

**TECHNICAL MANUAL  
FOR KALESINTERFLEX  
PORCELAIN SLAB  
PACKAGING/ LOADING/  
CARRYING PRACTICES**





# Fusion of innovation, aesthetics and performance

Kalesinterflex porcelain slab that was developed in 2005 with the expertise of Kaleseramik, which is the 1st and 18th largest ceramic producer in Turkey and the the world respectively, carries porcelain slab to new usage areas with its large sizes, thin form, light structure and environmentally-friendly production technology.

With the new investment made in 2023, Kalesinterflex, which will be produced with the sizes of 160x320cm, 6mm, 12mm and 20mm thicknesses, as well as matte, satin and polished surface options, is getting ready to put its stamp on the innovations that will revolutionize architecture.



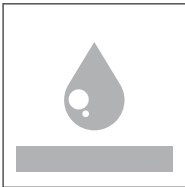
## Surfaces



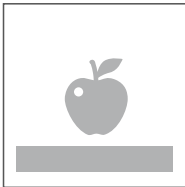
## Thicknesses



# Kalesinterflex Features



Low Water Absorption  
(Near Zero)



Hygienic



Fireproof  
(Flame Resistant)



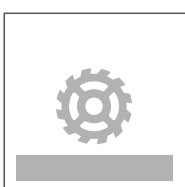
Long-Lasting



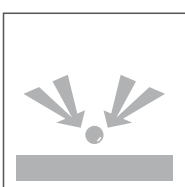
Easy Cleaning



Resistant to Household  
Cleaning Materials



High Scratch  
Resistance



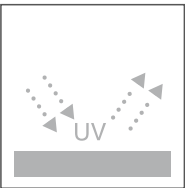
High Breaking  
Strength



High Stain  
Resistance



High Heat and  
Frost Resistance



High Resistance to  
UV Rays



High Abrasion  
Resistance

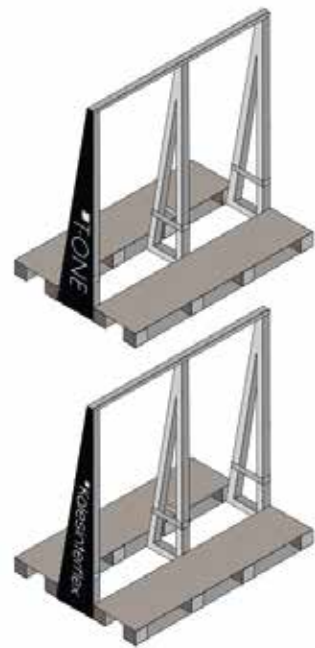
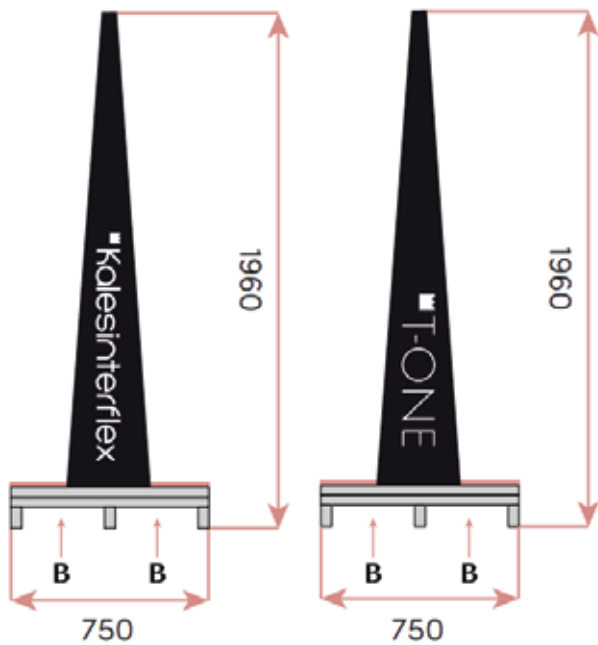
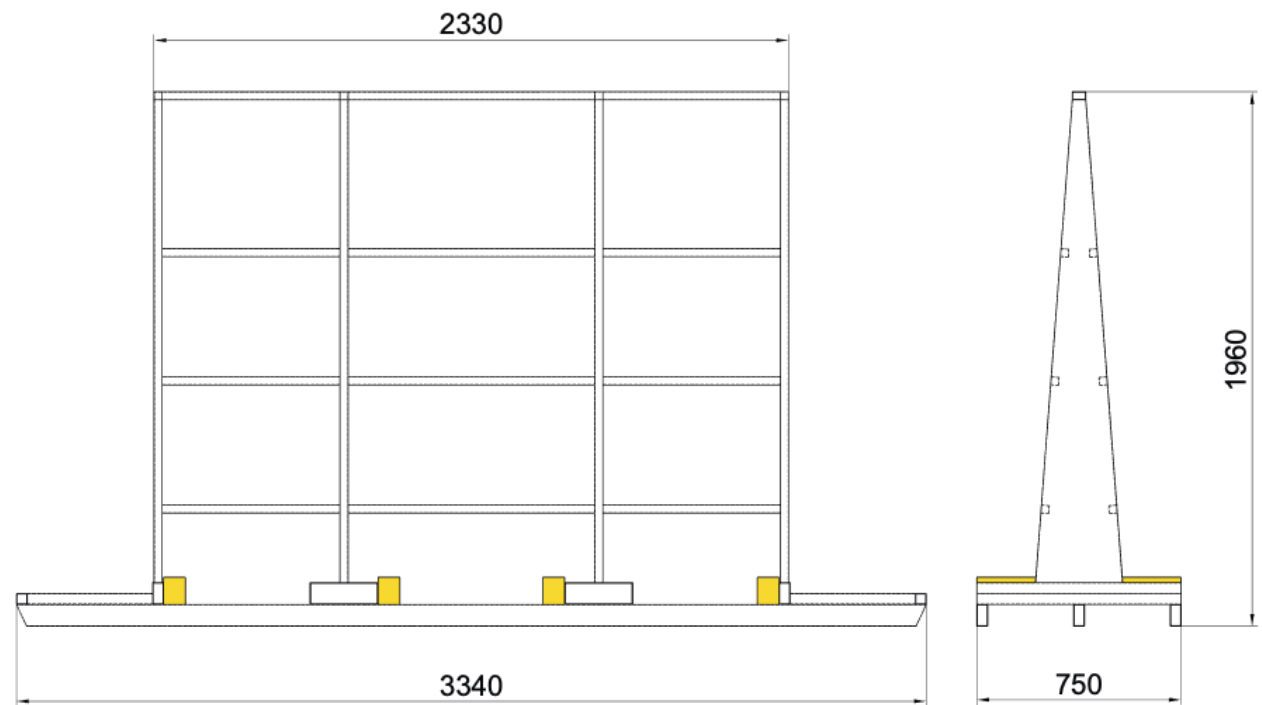


\*Not valid for glossy product.

# Packaging and packages

Kalesinterflex 6mm, 12mm, and 20mm thick full-length 1620x3230 mm slabs are vertically packed on metal "A-Frame".

## A-Frame





Quantity, Kilogram, and Size Information of A-Frame;

| Format/mm<br>(vertical stacking)                                   | Thickness (mm) | Pcs for A-Frame<br>(Pcs/A-frame) | M² for A-Frame | Kg for A-Frame<br>(A-frame is included.) | Full size of A-Frame<br>(cm) |
|--------------------------------------------------------------------|----------------|----------------------------------|----------------|------------------------------------------|------------------------------|
| Kalesinterflex 6mm<br>Full Length*<br>1620x3230mm<br>63.7"x127.7"  | 6              | 44                               | 230.2344       | 3335                                     | 328x76x197h                  |
| Kalesinterflex 12mm<br>Full Length*<br>1620x3230mm<br>63.7"x127.7" | 12             | 24                               | 125.5824       | 3763                                     | 328x76x197h                  |
| Kalesinterflex 20mm<br>Full Length*<br>1620x3230mm<br>63.7"x127.7" | 20             | 12                               | 62.7912        | 3101                                     | 328x76x197h                  |

\*"Furnace Slab" having untrimmed format. 5,2326 m2/piece-Empty A-Frame 121kg (metal)

Information Regarding the A-Frame  
Carrying Capacities of Containers and Trucks

| Container Loading with A-Frame 1620x3230 mm (63.7"x127.7") |               |        |        |               |        |        |                |        |        |
|------------------------------------------------------------|---------------|--------|--------|---------------|--------|--------|----------------|--------|--------|
| Container Type                                             | 20" Container |        |        | 40" Container |        |        | Truck (13.60m) |        |        |
| The thickness of the Slab (mm)                             | 6             | 12     | 20     | 6             | 12     | 20     | 6              | 12     | 20     |
| A-Frame That Can Be Loaded (Pieces)                        | 3             | 3      | 3      | 7             | 7      | 7      | 7              | 7      | 7      |
| Slabs That Can Be Loaded (Pcs)                             | 132           | 72     | 36     | 308           | 168    | 84     | 308            | 168    | 84     |
| Loadable area (m2)                                         | 690.7         | 376.75 | 188.37 | 1611.64       | 879.08 | 439.54 | 1611.64        | 879.08 | 439.54 |
| Maximum total weight (kg)                                  | 10.000        | 11.289 | 9.304  | 23.343        | 26.341 | 21.709 | 23.343         | 26.341 | 21.709 |

\* Empty weight of A-Frame 121kg (metal)

1.Carrying and storing

Kalesinterflex 1620x3230mm slabs should be carried in safe conditions to protect their original appearance and prevent accidental damage. It is recommended to be careful and make sure that the carrying area is closed to pedestrians while the product is carried.

1.1. Carrying A-Frame with a forklift

A-Frame should be symmetrically loaded before carrying to prevent balance problems. Before carrying, the operator should always check that the slabs are fixed to A-Frame with special tapes. It is recommended to be careful while carrying the slabs loaded on the A-Frame since they are not protected at the points corresponding to the outer edges.

A-Frames are equipped with two gripping points to be carried with a forklift:

The distance between the forklift's forks for "A" front gripping point is 740 mm. The distance between the forks for the "B" lateral gripping point is 500mm.

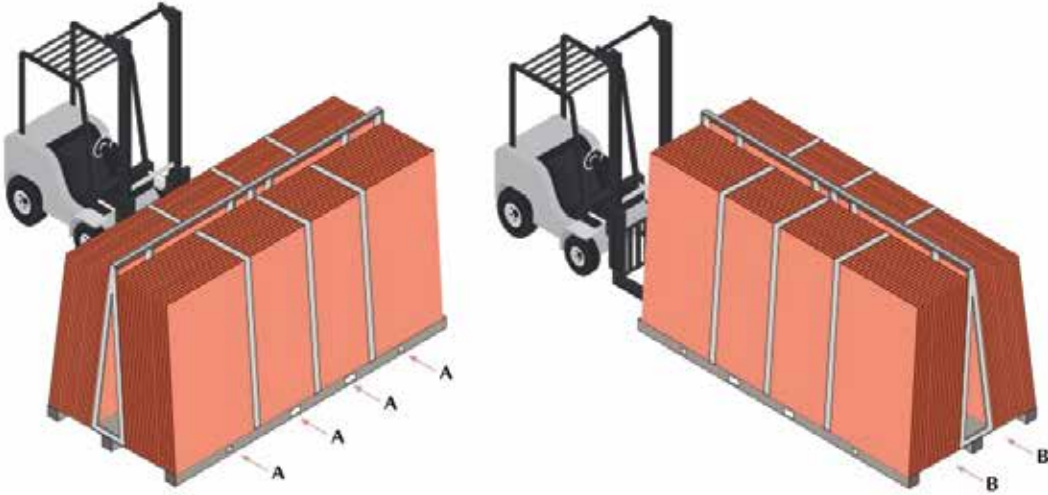
If both A and B lateral loading points are to be used, a forklift that has 8000 kg. maximum load capacity is recommended. The Kalesinterflex porcelain slabs loaded on the A-Frame in the warehouse or near the transformer should be preferably carried by using the "A" front gripping point. In other words, the process should be carried out by using a 3230 mm A-Frame, to which the products are to be fixed, and a forklift that has 1200 mm long forks at least, and a 5000–8000 kg load capacity. If the 'B' gripping point is to be used, a forklift that has an 8000 kg load capacity and at least 2800 mm forks should be used.

It should be ensured that the load does not move on the forks. While loading and unloading trucks and containers, fix A-Frame with the help of the two "A" and "B" gripping points in the way specified in the following paragraphs, respectively. While loading/unloading the trucks and containers and carrying even a single slab, fix the slabs to A-Frame with cloth or plastic tapes/straps. Metal chains should not be used at this stage.

Before the slabs are taken out from the A-Frame, it is necessary to place it on a flat surface having no defects that may cause the slab (s) to fall.

Forklift with 8000 kg capacity to carry from direction B

Forklift with 5000 kg capacity to carry from direction A

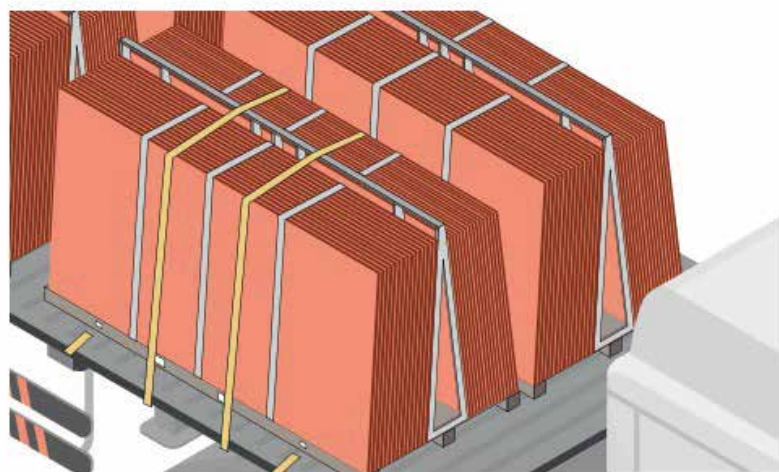
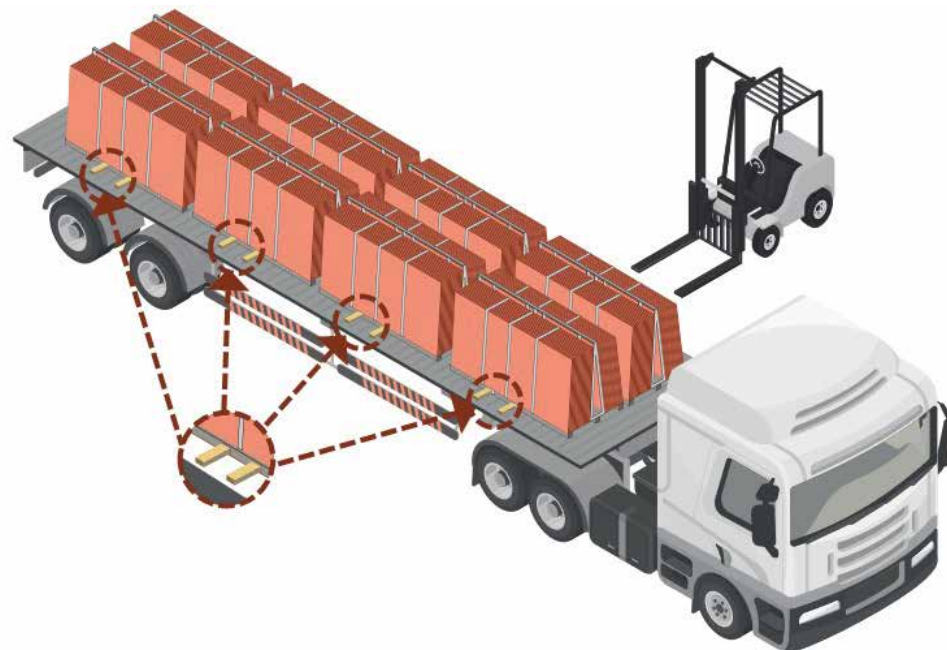


### 1.1.1. Loading/unloading the truck with A-frame

To load and unload the trucks which have dropside bodies, fix the A-Frame by placing the forklift forks at two "A" gripping points and leaving at least a distance of 740 mm between them. Forklift forks with a minimum length of 1200 mm should be used to place the A-Frame in the middle of the truck. To safely carry the products on the vehicles, fix the A-Frames to the truck bed from the base and top. Use polyester or similar straps for this work. If you load several rows of A-Frames, you should leave a distance of at least 50 mm between them.

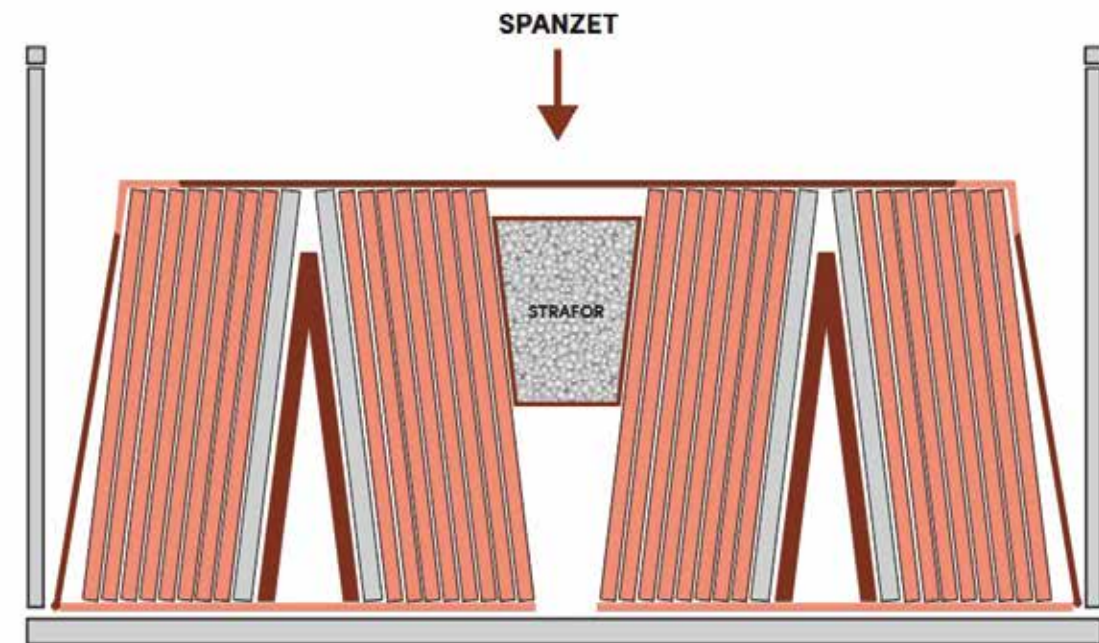
During loading and unloading, the operator should be careful about the people around. A-Frame should always be kept low while being carried and only be lifted when it is very close to the truck. You will find below an example of loading an A-Frame on a truck with a standard length of 13.60 m.

Wooden boards having at least 7x9 cm sizes, which are placed in the forklift lifting slots, are used to bolster the A-frames.



### 1.1.2. Domestic and International Highway Transportation with Truck

In international transportation with trucks, two A-Frames are fixed to the vehicle chassis with at least two safety ropes. Airbag or styrofoam is used as a bolster between the two A-Frames.

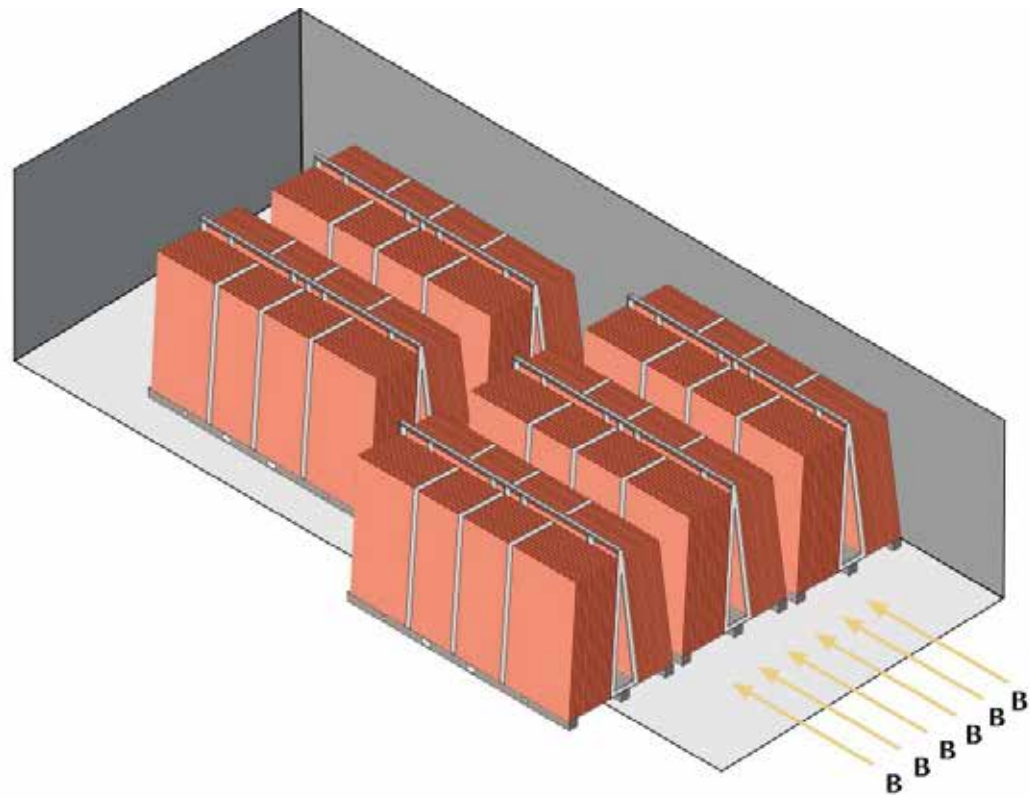


### 1.1.3. Loading/unloading container with A-Frame

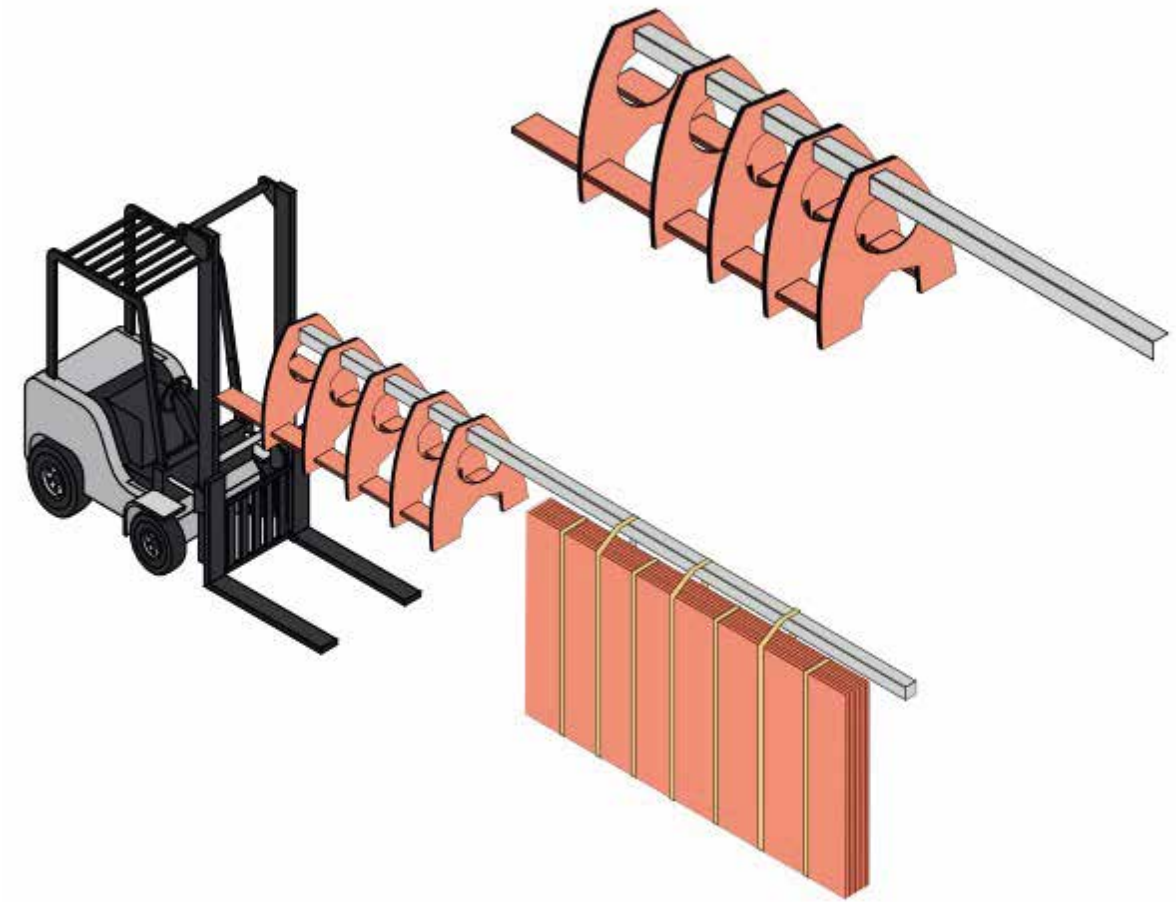
Use a pallet jack or forklift with a 5000 kg load capacity and forks of at least 2800 mm while the products are loaded on the container, and the container is unloaded. The operator moves the loaded A-Frame after taking and lifting the load with the help of the two “B” gripping points.

During loading, check the balance of the product by fixing the A-Frames to each other and the towing platform. To carry the frames safely on the container, fill the gaps between the scaffolds and between the scaffold rows and airbags.

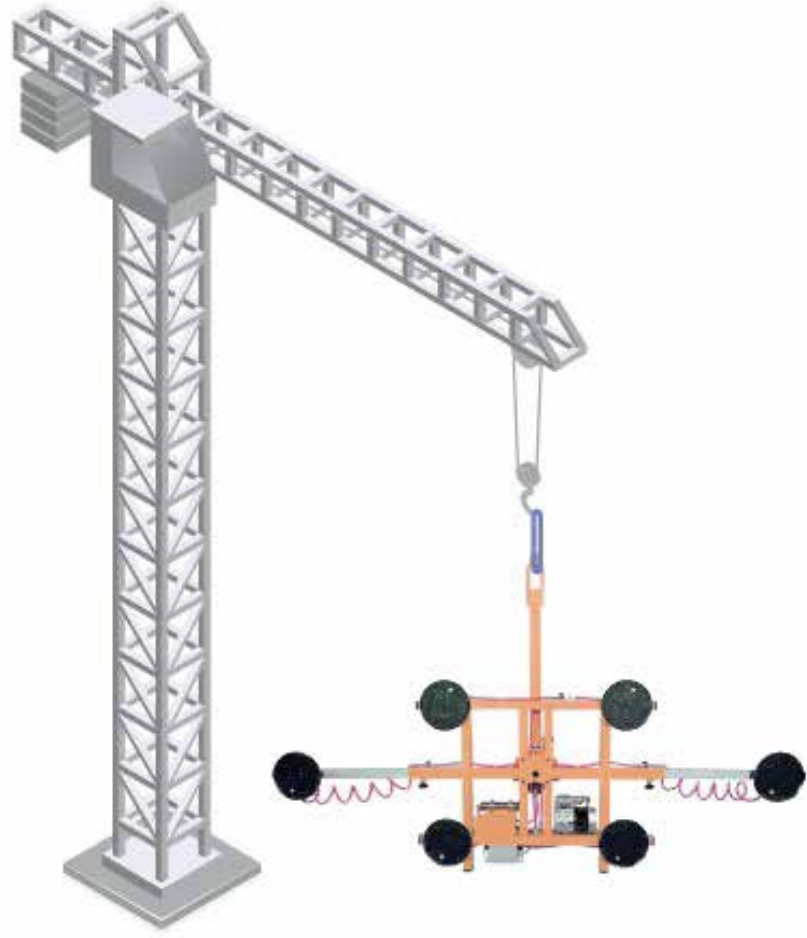
Before the unloading, always check the methods used while locking the A-Frames, to remove the locks. Outside the container, carry the product by attaching the A-Frames to the “A” gripping point every time.



For loading/unloading the slabs, as seen in the picture below, a special lifting tool with belts, which is installed on a forklift having a load capacity of 5000–8000 kg, should be used. On the other hand, a crane equipped with a lifting arm, which is usually used to carry slabs, can be utilized.







We recommend you use a similar tool and follow the same method to prevent imbalance and accidental damage during the unloading period.

Regardless of the method used for storing, other materials should not be put on Kalesinterflex porcelain slabs, especially on glossy surfaces.

If it is necessary to put them on top of each other, there should be no contact between the slabs. If the products are to be transferred from A-Frame to A-Frame one by one, precautions should be taken against surface damage that may occur.

**Kale**

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