

HIMACS Safe Handling, Storage and Transportation

HM2040

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Introduction

This section guides the safe and efficient way to handle, storage and transport HIMACS products (sheets, adhesives, shapes), and also informs dimensions and packing information.

Overview

For safe and efficient handling, storage and transportation, please read this section before work on HIMACS products. HIMACS products might be offered in heavy pallet packing. And, sheets and some shape products are too heavy to handle it to single person. In addition, in order to use HIMACS products stably for recommended period with best performance, specific storage is required for each HIMACS products. Proper handling and storage will provide HIMACS products in the best material condition for your work.

Note !

- 1. This guideline has been created to provide technical information for successful fabrication and installation of HIMACS, and it is intended to be used in a safe environment considering their own discretion and risk by who has technical skill for fabrication and installation of HIMACS.*
- 2. This guideline is continually revised to provide reliable and up-to-date information, replacing all previous versions of the guideline and technical information, however the usage and conditions of use are beyond LX Hausys control. LX Hausys cannot guarantee the suitability of material, fabrication and installation for all usage and conditions of use. Users should not regard or rely on this guideline as a complete, sole, up-to-date or absolute information. HIMACS users, fabricator and installer should review whether the design for HIMACS, fabrication method, installation method and required performance are suitable for the intended use and conditions of use. LX Hausys shall not be liable for any direct or indirect, commercial damages or losses caused by the fabrication and installation results of HIMACS using any or all of these guideline. In addition, the results of joining with other materials, and the fabrication and installation guidelines for other materials shall not be covered by LX Hausys.*
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- 4. LX Hausys reserves the right to change the technical information and disclaimers in this guideline for technical development and further information, and the use of HIMACS or this guideline is considered to accommodate the information and changes provided in this guideline. Therefore, please check the changed details of this guideline from time to time.*
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Visit our web site at www.lxhausys.com for the latest version of HIMACS fabrication guidelines.

Contact LX Hausys HIMACS territory manager or distributor of your market for specific questions and information.

1. Packing Information

Table 1. Packing information

Products			Packing Unit	Quantity	Width (mm)	Length (mm)	Height* (mm)	Weight** (kg)	Remark
Sheets	6T	Width 760 mm type	1 sheet		760	2490	6	20	Wooden pallet
			1 pallet	30 sheets	780	2520	280	617	
		Width 910 mm type	1 sheet		910	2490	6	24	
			1 pallet	30 sheets	950	2530	280	741	
		Width 1350 mm type	1 sheet		1350	3680	6	52	
			1 pallet	20 sheets	1370	3710	220	1085	
	Width 1520 mm type	1 sheet		1520	3680	6	58		
		1 pallet	20 sheets	1550	3710	220	1210		
	12T	Width 760 mm type	1 sheet		760	3680	12	58	
			1 pallet	15 sheets	780	3720	280	895	
		Width 910 mm type	1 sheet		910	3680	12	70	
			1 pallet	15 sheets	950	3710	280	1080	
		Width 1350 mm type	1 sheet		1350	3680	12	103	
			1 pallet	12 sheets	1370	3710	244	1281	
	Width 1520 mm type	1 sheet		1520	3680	12	116		
		1 pallet	10 sheets	1550	3710	220	1210		
	20T	Width 760 mm type	1 sheet		760	3000	20	79	
			1 pallet	15 sheets	780	3120	400	1206	
Adhesives	Cartridge	45ml	1 box	15 ea	180	160	180	1.7	Corrugated box in wooden box***
		250ml	1 box	6 ea	210	20	180	3	
	Tube	70ml	1 box	25 ea	360	320	170	2.5	
Shapes (bowls)	Sink	HMZASS028-398SA HMZASS028-398SN	1 box	1 ea	520	520	315	12	Corrugated box on plastic pallet
			1 pallet	24 ea	1100	1100	2010	298	
		HMZASS028-449LA HMZASS028-449SN	1 box	1 ea	555	490	335	14	
			1 pallet	20 ea	1100	1100	1795	300	
		HMZASS028-449SA HMZASS028-449RS	1 box	1 ea	555	435	280	10.7	
			1 pallet	28 ea	1100	1100	2080	310	
	HMZASS028-800DA	1 box	1 ea	915	540	325	26		
		1 pallet	12 ea	1100	1100	2070	322		
	HMZASS028-824DA	1 box	1 ea	935	525	310	24		
		1 pallet	12 ea	1100	1100	1980	298		
	HMZASS028-102NN	1 box	1 ea	830	540	305	17		
		1 pallet	12 ea	1100	1100	1950	214		
Basin	HMZASS028-301NN	1 ea	1 ea	630	470	240	8.8		
		1 pallet	28 ea	1100	1100	1800	256		
	HMZASS028-302NN	1 ea	1 ea	510	430	250	5.3		
		1 pallet	28 ea	1100	1100	1870	158		

* Pallet Height = Total height of packing including pallet height
 ** Pallet Weight = Total weight of packing including pallet weight
 *** Wooden box size for shipping is dependent on order quantity.

Note!

This information might be changed without notice in advance. Please check the latest information before you order

2. General Handling Information

- All HIMACS products should be inspected promptly when you received, and inform your supplier if you find defects on HIMACS products.
- Always handle HIMACS products with care.
- Always use your personal safety protection material (like gloves, safety shoes...etc.), and use proper and safe handling equipment.
- Always keep the environment of your workplace clean. Ensure the area where you are moving HIMACS products back and forward is smooth and free of any unevenness in the floor.
- When moving HIMACS products in your warehouse or fabrication shop drive and move slowly – but continuously.
- 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 the best to unload and move one pallet at a time to prevent any harmful bending of the HIMACS sheets.
- If you can't use suitable equipment for heavy pallets, open the pallet on the vehicle bed, and unload HIMACS products manually one by one following the handling guidelines of each product.

Note!

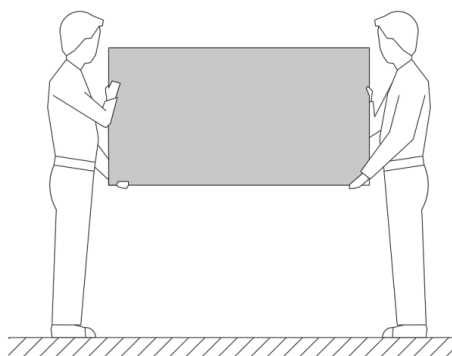
Any warping or damage by wrong handling, storage, Transportation will not be covered by LX Hausys.

3. HIMACS Sheets

3-1. Handling

- Never attempt to handle individual HIMACS sheets by one person. HIMACS sheets should be lifted by two people, one at either end.
- Always lift in a vertical position on edge with one hand under to support, and one hand over to control HIMACS sheets.

Fig 3-1. Sheet handling by two people

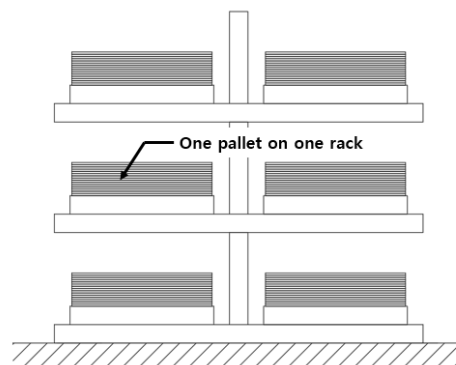


- If possible use vacuum lifting system and suction cup.
- Don't allow HIMACS sheets to flex when you carry HIMACS sheets to prevent from damage.
- Never drag HIMACS sheets ® along the floor as this will lead to chipped or broken edges.

3-2. Storage

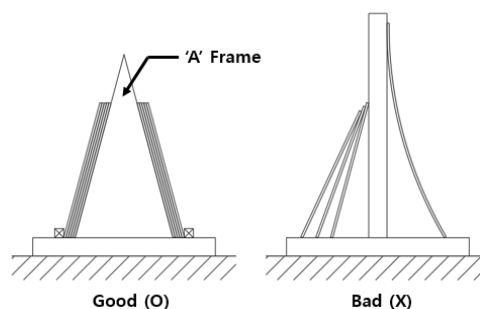
- Storage HIMACS sheets in a dry and well ventilated indoor area from 15°C to 25°C temperature such as well-prepared warehouse. Any damage sources like sunlight, rain, high heat and any should be blocked during storage.
- The stock system is recommended to have easy sheet number identification, easy access and easy handling for HIMACS sheets, so that first-in first-out should be possible.
- The shelves for HIMACS sheets should be well leveled and strong enough with full underlayment support of rack support every 600mm so that the HIMACS sheets do not warp.
- Putting one pallet on one rack unit is the best storage way.

Fig 3-2. Pallet storage



- 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.
- In case you have to put several pallets on top of each other temporary, ensure you put enough support under the pallet to avoid any warping of HIMACS sheets, and that supporters should be well aligned to be able to take all the heavy weight.
- Never leave sheets outside for hours or days.
- Do not pull off the protective film during storage.
- Basically, vertical storage is not recommended for HIMACS sheets. However, under unusual and temporary condition, consider “A’ Frame” that has full underlayment support or rack support at every 600mm.
- Using “A’ Frame”, entire surface of HIMACS sheet should be leaned closely against the frame to avoid warping. Ensure no space between sheets and sheets or between sheets and “A’ Frame” on vertical storage, and no slip of HIMACS sheets.

Fig 3-3. Vertical storage



3-3. Transportation (fabricated products)

- Fabricated items should be handled as fragile, and they are protected by proper packing material like a bubble wrap. Additionally edges and corners need to be protected with pasteboards or other shock absorbing packaging materials.
- Especially, cutouts on fabricated items need packing with proper support protection to avoid any breaking by loading, unloading and during transportation.
- Fabricated products are best transported on the edge of the back and stored on a special A-Support-Rack.
- Ensure the pallets loaded on the lorry (truck) are placed leveled and have full support any time.
- Avoid Transportation fabricated products of HIMACS in open top vehicles as this can cause extreme thermal movement and a change of air conditions.
- Prevent products movement during transportation. Fix products and pallets using clamps, straps or blocks.

Useful Tip!

Remind No warping, No breakage, No color change and First-in first-out

4. HIMACS Adhesives

HIMACS® adhesives require specific storage, handling, Transportation and use guidelines to ensure the performance and safety. For all information, please refer to 'HM2022 HIMACS Adhesive Information'.

- Storage HIMACS adhesives in a dry and well ventilated indoor area from 8°C to 15°C temperature such as separated cool cabinet. Any damage sources like sunlight, rain, high heat and any should be blocked during storage.
- The stock system is recommended to have easy lot number identification, easy access and easy handling for HIMACS adhesives, so that first-in first-out should be possible.

Useful Tip!

- HIMACS adhesives are flammable material, therefore safety is the first factor that should be considered at your work area when use HIMACS adhesives.
- Storage environment impact to the performance and quality of HIMACS adhesives.
- Shelf life of HIMACS adhesives is 5-years after date of manufacturing under guided storage environment. However, HIMACS adhesives are recommended to use within one year of the manufacture date for the best performance.
- LX Hausys shall not be liable for the performance down of HIMACS adhesives occurred by poor or improper storage and handling.

5. HIMACS Shapes(Bowls)

- HIMACS Shapes should be handled as fragile
- Do not allow any package to be dropped on the floor.
- Always handle and storage top side up as indicated by mark on the packing box.
- Always store HIMACS shapes inside a well ventilated room and do not put them outside. Do not leave the packaging in the rain or in the snow.
- Leave HIMACS shapes in their original packaging when storing
- Put the labels in the direction where those can be read from outside.
- Ensure the shelf system is strong enough to easily take the weight of the shapes.
- Depending on packaging size do not stack more than 8 to 10 packages on top of each other.
- Do not put heavy items like HIMACS sheets on top.
- Store the material properly leveled and horizontally only.
- Keep items clean.

For all information, please refer to 'HM2023 HIMACS Shape Information'.

Referenced documents

'HM2022 HIMACS Adhesive Information'

'HM2023 HIMACS Shape Information'

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