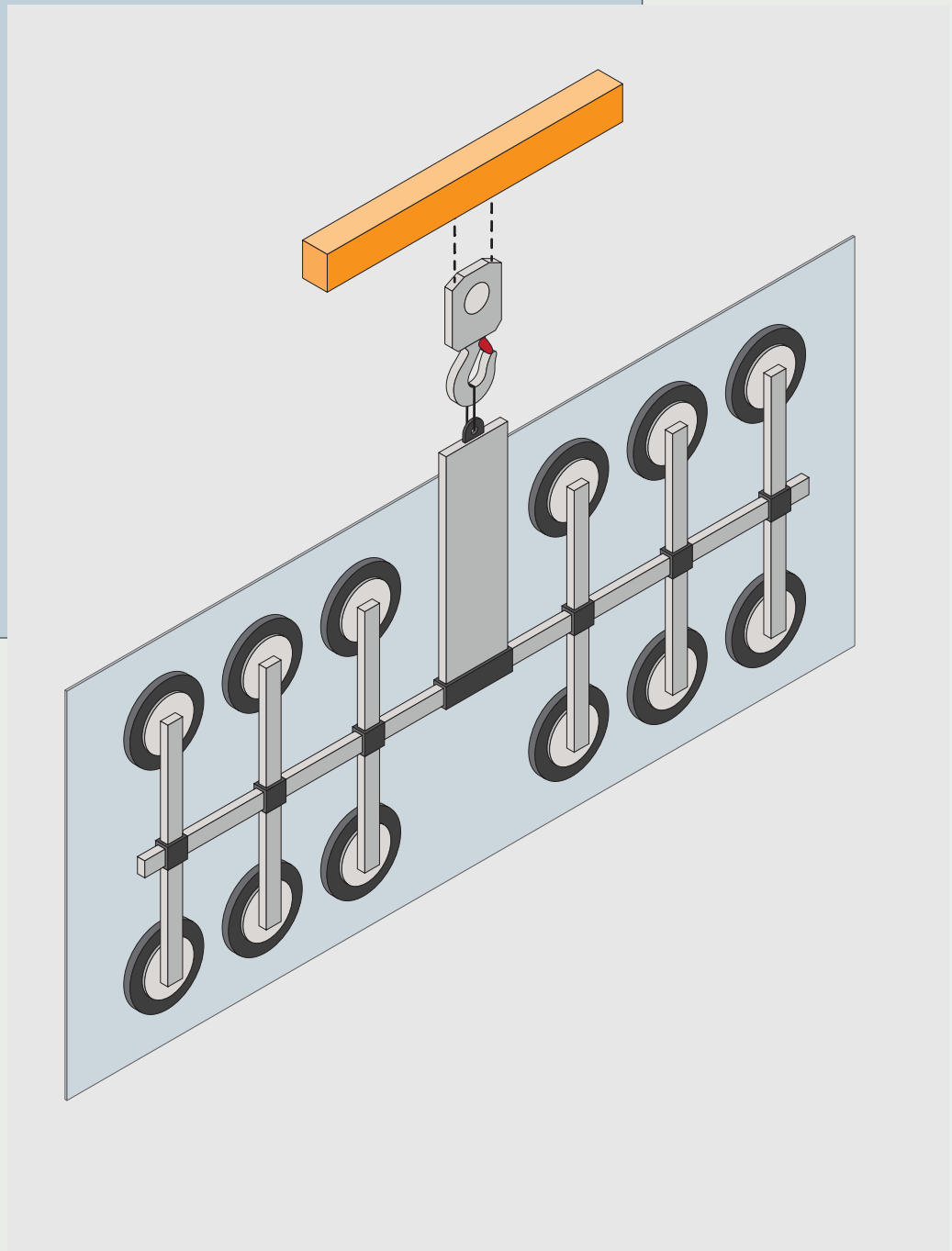


# Dekton® 4 mm Slim slabs Transportation & handling

LOGÍSTICA COSENTINO®  
COSENTINO® DEKTON® 4 MM SLIM SLABS  
TRANSPORTATION & HANDLING





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# Health & safety

## Risks associated with handling and transport

Operators and fitters dealing with Dekton®, Silestone®, Sensa and/or Scalea® materials, must comply with all applicable occupational health and safety laws and regulations.

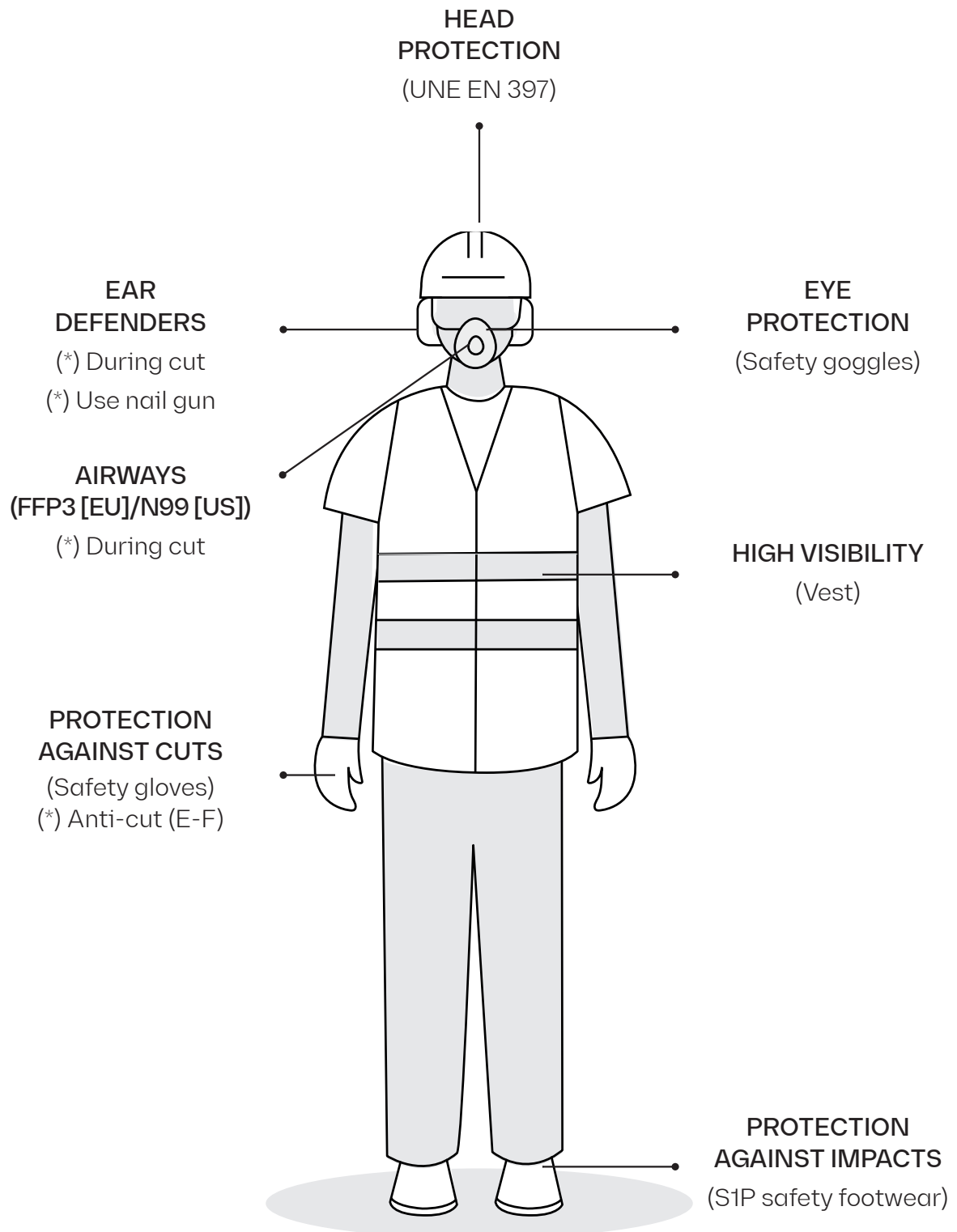
During transport and handling of Dekton®, Silestone®, Sensa and/or Scalea® materials, risks such as bumps, cuts, musculoskeletal disorders, entrapment or blast injuries can occur due to incorrect handling.

Always take the necessary occupational safety measures to meet the requirements of local regulations. This Sheet is not an exhaustive document or a substitute for the relevant laws and regulations, and is provided for information purposes only. Safety measures will depend on the specific conditions of each job.

Please also refer to product Safety Datasheets and Good Practice Guidelines which are available on the website [osh.cosentino.com](http://osh.cosentino.com), or request such documents from the distributor or manufacturer.

## Main risks and preventive measures in warehouses

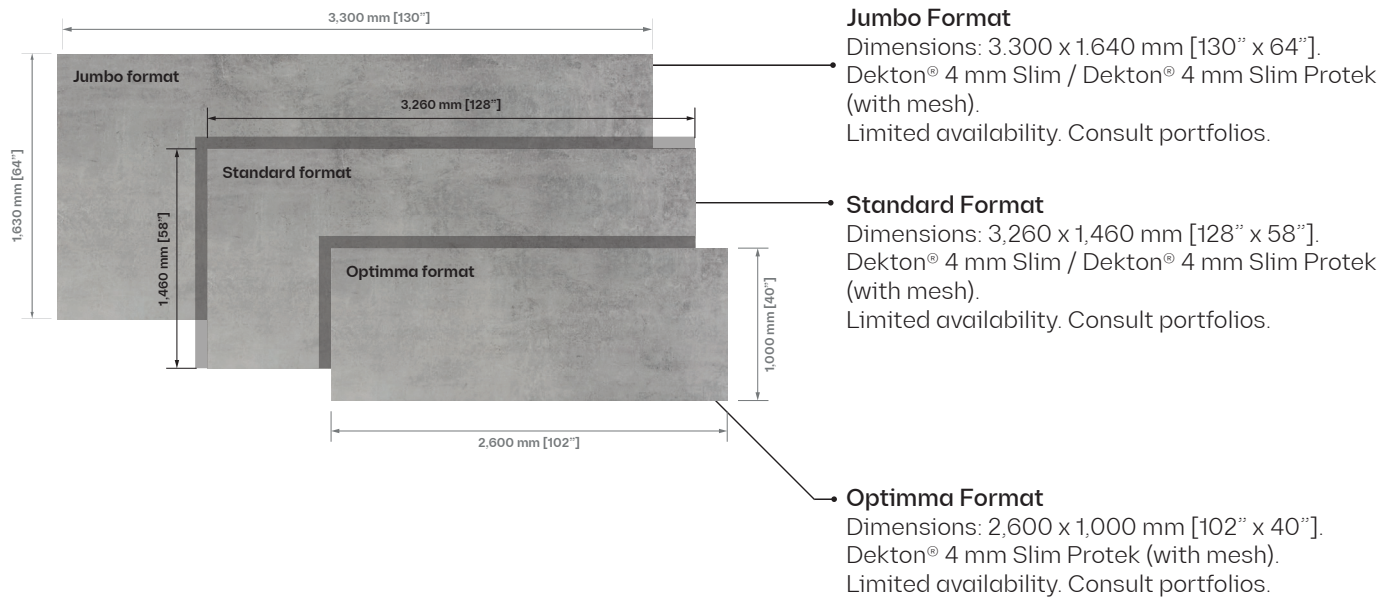
- Do not throw the slabs.
- Do not knock the slabs.
- Remove broken slabs/parts.
- Wear safety goggles and cut resistant gloves (minimum cut resistance level 4 according to EN 388).
- **WARNING:** The material can be very sharp, especially the broken pieces.
- Waste material should be handled with care.
- Avoid banging the waste material to reduce its size, as a broken piece could break off.



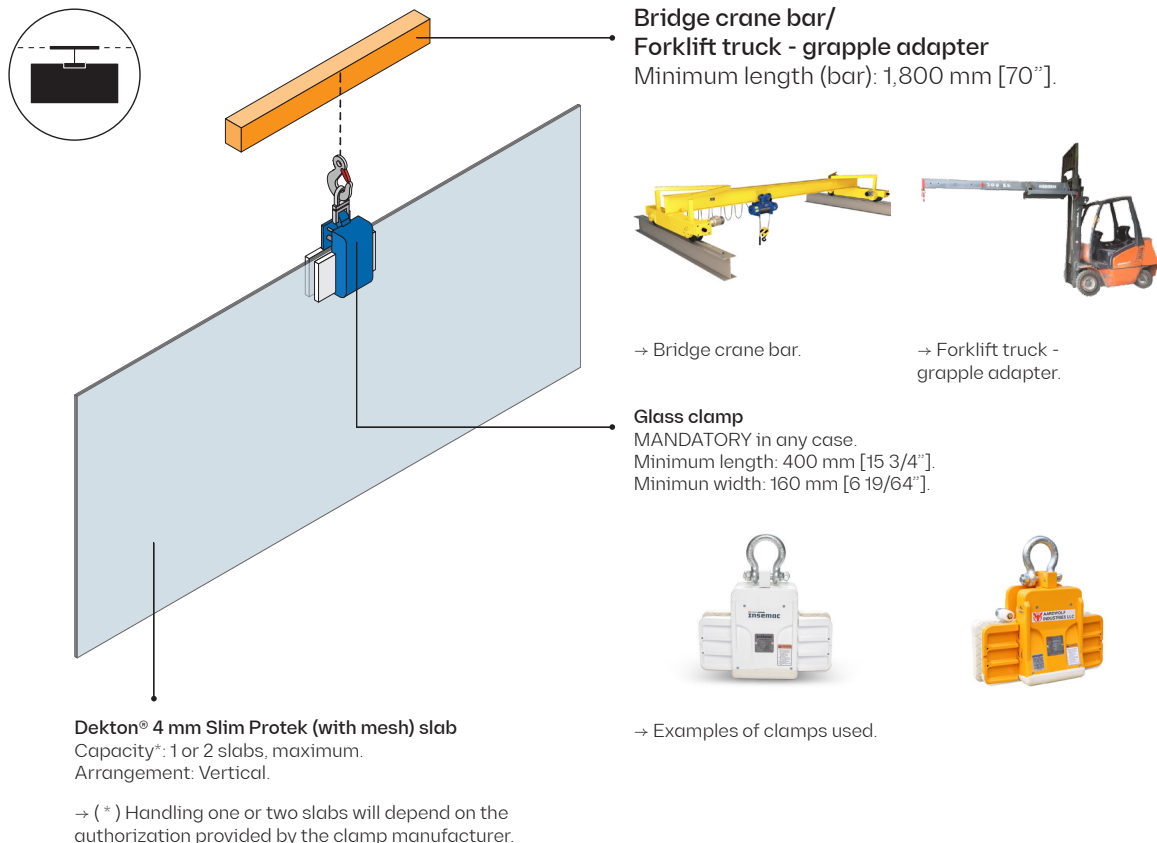
# 1. Slab characteristics

## A. Slab dimensions

Dekton® Slim, with a thickness of 4 mm, is available in two formats:

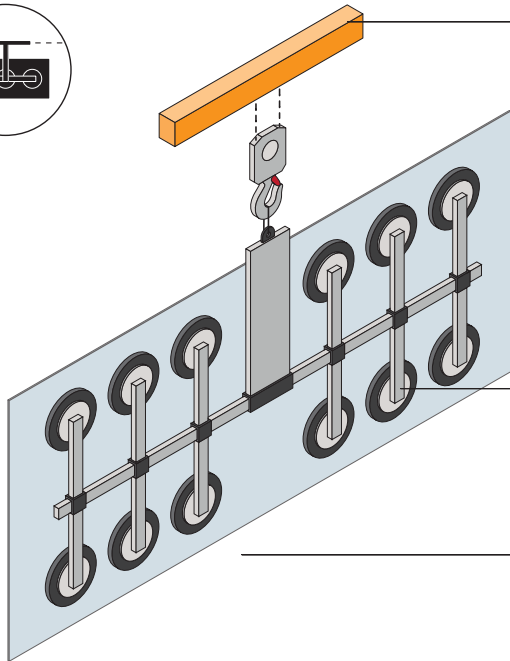


## B. Dekton® 4 mm Slim Protek (with mesh) slab handling



### C. Dekton® 4 mm Slim (without mesh) slab handling

The handling of individual slabs while loading or unloading them must be carried out in accordance to the following process:



**Bridge crane bar**  
Minimum length (bar): 1,800 mm [70"].



→ Bridge crane bar.




**Vacuum suction cups**  
For this type of slabs, only vacuum suction cups are allowed for handling.  
Recommended pressure: - 0.6 bar to - 0.7 bar.  
No. of vents (min): 6

**Dekton® 4 mm Slim (without mesh) slab**  
Capacity: 1 slab, maximum.  
Arrangement: Vertical.

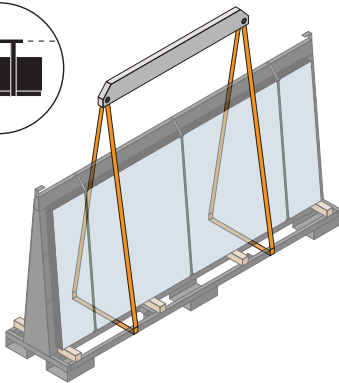
## 2. Transportation from HQ to Center/Hub/Customer

### A. A-Frame types

Depending on the order requirements, the following A-Frame types are available:

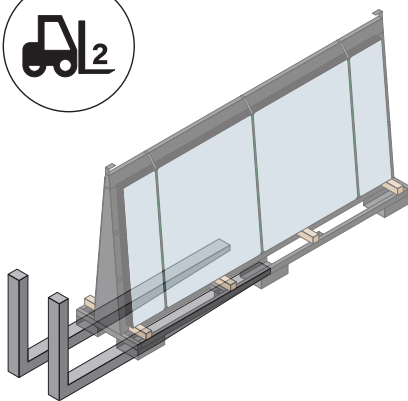
Load						
		Metal A-Frame 260	Metal A-Frame 320	Metal A-Frame "Superjumbo"	Wooden A-Frame	3A type A-Frame
Dekton® Optimma	Mín.	10	-	-	10	1
	Máx.	50	-	-	40	20
Dekton® 4 mm Slim	Mín.	-	20	20	10	1
	Máx.	-	40	40	25	20
Dekton® 4 mm Jumbo	Mín.	-	-	20	10	1
	Máx.	-	-	40	40	20
Remarks		Returnable			Non-returnable	When loads are configured to include Dekton® 4 mm Slim with other thicknesses, these slabs must be placed on the outside of the A-Frame

### B. A-Frame handling



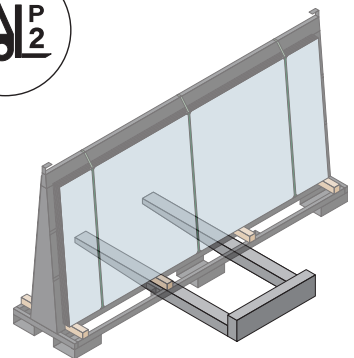
#### A. Load slings

When possible, the movement by means of load slings is advisable to facilitate the displacement of the A-Frame



#### B. Forklift truck (2 forks) | Short side

Movement of the A-Frame on the short side.  
 Minimum fork length: 2,500 mm [100"].  
 Minimum width: 800 mm [31 1/2"].  
 Movement at elevation 0 with blade length equal to 2/3 of the length of the ridge.



#### C. Forklift truck (2 forks) | Long side

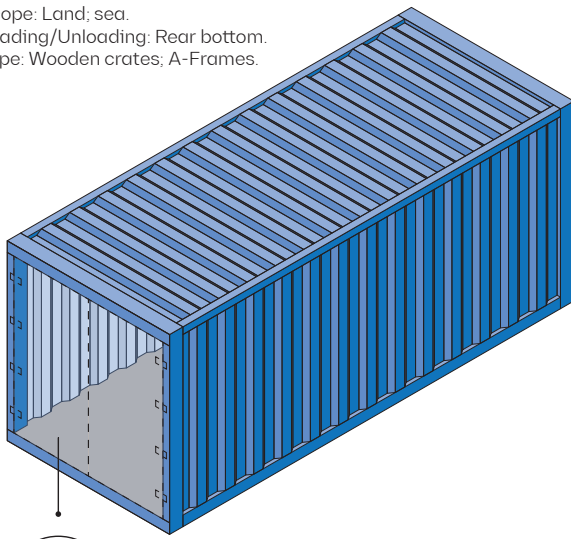
Movement of the A-Frame on the long side.  
 Minimum fork length: 1,200 mm [48"].  
 Minimum width: 1.000 mm [39"].

## C. Loading/Unloading according to the type of transport

Loading/Unloading, in HQ or warehouse, will depend on the type of transport selected. The most common schemes are:

### 1. Container

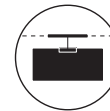
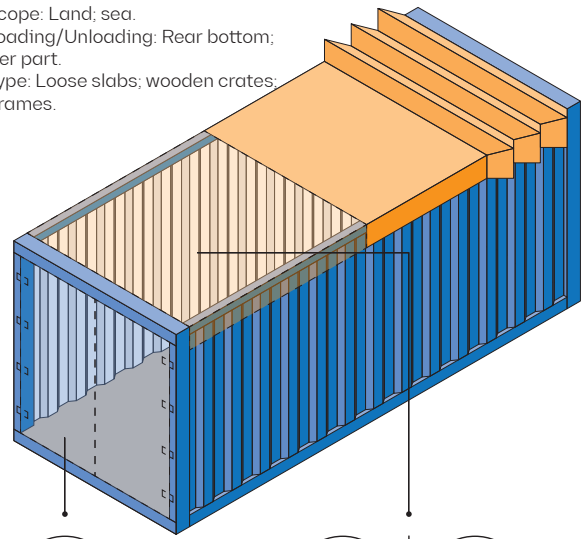
- Scope: Land; sea.
- Loading/Unloading: Rear bottom.
- Type: Wooden crates; A-Frames.



\*Level 0/ Loading dock

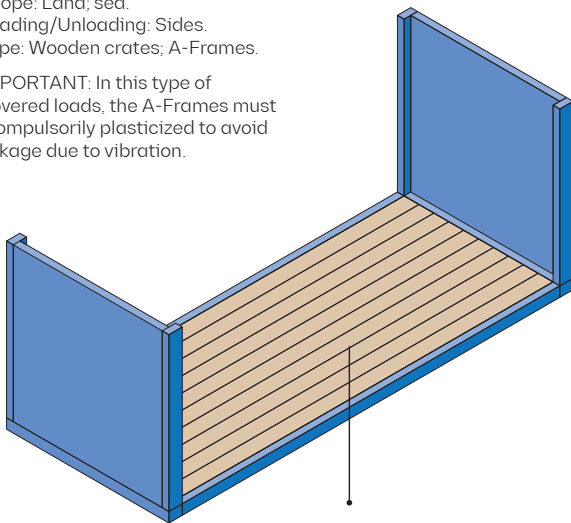
### 2. 'OPENTOP' container/truck

- Scope: Land; sea.
- Loading/Unloading: Rear bottom; upper part.
- Type: Loose slabs; wooden crates; A-Frames.



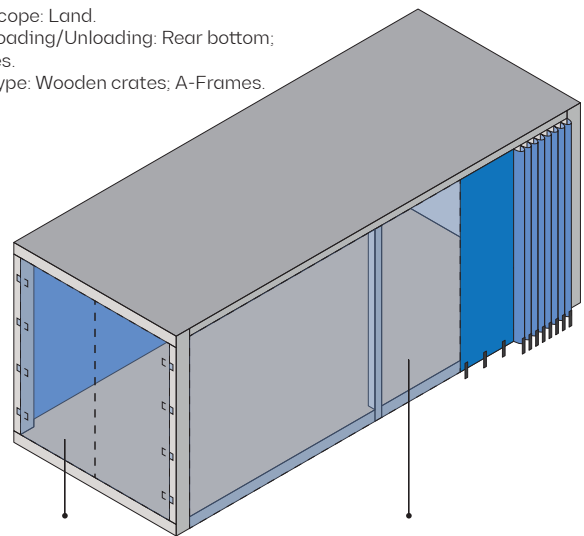
### 3. 'FLAT RACK' container

- Scope: Land; sea.
- Loading/Unloading: Sides.
- Type: Wooden crates; A-Frames.
- IMPORTANT: In this type of uncovered loads, the A-Frames must be compulsorily plasticized to avoid breakage due to vibration.



### 4. Articulated truck with side tarpaulins

- Scope: Land.
- Loading/Unloading: Rear bottom; sides.
- Type: Wooden crates; A-Frames.



\*Check load diagram for forklift truck / bridge crane / boom truck

## D. Securing of the A-Frame once loaded in the container/truck

### 1. Anti-slip strips

First of all, place **4 anti-slip strips** (friction coefficient from 0.6 to 0.8) on the place where the A-Frame beams will rest.

### 2. Type of securing straps

The straps shall be **100% polyester**, with a Lashing Capacity (LC) of 2,500 daN and a STF (Securing Force) of 500 daN. Thickness of 8 mm and width of 50 mm.



### 3. Fixing the A-Frame

Once the A-Frame is in place, use **2 ratchet straps** to secure it to the **truck frame**.

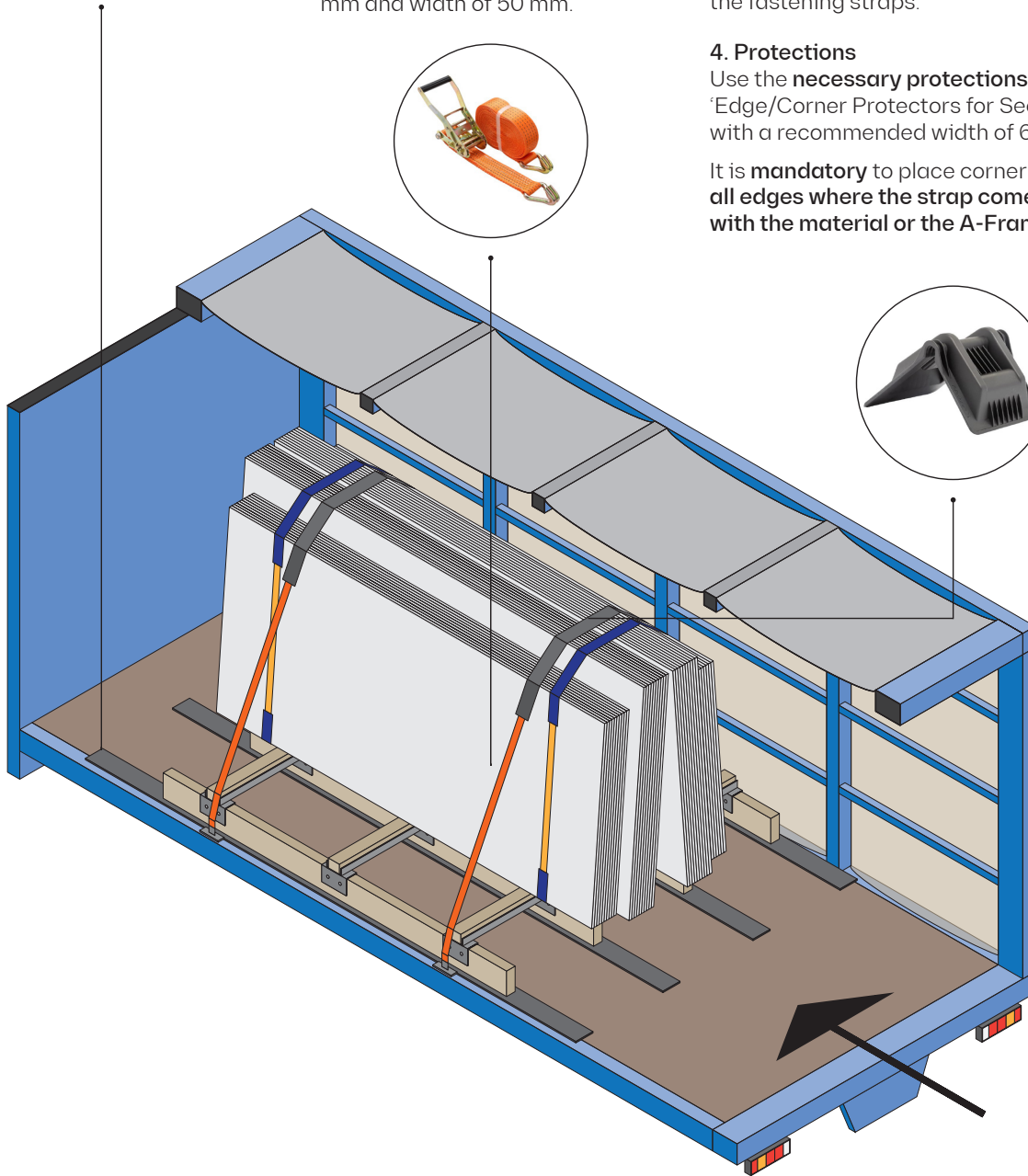
This operation will be carried out by the **carrier**.

**WARNING:** Do not overtighten the fastening straps.

### 4. Protections

Use the **necessary protections**, such as 'Edge/Corner Protectors for Securing Straps', with a recommended width of 67 mm.

It is **mandatory** to place corner protectors **on all edges where the strap comes into contact with the material or the A-Frame itself**.



For more information, details and examples on securing, please refer to the various Specification Sheets (Securing and Stowage, Material Handling Procedure, etc.) available.

## D. Securing of the A-Frame once loaded in the container/truck

### 1. Anti-slip strips

First of all, place **4 anti-slip strips** (friction coefficient from 0.6 to 0.8) on the place where the A-Frame beams will rest.

### 2. Type of securing straps

The straps shall be **100% polyester**, with a Lashing Capacity (LC) of 2,500 daN and a STF (Securing Force) of 5 00daN. Thickness of 8 mm and width of 50 mm.

### 3. Fixing the A-Frame

Once the A-Frame is in place, use **2 ratchet straps** to secure it to the **truck frame**.

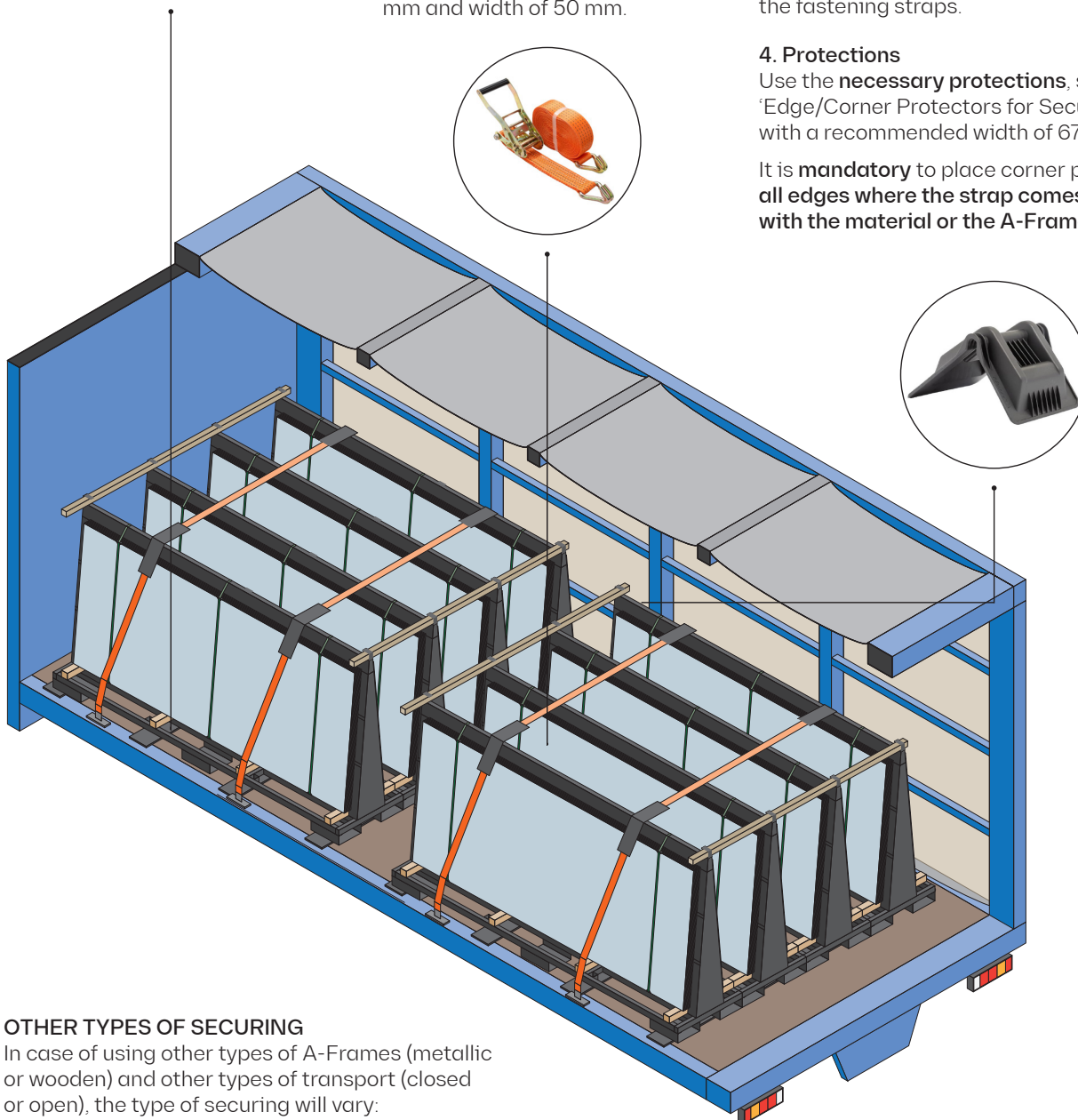
This operation will be carried out by the **carrier**.

**WARNING:** Do not overtighten the fastening straps.

### 4. Protections

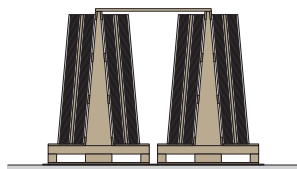
Use the **necessary protections**, such as 'Edge/Corner Protectors for Securing Straps', with a recommended width of 67 mm.

It is **mandatory** to place corner protectors **on all edges where the strap comes into contact with the material or the A-Frame itself**.

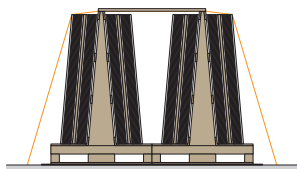


### OTHER TYPES OF SECURING

In case of using other types of A-Frames (metallic or wooden) and other types of transport (closed or open), the type of securing will vary:



→ Securing of cargo in closed containers requires the placement of a wooden beam at the top and stops at the bottom to prevent horizontal sliding.



→ Securing of loads on open platforms requires a wooden beam to be placed on top, the A-Frames to be in contact and the use of common securing straps.



For more information, details and examples on securing, please refer to the various Specification Sheets (Securing and Stowage, Material Handling Procedure, etc.) available.

## E. Maximum capacity of the container depending on the metal A-Frame type

Two types of metal A-Frame are currently available depending on their width:

- a. 550 mm [22"] wide A-Frame.
- b. 750 mm [29 1/2"] wide A-Frame.

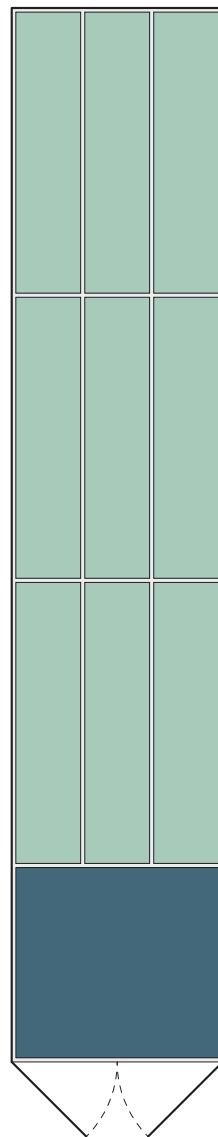
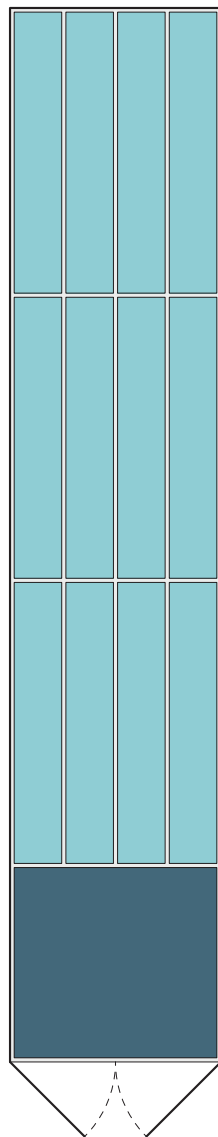
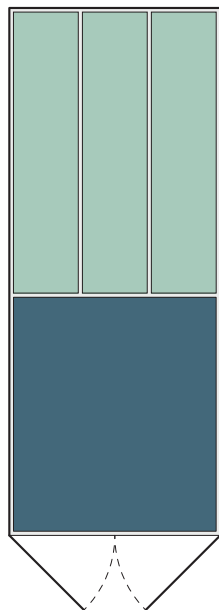
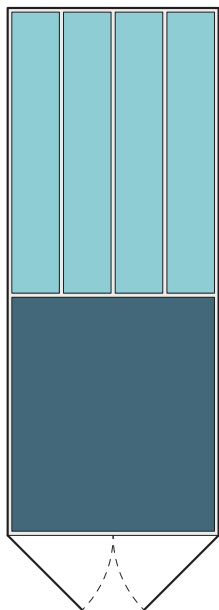
Depending on the A-Frame type used and the size of the container to be filled (20 ft or 40 ft), the loading configurations are:

**1. 20 ft container and 550 mm [22"] wide A-Frame**

**2. 20 ft container and 750 mm [29 1/2"] wide A-Frame**

**3. 40 ft container and 550 mm [22"] wide A-Frame**

**4. 40 ft container and 750 mm [29 1/2"] wide A-Frame**



### No. of A-Frames per container

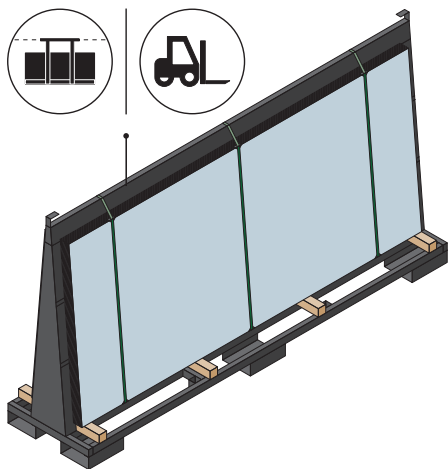
Type of container	550 mm [22"] wide A-Frames	750 mm [29 1/2"] wide A-Frames
20 ft	4	3
40 ft	12	9

### Key

- Metal A-Frame | 550 mm [22"] wide
- Metal A-Frame | 750 mm [29 1/2"] wide
- Other/Cut-to-size items

### 3. Storage & handling of slabs

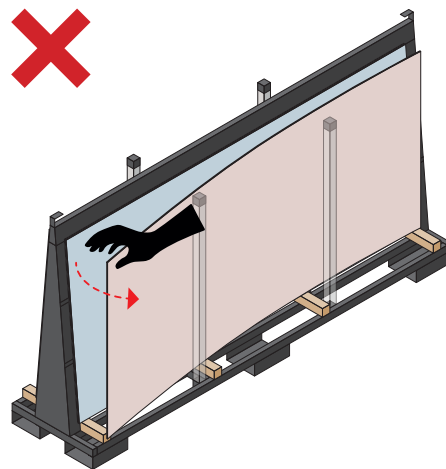
Once in the Center/Customer, the following steps will be followed for the storage and handling of the slabs:



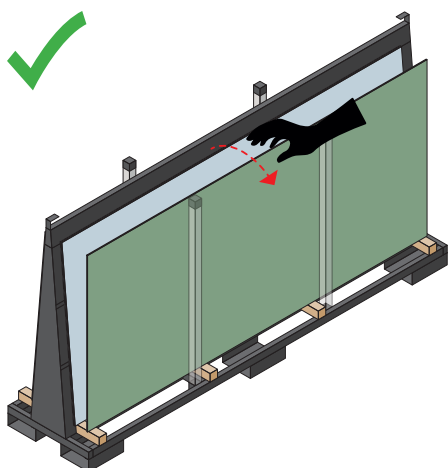
**1. A-Frame storage**  
Once arrived at destination, the A-Frame is unloaded by means of a load sling or forklift truck and then placed in its final storage location.



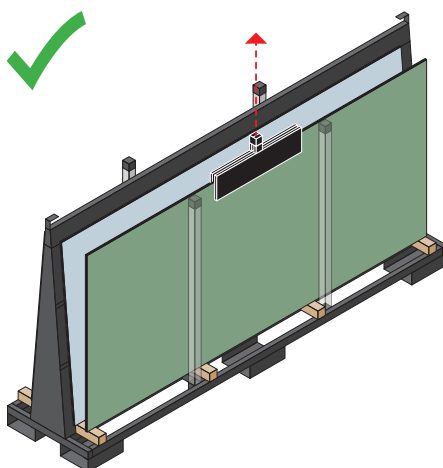
**2. Placement of safety bars**  
Prior to any type of manipulation of the slabs, the corresponding safety bars must be placed.  
**IMPORTANT:** The 550 mm [22"] wide A-Frames do not have anchorages to attach safety bars. Therefore, prior to handling the slabs, these A-Frames must be placed on racks with safety bars.



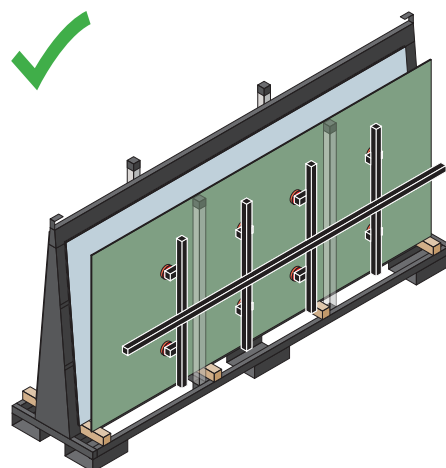
**3a. Manual handling - Slab corners**  
**TOTALLY PROHIBITED.**  
This type of manipulation will cause, with total certainty, the breakage of the Dekton® 4 mm Slim/Slim Protek slab.



**3b. Manual handling - Center of the slab**  
To put the slab in position to hold with the glass clamp, two hands must carefully be used in the middle of the slab.



**4a. Handling with glass clamp**  
The displacement of one or two slabs must be done vertically, preferably by means of the glass clamp.  
**IMPORTANT:** Mandatory for Dekton® 4 mm Slim Protek (with mesh).



**4b. Handling with suction cups/ manual suction cups**  
It must be performed with a minimum of 6 suction cups, distributing the pressure and support points as much as possible.  
Manual handling with suction cups should be carried out with 'EasyTrans'-type bars.  
**IMPORTANT:** Mandatory for Dekton® 4 mm Slim (without mesh).

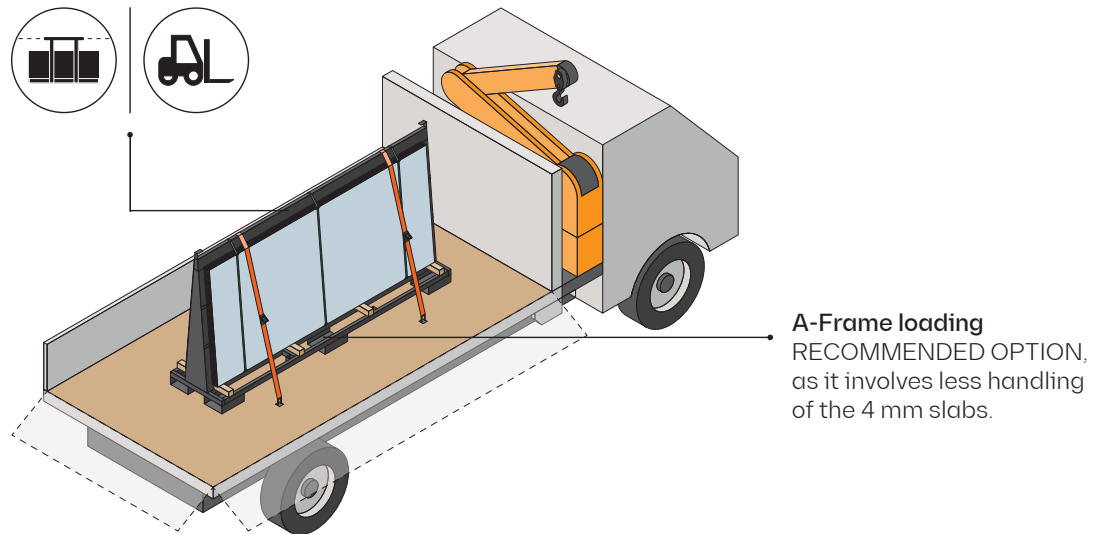
## 4. Transportation from Center/Hub to Customer

### A. Types of delivery to customer

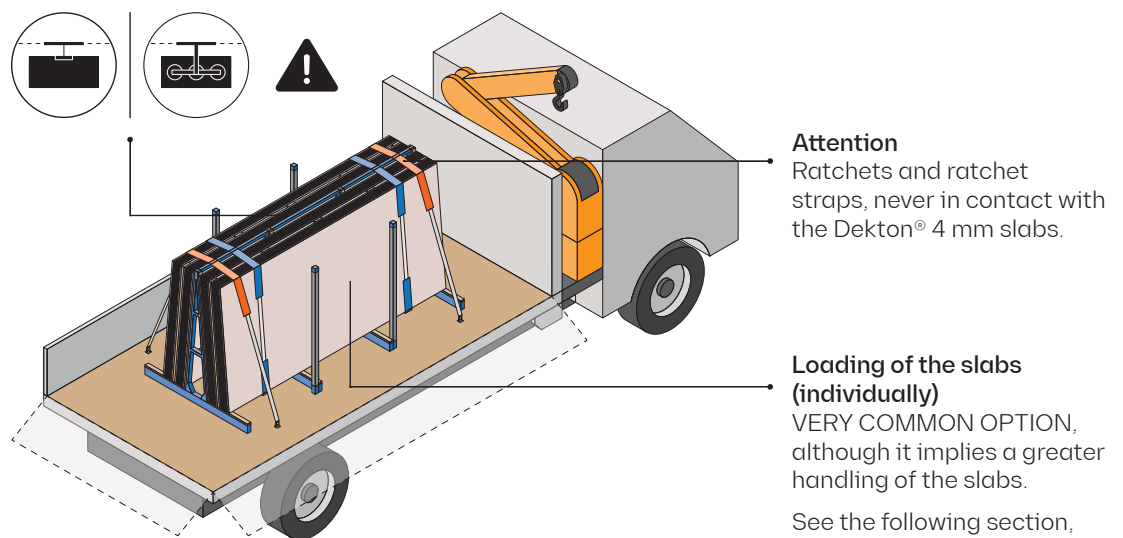
The recommended delivery option would be by sending the original A-Frame to the customer, as excessive handling with this thickness of slab should be avoided. However, it may be the case that a A-Frame is fixed to the delivery truck and has to be loaded slab by slab.

It is very important to take into account whether the material to be handled is Dekton® 4 mm Slim Protek (with mesh) or Dekton® 4 mm Slim (without mesh), since, if handling material without mesh on the back face, only vacuum suction cup systems are allowed. Manual handling with suction cups must be carried out with 'EasyTrans'-type bars.

#### 1. Delivery of the original A-Frame



#### 2. Delivery slab by slab (loaded on an A-Frame fixed to the truck)



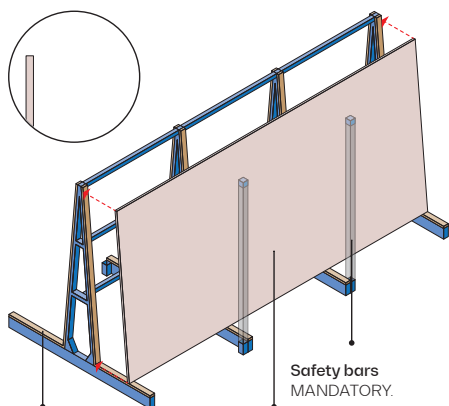
See the following section,  
to load the slabs correctly.

**IMPORTANT:** Depending  
on the type of slab (with  
mesh or without mesh), the  
way to manipulate them  
individually will vary.

## B. Loading process of individual slabs

Ideally, the original A-Frame should be sent to the customer, as the minimum possible handling is recommended with this slab thickness. However, in the case of loading a truck with the A-Frame included, the following steps must be followed:

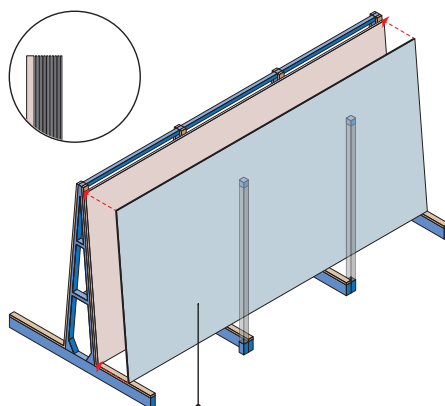
### 1. Base slab



**Protection**  
Wood or nylon, at all points of support of the slab.

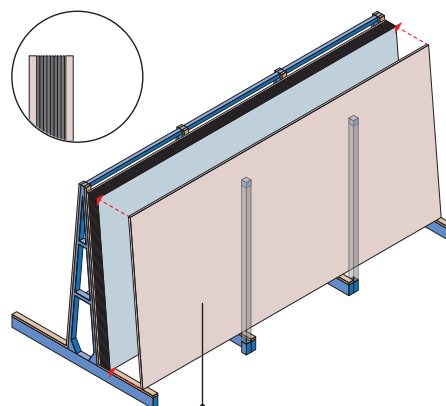
**20 mm slab**  
Dekton® (Recommended).  
Silestone® (Jumbo Format).

### 2. Dekton® 4 mm slabs



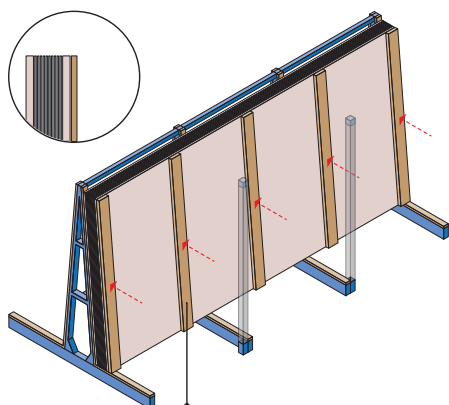
**Dekton® 4 mm slabs**  
A maximum of 10 units can be placed, without facing.

### 3. Closing slab of the badge



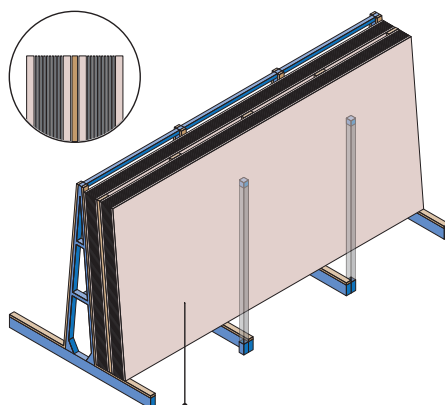
**20 mm slab**  
Dekton® (Recommended).  
Silestone® (Jumbo Format).

### 4. Separation between badges



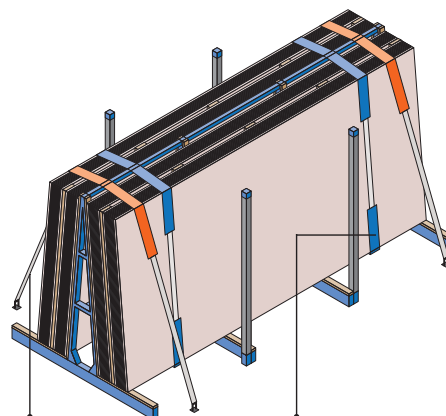
**Calibrated wooden strips**  
Arranged prior to the placement of a second badge.

### 5. Placement of the second badge



**Second badge**  
A maximum of 2 badges may be placed on each side of the A-Frame, by following Steps 1 to 3.

### 6. Slab fastening + A-Frame securing



**A-Frame - truck securing**  
Very important. It is done using 2 ratchet straps. DO NOT OVERTIGHTEN.

**Slabs - A-Frame fastening**  
It is done using 2 canvas ratchets. DO NOT OVERTIGHTEN.

**A-Frame fixing - general**  
Use corner protectors to prevent the tape from coming into contact with the material and to distribute the pressure over a larger surface area.



It is very important to take into account whether the material to be handled is Dekton® 4 mm Slim Protek (with mesh) or Dekton® 4 mm Slim (without mesh), since, if handling material without mesh on the back face, only vacuum suction cup systems are allowed. In addition, manual handling with suction cups must be carried out with 'EasyTrans'-type bars.

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