

■ TECHNICAL DATA SHEET STORAGE, HANDLING & TRANSPORTATION



1. HIMACS Sheets

In the workshop:

1.1. HIMACS Sheets: General

- Always handle HIMACS with care.
- Use always your personal safety protection material (like gloves, safety shoes...etc.).
- Keep the environment of your workplace clean.
- Use proper and safe handling equipment.
- When moving HIMACS sheets in your warehouse or fabrication shop drive and move slowly –but continuously.
- Ensure the area where you are moving material back and forward is smooth and free of any unevenness in the floor.
- When using a fork lift ensure the lifting arms are long and strong enough to take the heavy pallets from the front side, so that the pallet can be lifted free.
- If you receive a standard container delivery you must unload from the head side and have prepared the folk with long lifting arms to unload in the best and safest way.
- In case of taking the pallets from the side ensure to use a wide fork lifter arm to avoid any dangerous bending of the material.
- Due to heavy weight it is best to unload and move pallets singly to prevent any harmful bending of the sheets.

1.2. HIMACS Sheets: Storage & Handling

- HIMACS sheets should always be stored flat on sturdy pallets with a cover board placed on the pallet before stacking the sheets (Fig. 1).
- Keep the sheets in a dry, well ventilated area.
- Using shelving, HIMACS sheets must always be stored with sufficient support so that the sheets do not warp.
- Never attempt to carry sheets of HIMACS on your own. The sheet should be lifted by two people, one at either end. Always lift in a vertical position (Fig. 2).

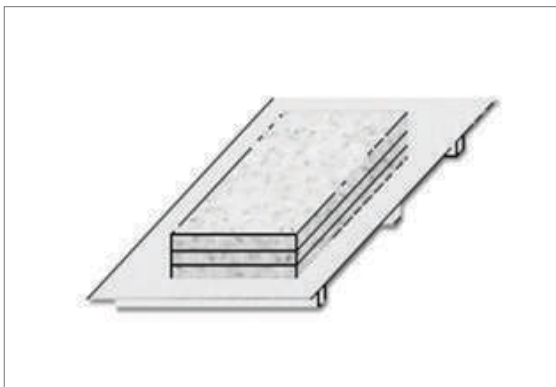


Fig. 1

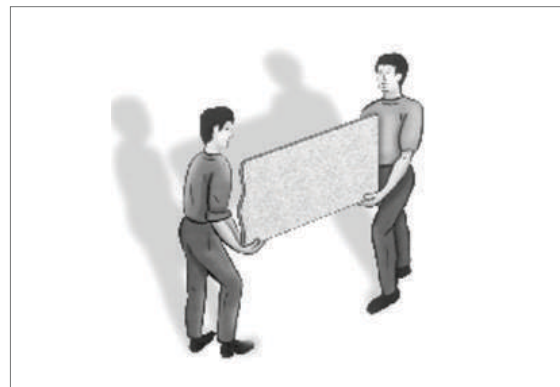


Fig. 2

- Do not drag sheets of HIMACS along the floor as this will lead to chipped or broken edges.
- Always support panels which have cut-outs and/or joins during transportation.
- Store sinks and bowls in the same way as the sheets.
- Pack fabricated elements made out of HIMACS using blister pack for protection.
- Large fabricated elements are best supported on their edge.
- Avoid transporting fabricated items of HIMACS in open top vehicles as this can cause extreme thermal movement and a change of air conditions.
- Prevent panels and elements from moving during transportation.



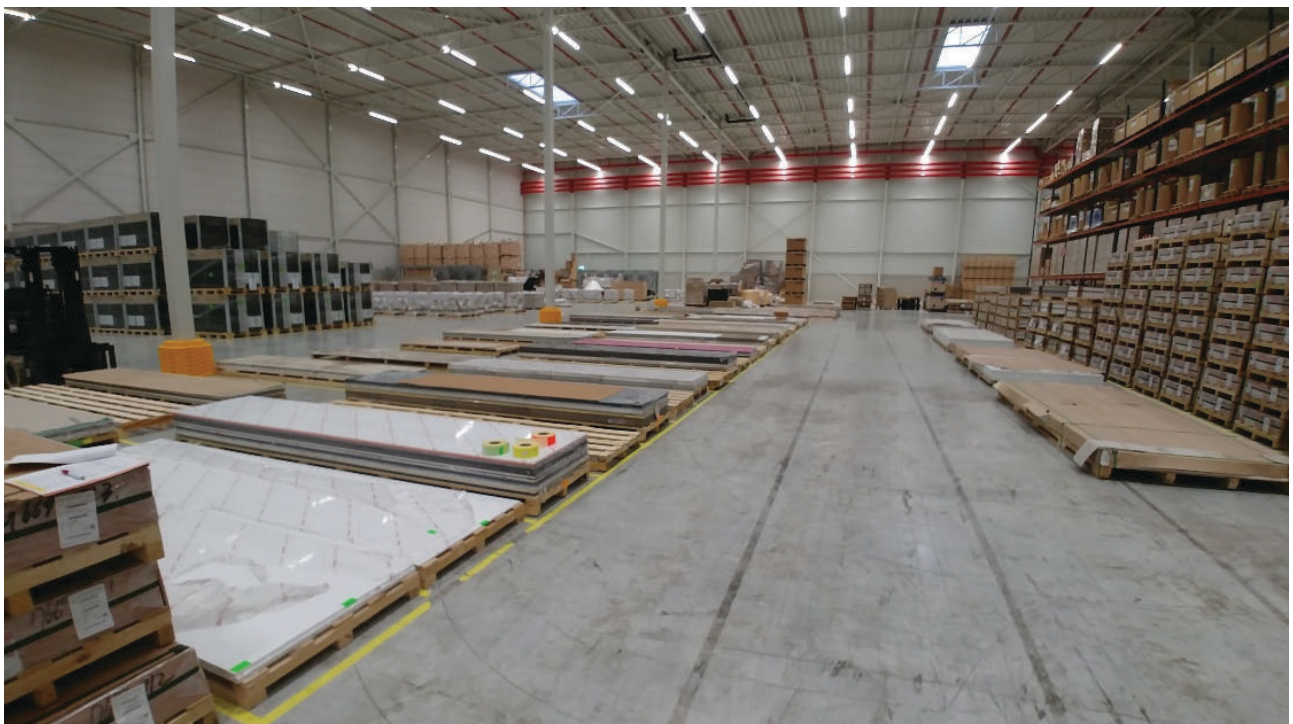
Do NOT store HIMACS Material outside!



Best to store HIMACS Sheets in a well covered room or warehouse hall with closed and protected wall against rain, snow, cold and sunlight.

Ensure HIMACS Sheet material is positioned on a flat and leveled base or straight floor level.

Best practice to store HIMACS Sheets one pallet maximum on a one rack unit.



Best practice: Warehouse sample – Pantos / warehouse
©Lothar Moritz

Ensure when handling HIMACS sheets and pallets by using a forklift the lifting arms are placed in the correct distance apart and are all leveled in one having a straight direction.



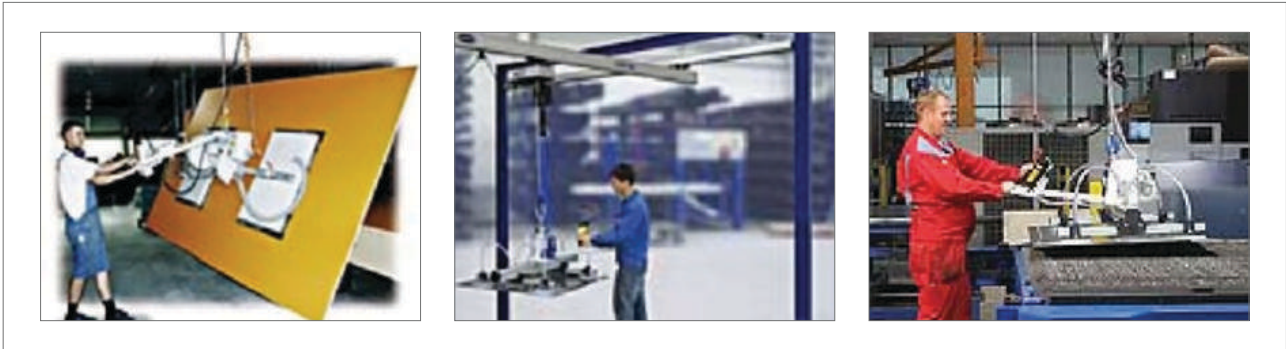
- Place pallets only when the shelf arms are levelled to ensure to avoid any warping or wave bending.
- In case you have to store several pallets putting on top of each other for a very short period of time ensure you put enough support under the pallet to avoid any waving of sheet possibility and that those are absolutely aligned to be able to take all the heavy weight.
- When putting a pallet in stock open its transportation steel band and remove the clear plastic sheet of the pallets to minimize the effect of moisture.
- When the pallet is placed in the rack always cover the top with a protective wooden sheet. This avoids the top sheet becoming dirty or easily scratched.



Do NOT pull off the protective film during storage!

Always protect the sheets & pallets against the weather.
Do not leave them outside for hours and days.

- When handling a sheet always do it best with two people or using a vacuum lifting system (for example: company "Schmalz GmbH", Germany, www.vacuworld.com).



- When lifting by hand always turn the sheet on the edge before lifting up.
- Ensure to have proper support to handle the weight of the sheet.
- When providing cut sheets to your customers store the left of sheets by size but avoid mixing long and short sheets due to warping and waving effect of the sheet material.



In case of any complaint in regardless of material defect, please always provide the sheet-no. to be filled in a "QC-Complaint Request Form" (latest published version).

S028 ALPINE WHITE 38AV1 0235 IIII

Sample of sheet no.: „38AV 1 0235“

2. HIMACS Adhesive

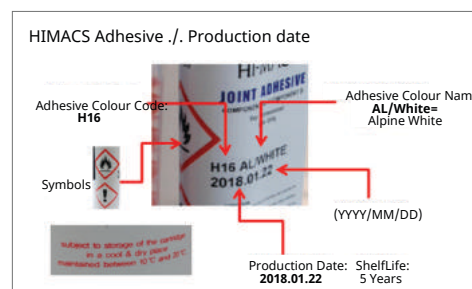
- Store adhesives in a well ventilated room.
- The room should be best: dark , dry and cold
- Storage temperature should be best approximate between + 8°C and + 15°C.
- Avoid any direct sunlight to the adhesive cartridges.
- Follow legal storage handling of “dangerous & flammable” adhesive items.
- Indicate the storage goods with proper signs
- “No Smoking” allowed.



Do NOT store adhesive in uncontrolled conditions or outside.

Shelf life of all cartridges is 5 years starting from the production date printed on the labels of adhesive.

In case of complaint please always provide this production date as reference to be filled in a QC-Complaint Request Form.



Sample of adhesive production date: 2018.01.22

Precautions for safe handling:

- Use local and general ventilation.
- Keep away from sources of ignition
- No smoking.
- Use only in well-ventilated areas. Wash hands after use. Do not to eat, drink and smoke in work areas.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Never keep food or drink in the vicinity of chemicals.
- Never place chemicals in containers that are normally used for food or drink.
- Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage, including any incompatibilities:

- Keep at temperatures below 30°C.
- Water mist may be used to cool closed containers.
- Incompatible products
 - Polymerization accelerators
 - Easily oxidized materials.

Reacts violently in contact with

- Acids
- Amines
- Driers

► For further Information on glue see MSDS of HIMACS Adhesive.

3. HIMACS Shapes

- Always handle with care.
- Do not leave the packaging in the rain or in the snow.
- Check all incoming goods immediately of any outside or inside damage and report on the transportation documentations.
- Do not allow any package to be dropped on the floor neither hidden by a forklift nor bumped on any corner, barrier, walls or any other warehouse/workshop items.
- Leave shapes in their original packaging when storing
- Put the labels in the direction where those can be read from outside.

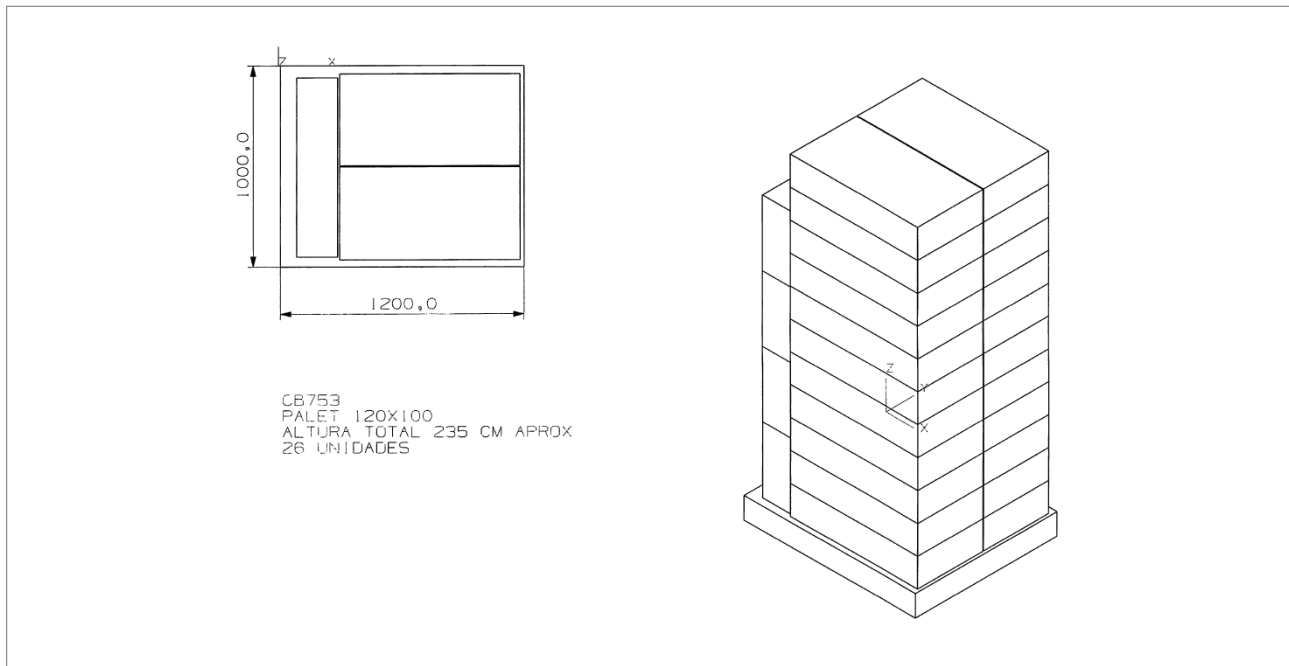


- Store shapes inside a well-ventilated room and do not put them outside.
- Ensure the shelf system is strong enough to easily take the weight of the shapes.
- Depending on packaging size do not put more than 8 to 10 packages on top of each other. Detailed \ package and storage-list: please ask your local Authorized HIMACS Distributor
- Do not put several pallets on top of each other.
- Store the material properly leveled and horizontally only.
- Keep items clean.

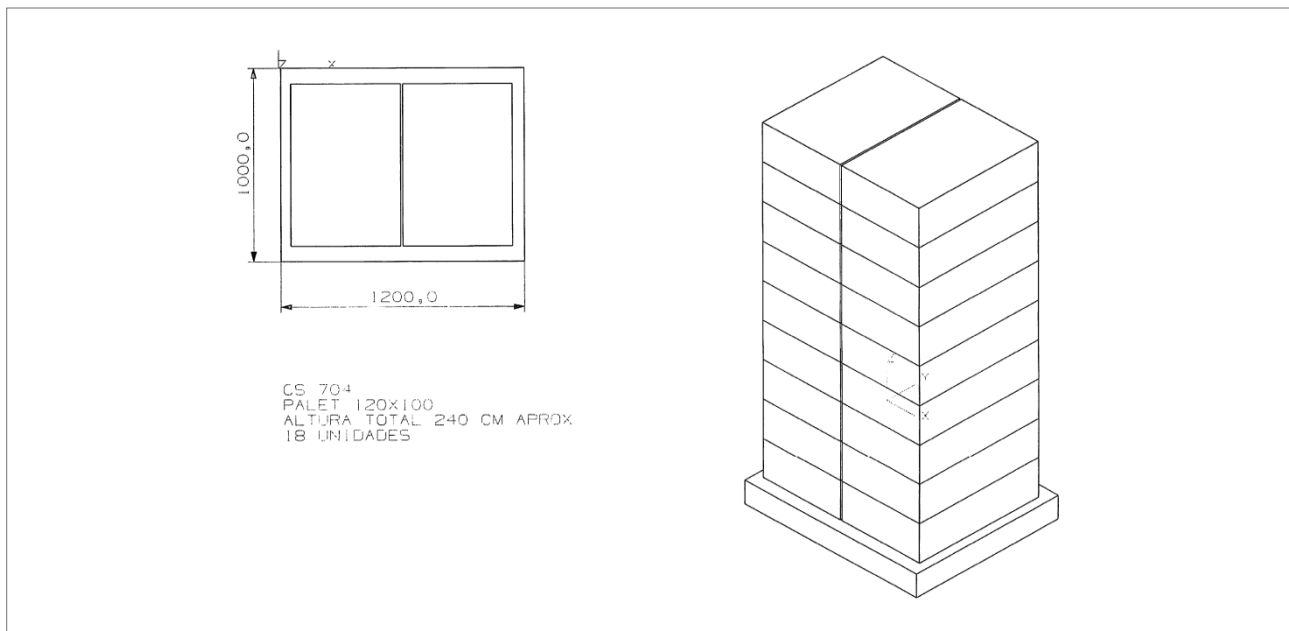


In case of complaint of shape please always provide this production-no as reference to be filled in a QC-Complaint Request Form.

Pallet packaging sampling storage



Pallet packaging CB753



Pallet packaging CB753

- Ensure to fix the tower of boxes with some transportation plastics to avoid any falling down.

Transportation

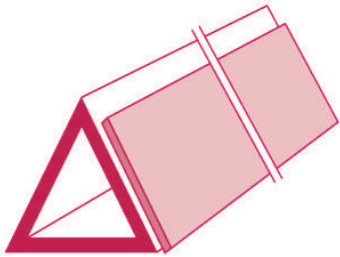


- Ensure the pallets loaded on the lorry (truck) are placed leveled and have full support any time.



- Pallets and boxes should be stopped to avoid any movement during transportation.
- Do not store more than 5 pallets on top of each other. (sheets only / check weight)
- Fabricated items to be protected by a bubble wrap pack / wooden surroundings or full cover boxes for protection.
- Edges and corners need to be protected with pasteboards or other packaging materials to avoid any hitting or edge damage.

In case of complaint of any visible package damage during transportation when unloading the truck make a notification on the transportation documents - delivery note.



Fabricated elements are best transported on the edge of the back and stored on a special A-angled Support-Rack with protection shields

- Any cutouts on fabricated items need to have a proper protection to avoid any breaking by loading, unloading and during transportation.
- Avoid transporting fabricated items of HIMACS in open vehicles as this can cause extreme thermal movement according of used products and will have a huge impact due to a change of atmospheric conditions.

■ LX Hausys Europe GmbH

European Headquarters:
LX Hausys Europe GmbH
Lyoner Str. 15 60528
Frankfurt am Main, Germany

