

User manual and information on safety of use of masonry elements made of autoclaved cellular concrete: blocks and tiles SOLBET

General notes

- 1) For each pallet with the product, there is a label with the CE marking, which contains all relevant information about the product, SOLBET blocks
- 2) At each stage of a product life, it is necessary to observe the regulations and provisions contained in the Building Law Act, construction project, health and safety plan, current masonry standards: PN-B-03002:2007, PN-EN 1996-1 -1 PN -EN 1996-1-2 and PN-EN 1996-2, construction trade and current state of technical knowledge,
- 3) All products and tools needed for laying the SOLBET blocks are shown on page www.solbet.pl and in SOLBET product catalogue. Technical support can be obtained at: handel@solbet.pl, marketing@slbt.solbet-stw.pl and technical support hotline: 801 999 777.

Packaging, transport, loading and unloading, storage, safekeeping

- 4) Pallets of blocks to be moved, loaded and unloaded by forklift or crane of sufficient crane/lifting capacity, equipped with unloading forks with a length greater than the width of a pallet ($\geq 1200\text{mm}$)
- 5) To transport blocks, both on pallets and in bulk, select the appropriate mean of transport in terms of both maximum load capacity and dimensions of the load area. Information on the weight of a pallet of blocks can be found at: www.solbet-stw.pl and in SOLBET product catalogue
- 6) The mean of transport should have side barriers and be equipped with safety belts and corners. The load area surfaces must be even, without any debris
- 7) During the transport, pallets should be tightly placed each other and strapped with belts, both among themselves and to the load area box.
- 8) Pallets with SOLBET blocks can be stacked up to two pallets arranged on a flat, level ground.
- 9) Blocks in bulk can be stacked up to 8 layers mutually crossed. Stored blocks must be protected, both against damage and moisture. They must be protected against rising water from the bottom by stacking them on insulation pads and from the top by foil, protecting them against rainfall.

Bricklaying

- 10) Bricklaying require the use of appropriate tools: trowel for thin-layer grout, traditional trowel (for the application of traditional grout) trowel for grinding, saw for cutting, guide facilitating the cutting, hammer with a rubber head, spirit level and sweeping brush.
- 11) To connect SOLBET blocks, thin-layer grouts are provided (SOLBET 0.1, SOLBET 0.2 and during low temperatures SOLBET 0.7), and for partition walls and finishing works, polyurethane adhesive (SOLBET SMART 9.0 and 9.1), all available in SOLBET offer.
- 12) The method of preparation of the grout is indicated on the packaging.
- 13) When bricklaying a wall with cellular concrete blocks, particularly adhere to the following rules
 - Bricklaying starts from the corners,
 - The first layer is to be made on the cement grout (e.g. SOLBET 0.5), levelling uneven ground,
 - When bricklaying with blocks where on both sides of which, there are only grooves (W), the vertical joints should be filled with grout (grout is then applied onto the surfaces which will come into contact)
 - Blocks and tiles have two types of zippers: vertical and horizontal. Information on the type of the zipper regarding the particular product can be found at: www.solbet-stw.pl.
 - When bricklaying with blocks profiled with horizontal zipper (Z) the vertical joints to be filled with grout.

- When bricklaying blocks profiled with vertical zipper (Z), it is recommended to fill the vertical joints with grout at the outer side of the wall (only one side of the zipper).
 - Cut blocks, or in the corners should be connected by filling the vertical joints with grout,
 - Before bricklaying of the next layer, grind unevenness of the upper surface of the wall that has already been made with the help of a trowel or grinding plane,
 - Before applying the grout, always clean the surfaces to be joined from dust,
 - After setting and stabilization of the block in the wall (using a hammer with rubber head), it should not be moved,
 - The vertical joints of successive layers of the wall should be staggered a minimum 0.4 height of the masonry element. In the case of SOLBET blocks with a height of 240mm, this offset is 96 mm,
 - For cutting blocks, use hand saw and angle guide or band saw,
 - During long pauses in the masonry works, the built wall should be protected from water by covering the top with foil,
- 14) Additional instructions for bricklaying in conditions of elevated temperature.
 - Keep the prepared grout against high temperatures by placing it in sheltered spots away from direct sunlight,
 - Moisten the surface of masonry blocks with water,
 - grout should be applied in short sections
 - 15) Additional instructions for bricklaying in conditions of low temperatures:
 - Bricklaying should be carried out at a temperature higher than 0°C,
 - Blocks can not be frozen, covered with frost or snow,
 - Use winter grout SOLBET 0.7,
 - At temperatures lower than +5°C use warm water for stir grout up,
 - Keep the prepared grout against the cold,
 - It is recommended to use curtains to protect the walls from chill,
 - Monitor the temperature and weather conditions,
 - During setting of the grout for the first 8 hours the temperature at the surface of the wall should not fall below -5°C,
 - Protect the freshly built wall from excessive frost, moisture and drying, by covering it with insulating mats,
 - Before further works, check whether the grout in the wall has been properly set by hitting the surface of the wall with a rubber hammer. In the event of breaking the joints of the blocks, the relevant fragments of the wall must be dismantled

Information on health and safety during the application and use of the product

- 16) When applying, use collective and personal protection measures and equipment (including protection against falls from heights), in accordance with applicable law.
- 17) During the works involving cutting, clipping, drilling and sawing of products, use protective glasses and masks.
- 18) Contaminated eyes rinse with plenty of water and seek medical advice.
- 19) During storage and use, SOLBET blocks and tiles do not emit any substances that could pose a threat to human and animal health.

Waste disposal

- 20) Waste from SOLBET blocks pose no threat to the environment and do not contain chemicals listed in Appendix XIV to the Regulation (EC) No. 1907/2006 of the European Parliament and Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)