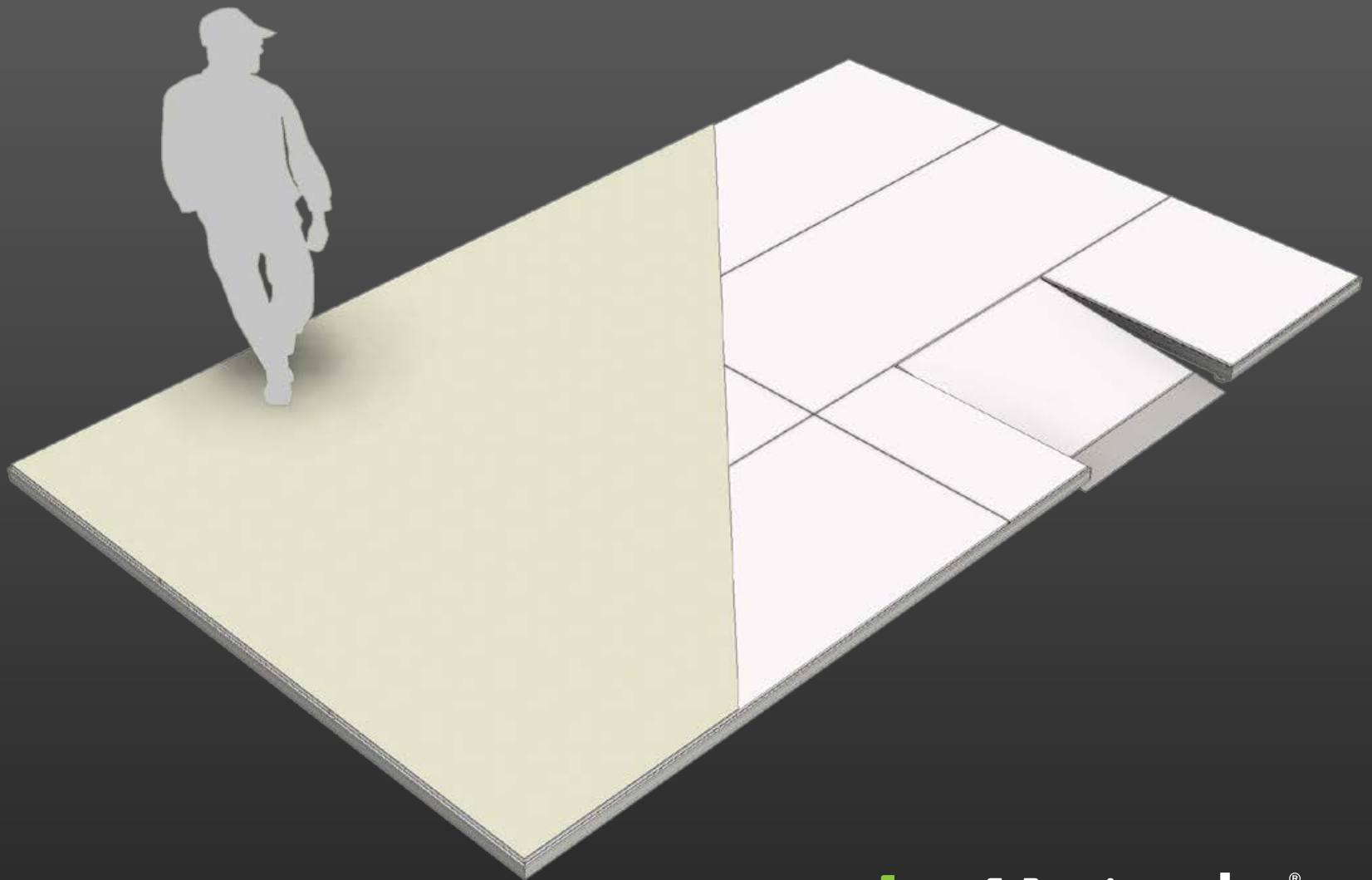


# Floor

How to create a  
beMatrix floor



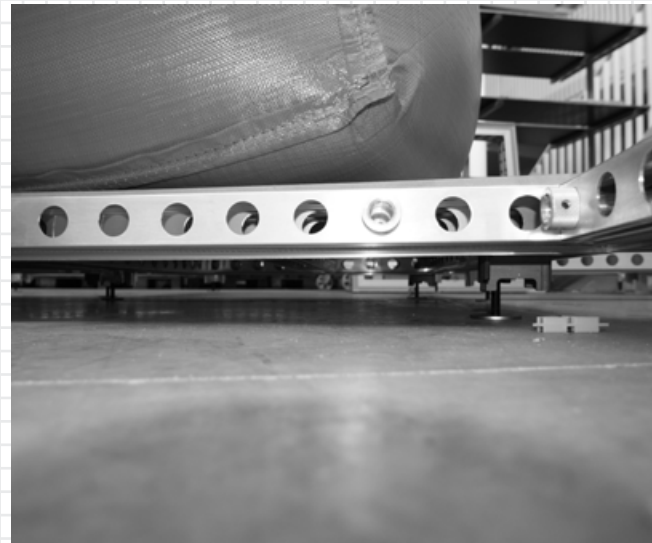
**beMatrix**<sup>®</sup>  
THE RENTAL SOLUTION

# Intro

## Purpose of this leaflet

This document will explain how to build a beMatrix® floor step by step. Tests were executed and beMatrix® floors are certified to hold a weight up to 102.4 lbs. per ft<sup>2</sup> (500 kg per m<sup>2</sup>).

Allowing you to reuse your current inventory of existing wall frames to build floors, we hope to inspire your creativity and design capabilities. Contact our technical department with any questions or concerns.



## TECHNICAL REPORT

PHYSICAL TEST RESULTS OF DMK AND B62 FRAMES COMBINED WITH DIFFERENT FILLER PLATES



[Click here to download this document](#)

# INDEX

## Summary of topics to be discussed

<b>Chapter 1</b>	Frames Used as a Floor
<b>Chapter 2</b>	Connectors, Levelers & Spacers
<b>Chapter 3</b>	Rules of thumb for placing the feet
<b>Chapter 4</b>	Support Profiles
<b>Chapter 5</b>	Number of support profiles required
<b>Chapter 6</b>	Skirting boards
<b>Chapter 7</b>	Ramp
<b>Chapter 8</b>	Curves to floor
<b>Chapter 9</b>	Infills
<b>Chapter 10</b>	References

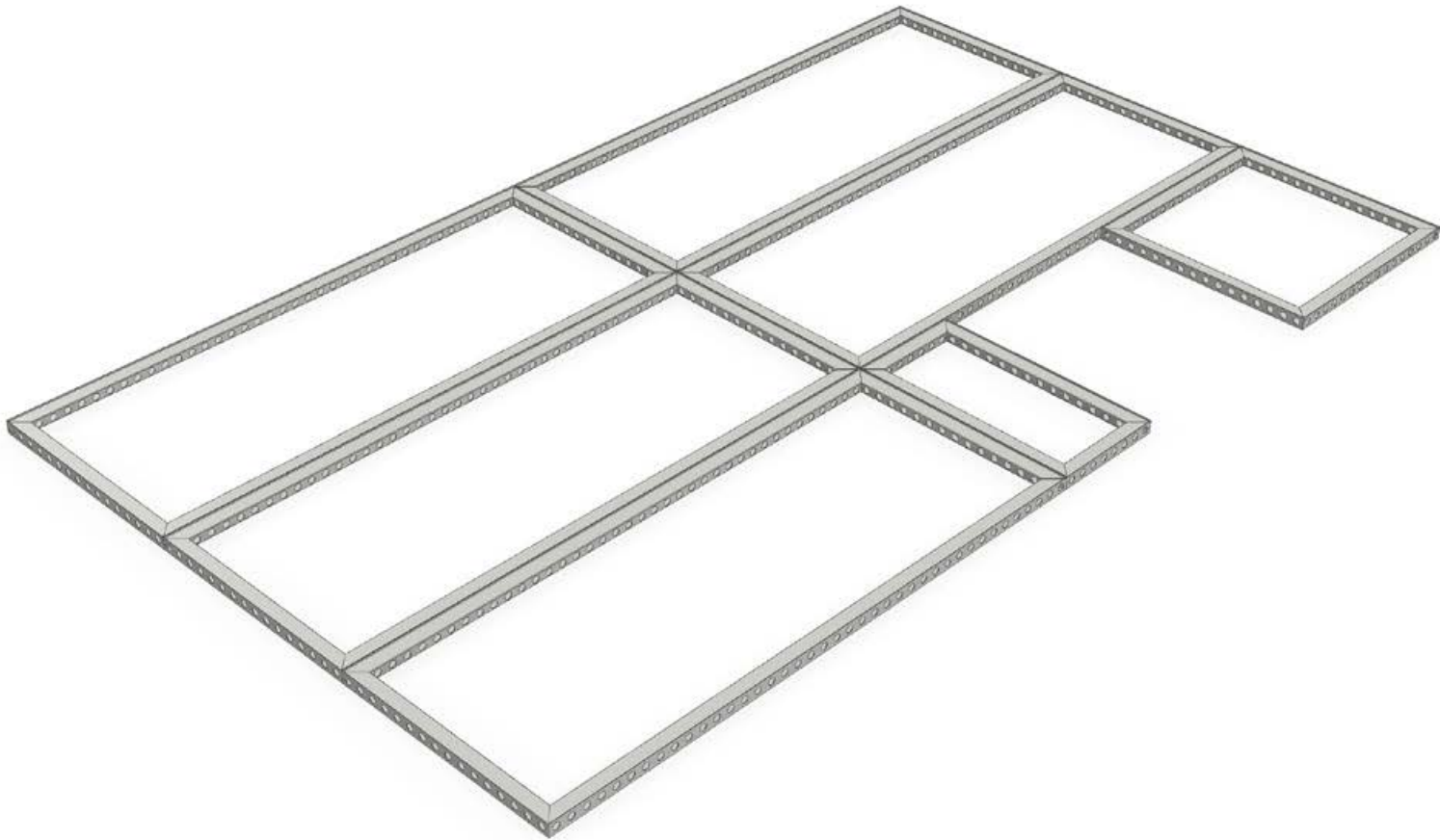
# Chapter 1

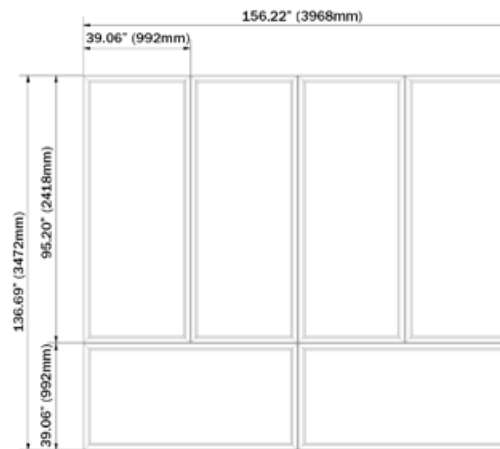
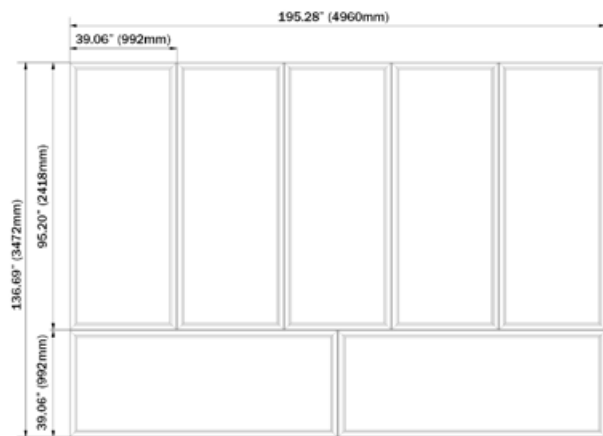
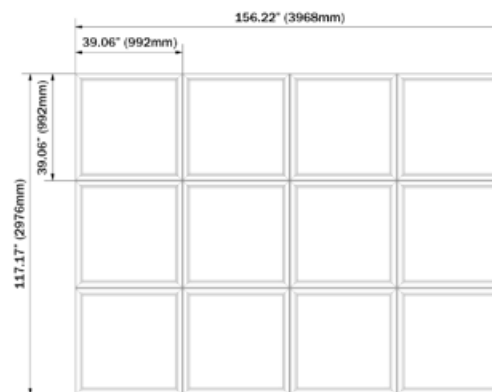
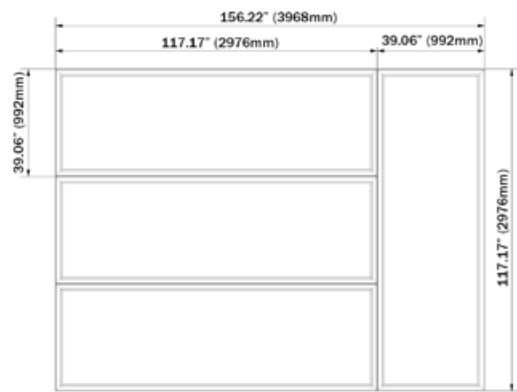
## Frames as a floor

Every size of beMatrix® frames can be used for the floor system.

Depending on the size, you will always require various numbers of feet and floor supports.

The most cost-effective floor is based on frames of 39.06" x 95.2" (1 x 2.4 m).





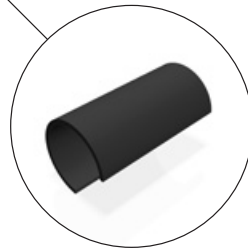
## Chapter 2

### Connectors, Levelers & Spacers

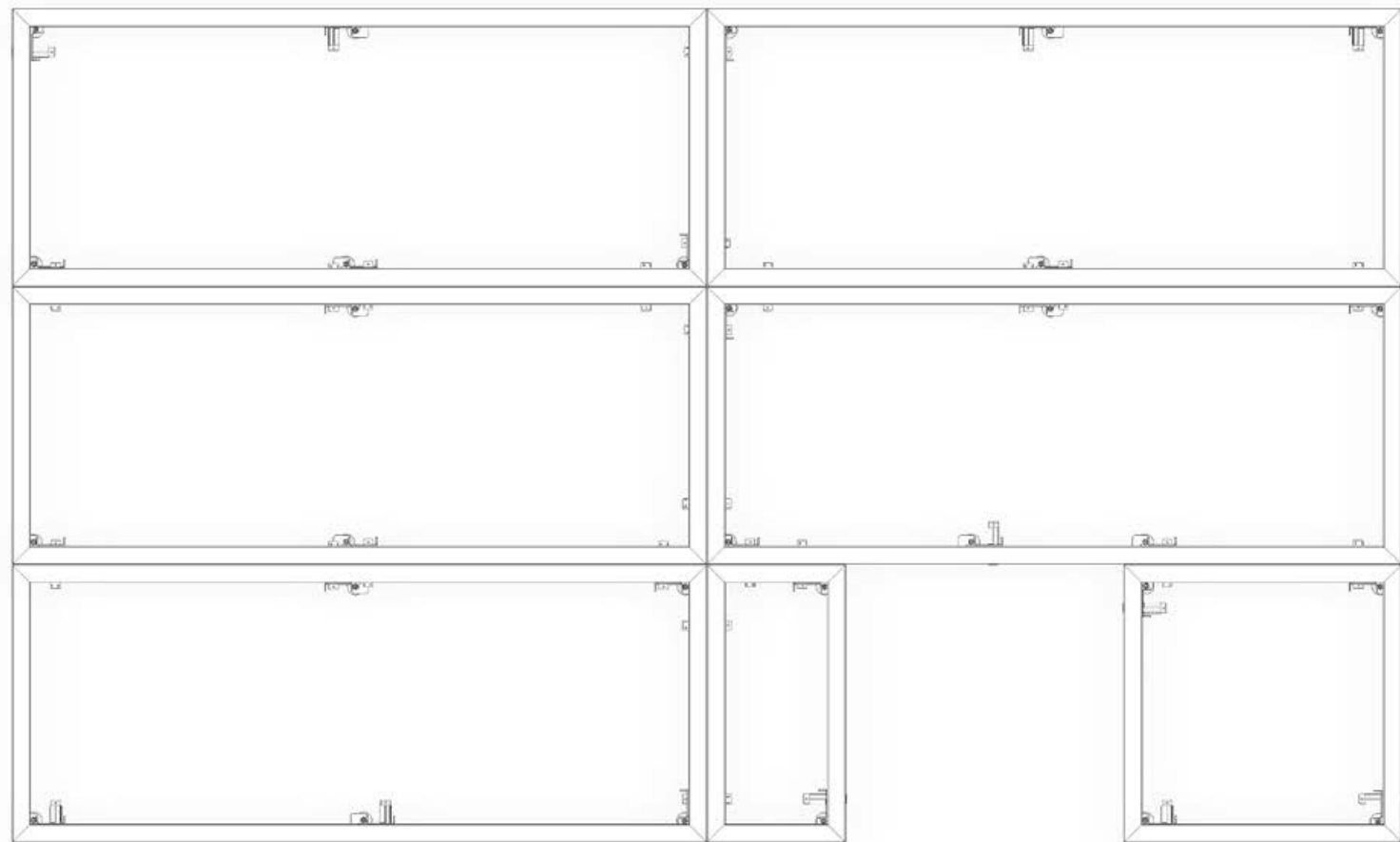
The optional feet enable you to raise the floor 3.94" to 5.9" (10-15 cm).  
If you do not use feet, your floor will be 55 or 62 mm high depending on the beMatrix® frame used.



901 20 010  
ADJUSTABLE FOOT FLOORING SYSTEM  
FOR 62/55MM FRAMES



901 2025 0600 ECO  
EDMOND SPACER D30  
[L=60MM] ECO



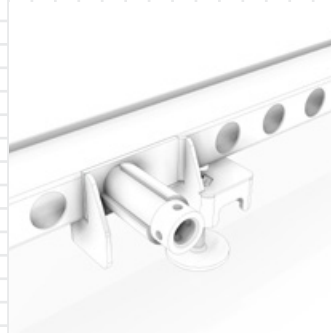
## Chapter 3

### Rules for placing the feet

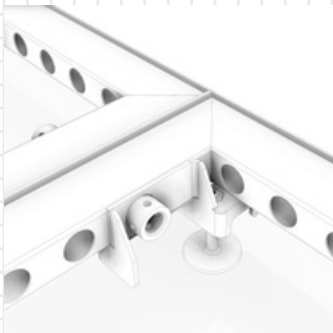
Please adhere to these rules when placing the feet.



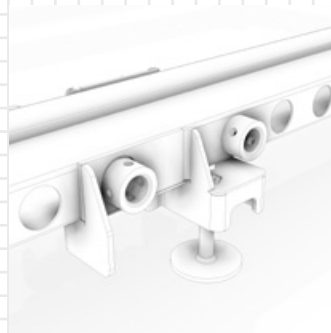
**At each corner: 1 foot**



**In the center of each side:  
1 foot**



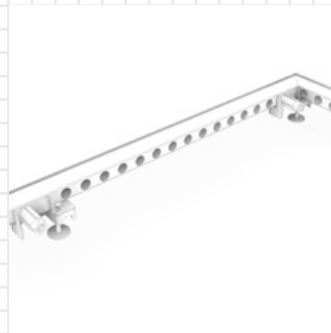
**At each T: 1 foot**



**In the center of 2 frames:  
2 feet**



**At each 'cross': 2 feet  
+ 2 extra D30 clamps**



**Maximum profile span w/o  
feet: 49.21" (1.25 m)**



**At each corner: 1 foot**



**At each T: 1 foot**



**At each 'cross': 2 feet + 2 D30 clamps**



**In the center of each side: 1 foot**



**In the center of 2 frames: 2 feet**



**Maximum profile span without feet:  
49.21" (1.25 m)**



## Chapter 4

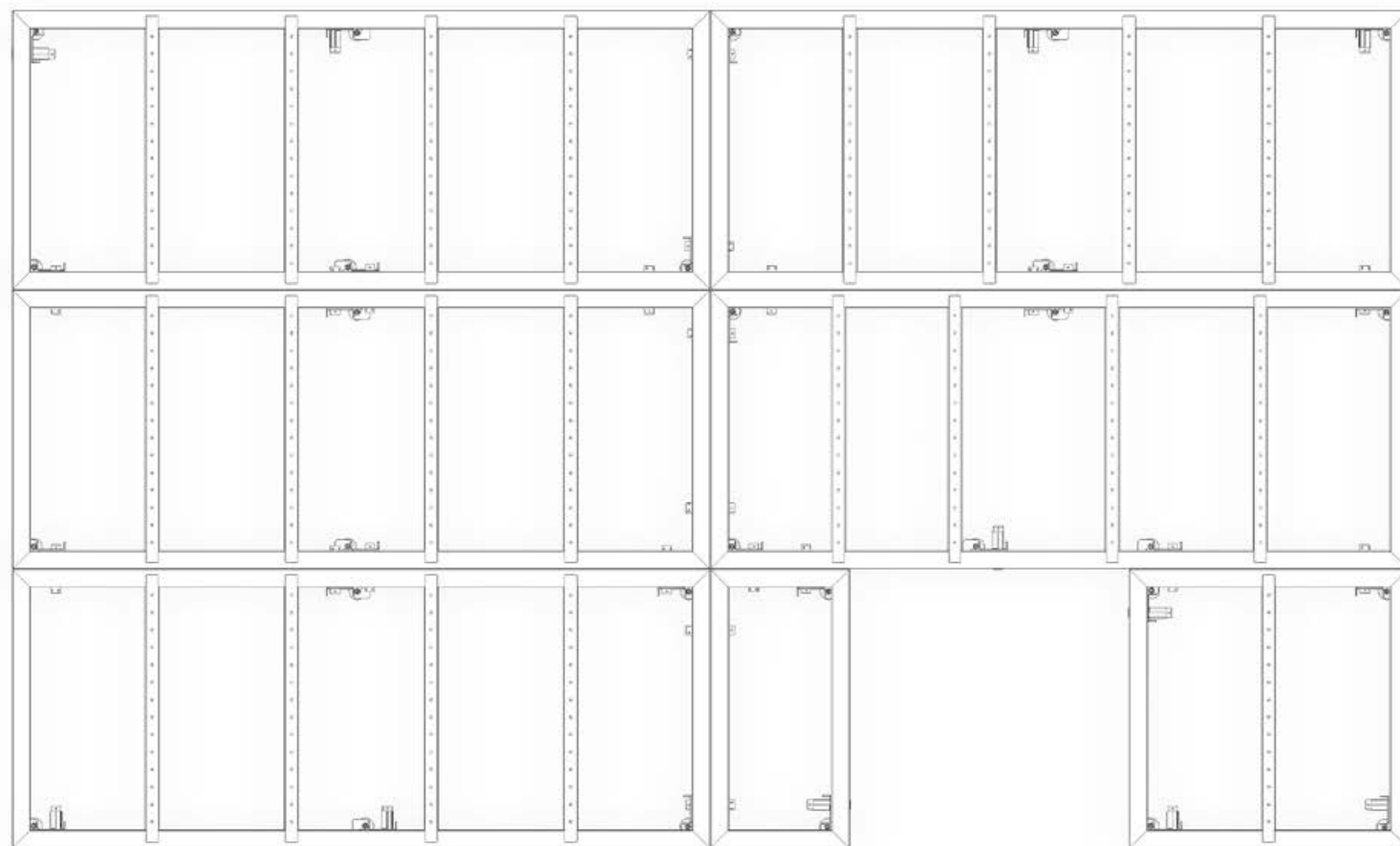
### Support Profiles

The flooring support profile provides additional reinforcement for the floor infills. Depending on the size of the floor frames, you will always need a different number of feet and support profiles.

The support profiles are only available in 39.06" (992 mm).



901 20 020  
FLOOR SUPPORT PROFILE  
REINFORCEMENT FLOORING SYSTEM  
FOR 62/55MM FRAMES

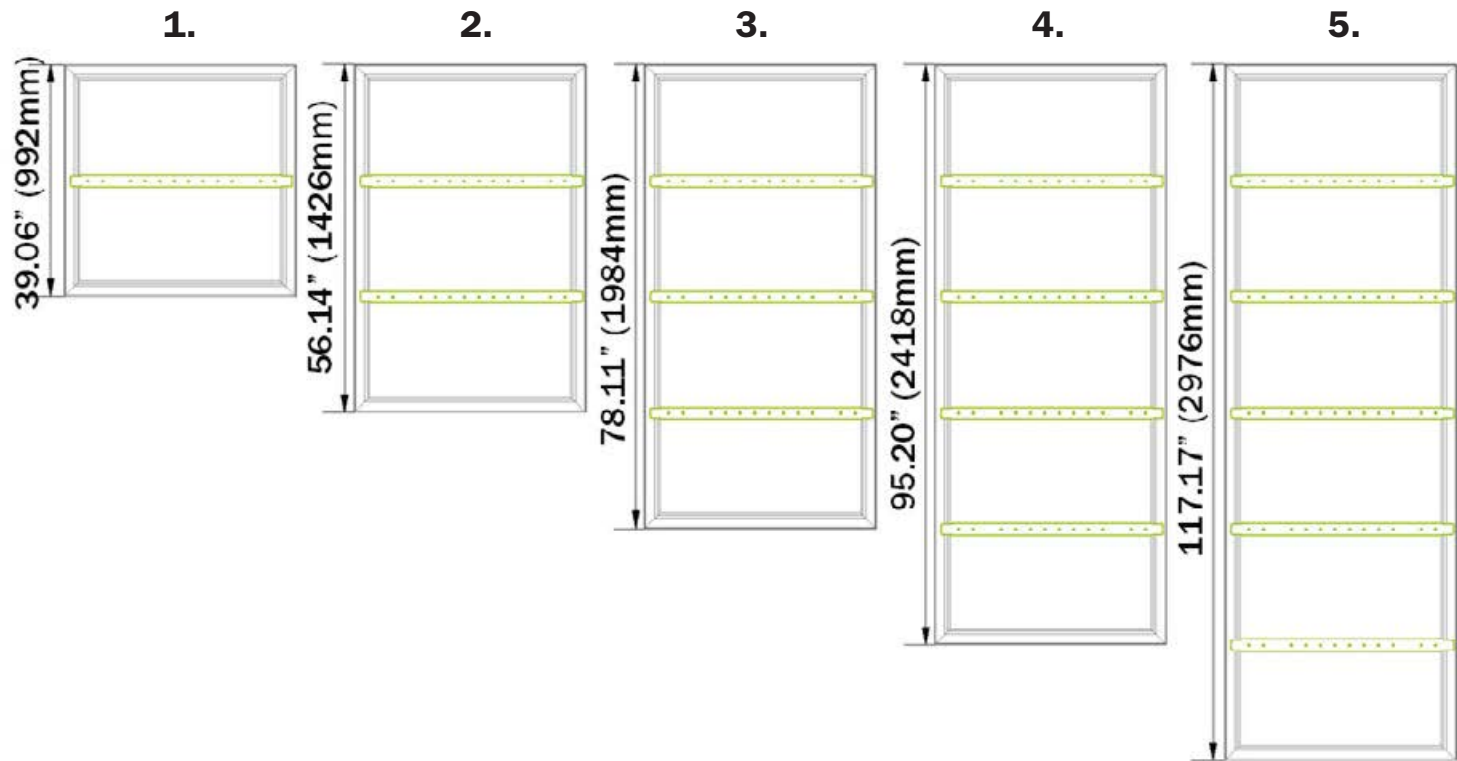


## Chapter 5

### Number of support profiles required

1. 1 x 1 m frame = 1 profile
2. 1 x 1.5 m frame = 2 profiles
3. 1 x 2 m frame = 3 profiles
4. 1 x 2.5 m frame = 4 profiles
5. 1 x 3 m frame = 5 profiles

For other frame dimensions, contact us for a customized solution.



## Chapter 6

### Skirting boards

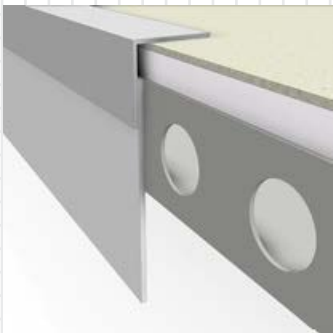
Two common possibilities for covering the frame holes are listed below.



#### 1. Aluminium cover profile

The first possibility is to hide the holes with the beMatrix aluminium cover profile.

By doing so, the underside of the floor is still visible and you can see the edges of your floor infills.



#### 2. Aluminium L-profile with "side skirt"

By using an L-profile combined with a piece of filling material, you can completely cover the sides of the frame, right down to the floor.

\*L-profile can be purchased at your local hardware store.

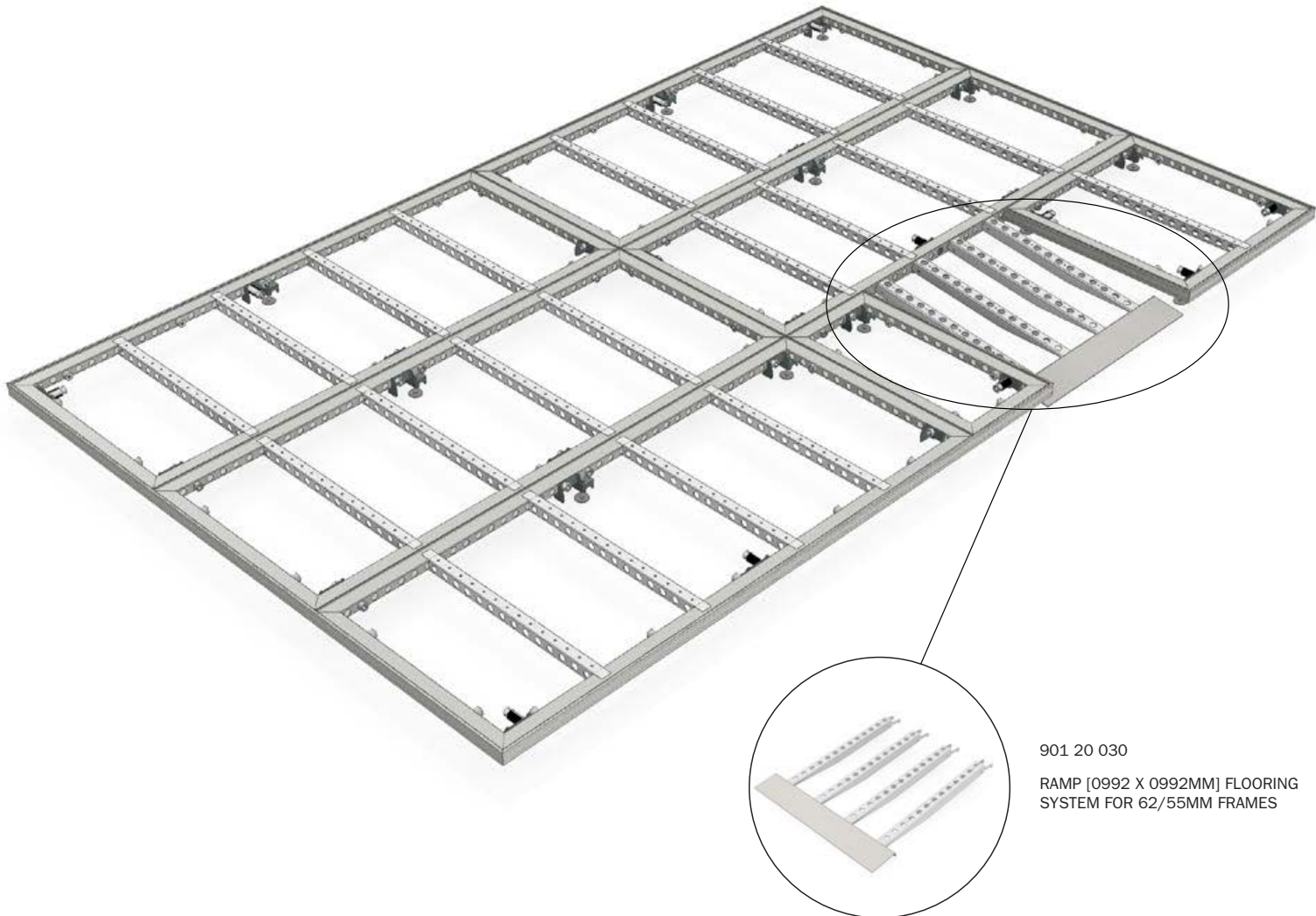
## Chapter 7

### Ramp

Using the beMatrix ramp makes allows easy accessibility for wheelchairs.

The ramp is certified to hold 102.41 lbs. per ft<sup>2</sup> (500 kg per m<sup>2</sup>), or the equivalent of a car weighing 2 tons.

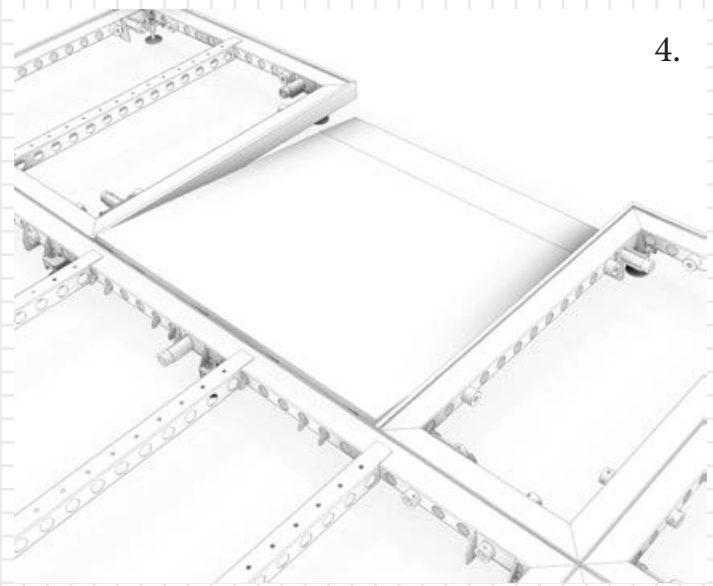
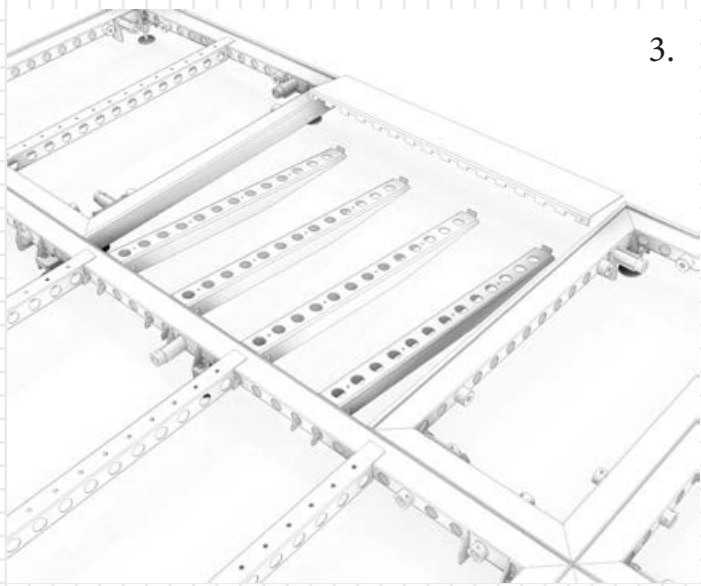
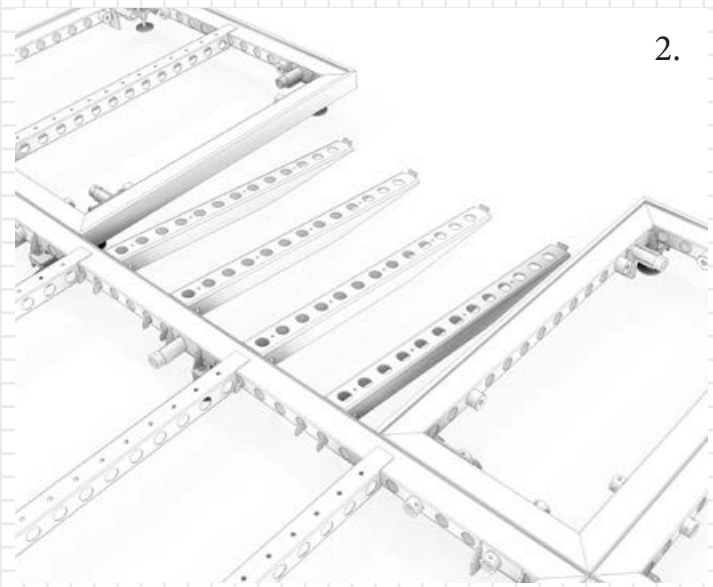
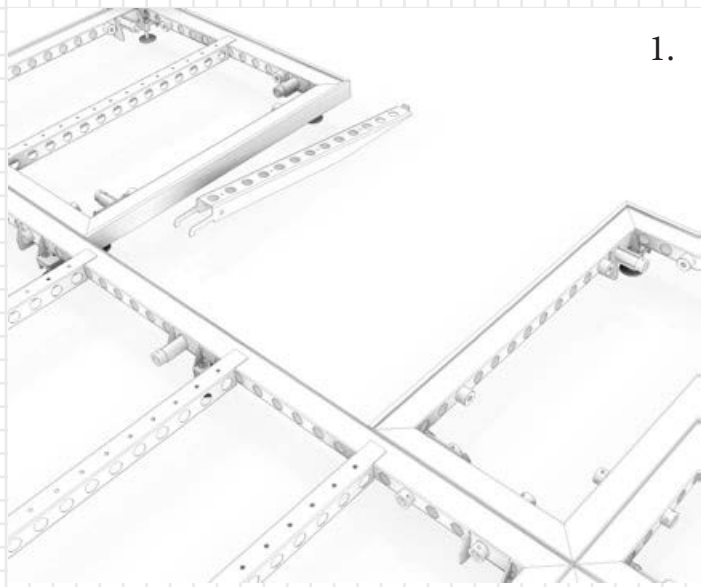
beMatrix offers two size ramps. One ramp integrates seamlessly into your current standard rental inventory [901 20 030] and is 39.06" x 39.06" (992 x 992mm). An ADA certified ramp [901 20 030 USA] at 39.06" x 55.94" (992 x 1421mm) is also available.



901 20 030

RAMP [0992 X 0992MM] FLOORING  
SYSTEM FOR 62/55MM FRAMES





## Chapter 8

### Curves to floor

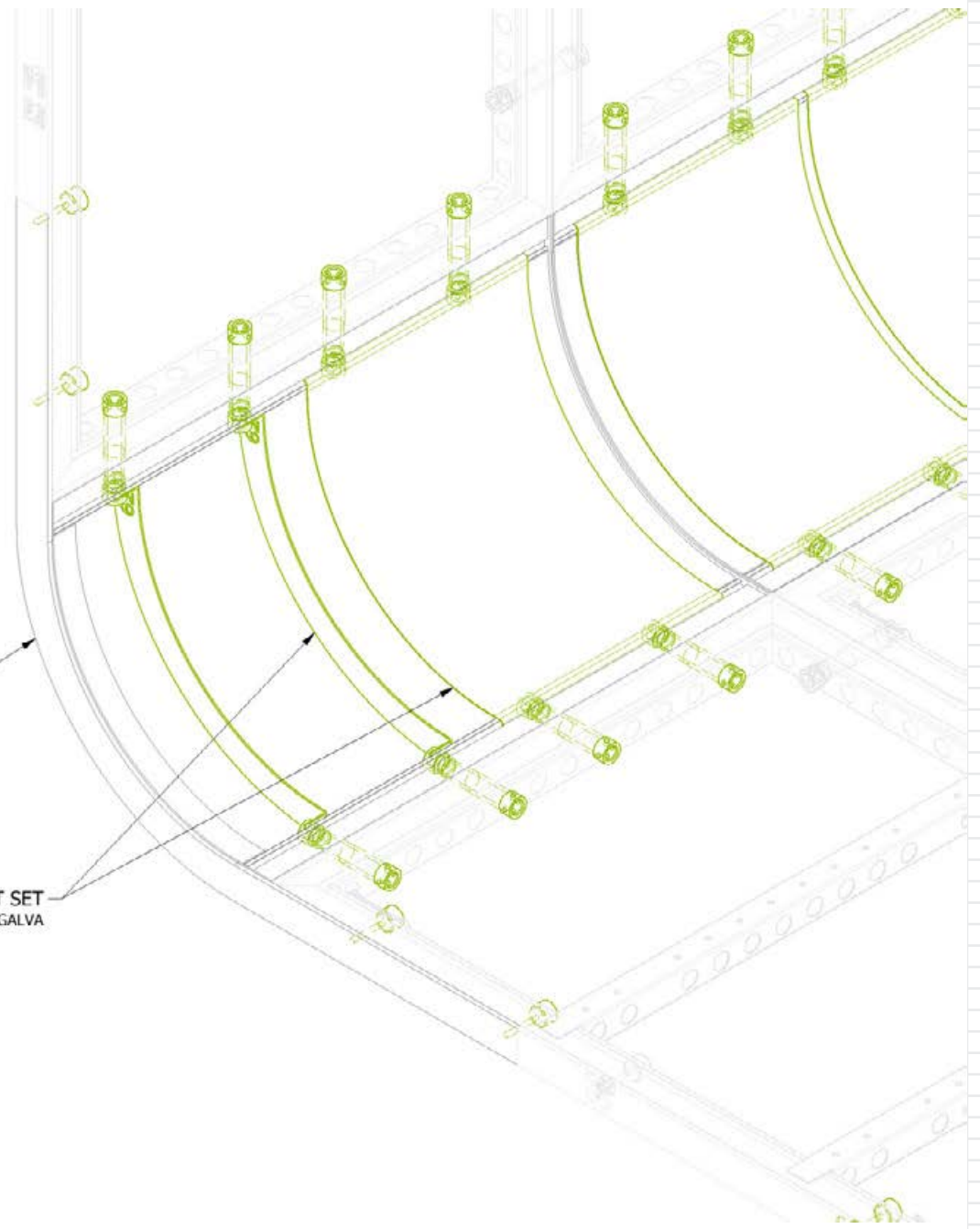
beMatrix® curved frames can transition seamlessly into the beMatrix® floor frames.

Thanks to the use of the curved floor support, damages to the curved infills are avoided.



608 R0496 RAL  
b62 STEEL COVER R0496 [0992X0992MM] RAL

688 0496 SUPPORT SET  
b62 CURVED FRAME 90° SUPPORT SET [W=436MM] GALVA



## Chapter 9

### Infills

Various types of materials can be used to finish the floor. Here are a few examples.

There is no need to use velcro on these infills!



#### **Plate material of 10 to 18 mm thick**

Using plate material such as plywood, MDF and fiber boards, you can reuse the base material and finish each floor in a different way. Finishes can be: parquet, vinyl, carpet, etc.

Note that your floor will have less bounce to it when using 18 mm thick plate material.

We obtained the best results with plywood.



#### **HPL panel of 6 to 10 mm thick**

By using an HPL panel on the frames, you can use a finish that is identical to the walls and ceilings.

Because HPL has such a high level of finish, there is no need for an additional cover.



#### **Plate material of 10 to 18 mm thick with milled indentation**

By an additional milling in your plate material, you obtain a very fine, barely visible seam. This way, an extra finishing layer can be avoided.

# Chapter 10

## References



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**THE RENTAL SOLUTION**

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