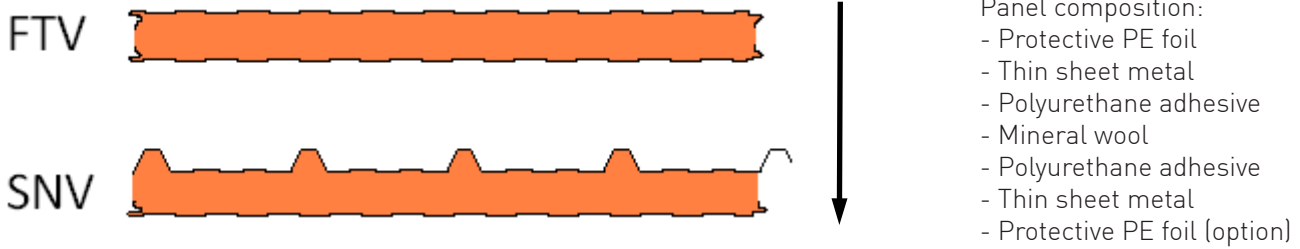


Fig 1: Trimotherm panels (FTV and SNV)

1.2. The composition of packaging

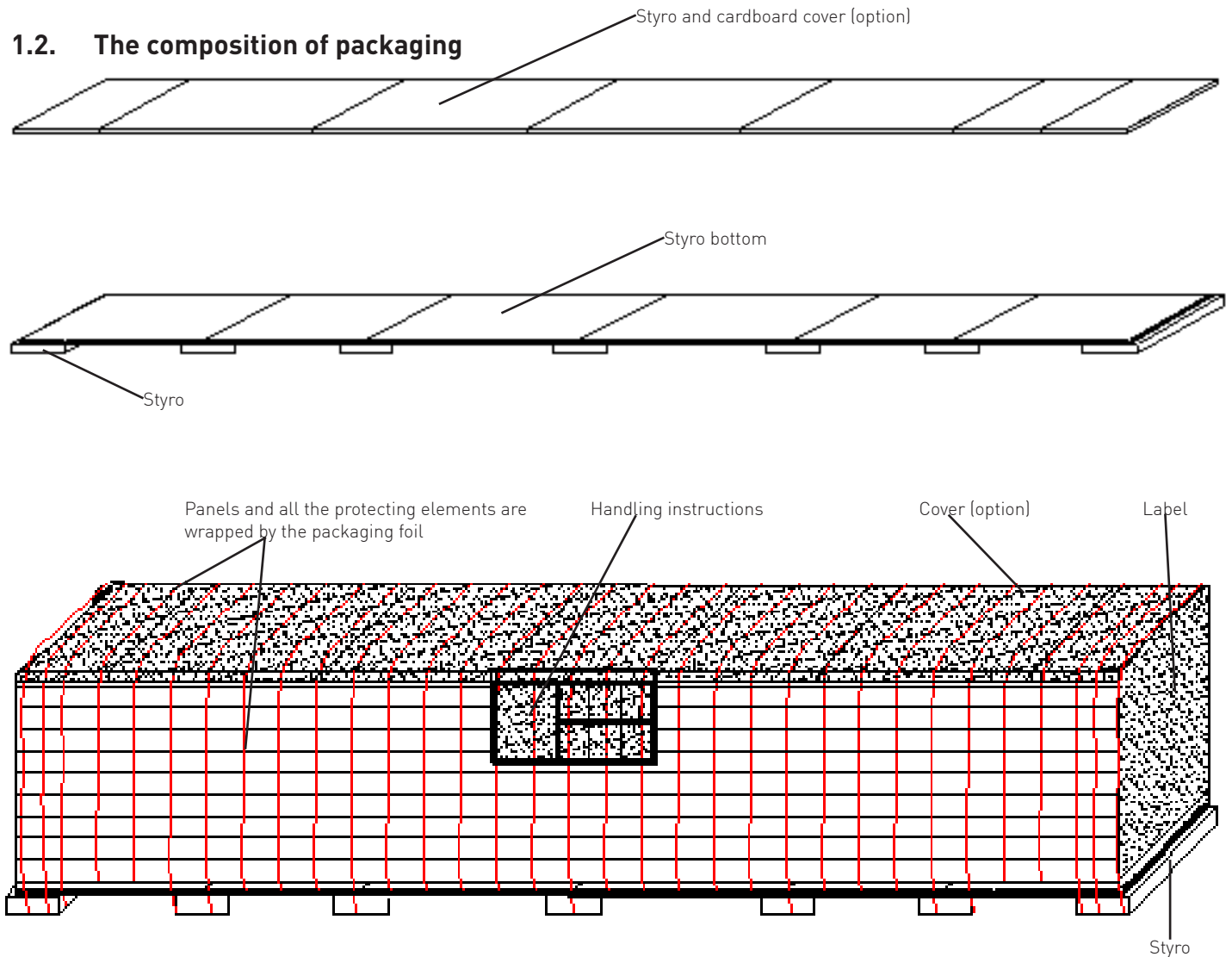


Fig. 2: Packaging elements

2. MANAGEMENT OF WASTE PANELS AND PACKAGING MATERIALS

2.1. Process of separation

Waste panels can exist as many different forms. The waste could be the result of panel cutting, remains, panels damaged as a result of improper site handling, or the constructing or deconstructing of the building. Panel remains should be separated into plies and the individual materials separated.

Once the panels have been separated into layers, the thin sheet metal should be mechanically separated from the mineral wool. Usually, after the mechanical separation, some mineral wool remains, this may have to be removed mechanically. All Trimotherm panels should be separated using this process.

After panels are separated to layers, you are left with two main waste materials :

- Waste sheet metal and
- Waste mineral wool.

2.2. Process of separate collection

While using Trimotherm panels, the separate collection of raw materials at the place of origin should be considered. Therefore, packaging materials are separated on-site. For ordinary packaging systems, the following types of packaging materials are present:

- PE foil, which protect sheet surface from mechanical damage at mounting stage,
- PE foil, a weather-protection panel packaging,
- Styro bottoms, that protect packet and enable load manipulation during loading and unloading,
- Cardboard, which protects the package during handling,
- Wooden cases (for flashing elements and screws),

For smaller quantities, the panel remains are mechanically separated on-site, however, for larger quantities, the separation processes are performed by authorised waste handling organisations.

2.3. Handing over secondary raw materials and waste to authorised organisations

Coated galvanised sheet metal

Thin coated and galvanised sheet metal should be handed over to the authorised organisations equipped for collecting secondary raw materials. Partial quantities of PUR adhesive, remaining on the sheet metal after separation, should be considered as well.

According to the rules and ecological processes for remelting different metal wastes, the smoke gases should be cleaned by the purifying plants. Thus, the remelting of thin coated sheet metals, compounded into Trimotherm panels, is allowed.

Mineral wool

Mineral wool, as waste should be collected separately and:

- handed over to organisations as a raw material, in order to be recycled,
- handed over to organisations, in order to be installed as a building materials or
- handed over to a landfill (according to the European Directive analysis, it should be considered as non-hazardous waste - Directive 1999/31/EC)

Packaging materials

Packaging collected separately should be handed over as a secondary raw material:

- PE foil is recycled for use in PE foil production (recyclable),
- Styro – for recycling,
- Cardboard – recycled by the paper industry,
- Wood (cases for flashing elements and screws) as fuel, or recycled by the cellulose industry,

2.4. Costs of waste separation, sorting and handing over to the authorised organisations

By buying the product, the ordering party or the end user are responsible for its proper use and its sorting and handing over to the authorised organisations. The same responsibility exists for product waste and packaging in accordance with the regulations in the country of the ordering party or end user.

These guidelines are designed to help with waste management and conform to the directives on the management of waste and waste packaging, applicable in EU.

Note: Polyurethane foam, serving as an adhesive, after the separation partly remains on sheet metal and partly on mineral wool. Due to the small residual quantities involved per product unit and the technologically demanding processes required to remove it, the polyurethane foam is treated as an integral part of remains, burning up during primary process of metal remelting, and the smoke gasses cleaned by purifying plants within the melting furnaces.

DECLARATION BY MANUFACTURER

Manufacturer: Trimo d.o.o., Prijateljeva cesta 12, 8210 Trebnje

Hereby declares,
that the product Trimoterm panels (SNV and FTV) are manufactured in accordance with the following directives and regulations dealing with the handling and storage of waste and packaging material as well as waste packaging:

- directive 1999/31/EC on landfill of waste,
- directive 94/62/EC on packaging and packaging waste,

The product »Trimoterm panel« (SNV and FTV), including the packaging material used, is recyclable at 99% provided that the »Instruction for the treatment of waste Trimotherm FTV and SNV panels insulated with mineral wool and packing materials« are followed. Such instructions are intended for the user, respectively the customer, as information about appropriate disposal of remainders of panels and packaging material in compliance with the applicable legislation, respectively about separation, sorting and handover of such remainders and waste to authorized collection sites and entities.

The manufacturer further declares that in general the products of Trimoterm group are manufactured from premium and environmentally friendly materials and therefore they do not pose a risk to environment during their life cycle (including recycling), provided they are used for the intended purposes and correctly handled while being recycled. Upon expiration of their life cycle they may be, in accordance with the relevant directives of instructions, recycled by authorized entities or disposed by authorized collection sites (dumping places) without any significant impacts on environment.

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