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DOMES FOR YOU

ENGINEERED & MANUFACTURED IN GERMANY BY GERMANDOMES

GEO 5.0

ASSEMBLY INSTRUCTIONS

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ASSEMBLY INSTRUCTIONS

Delivery & Preparation

Rings, Door Frame & A-Row

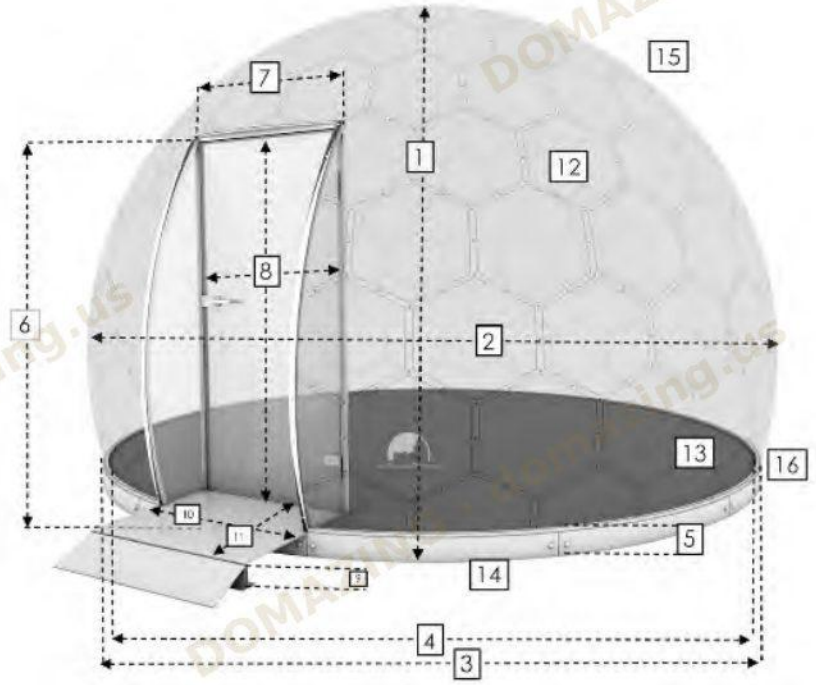
Panel Assembling from the Inside of the Dome

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Technical Specifications

1 GEO 5 Overall Height: approx. 126 in (320 cm)

2 Dome Diameter: approx. 197 in (500 cm)

3 Outer Ring Diameter: approx. 191 in (485 cm)

4 Inner Ring Diameter: approx. 187 in (475 cm)

5 Inner / Outer Ring Height: approx. 4.7 in (12 cm)

6 Door Frame Height: approx. 85 in (215 cm)

7 Door Frame Width: approx. 42 in (106 cm)

8 Tempered Glass Door: 77.6 × 37.4 in (197 × 95 cm)

9 Door Platform Height: approx. 4.7 in (12 cm)

10 Door Platform Width: approx. 41 in (104 cm)

11 Door Platform Depth: approx. 29 in (74 cm)

12 Interior Volume: approx. 1,625 ft³ (46 m³)

13 Usable Floor Area: approx. 194 ft² (18 m²)

14 Footprint Area: approx. 199 ft² (18.5 m²)

15 Polycarbonate Panel Thickness: 0.12 in (3 mm)

16 Foundation Ring Circumference: approx. 600 in (15.24 m)

17 Total Weight: approx. 1,100 lb (500 kg)

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ASSEMBLY INSTRUCTIONS

Before You Begin

How long does assembly take?

Typically assembly takes 6–9 hours

How many people are required for assembly?

We recommend at least 2 people for assembly

What tools are required for assembly?

- Cordless drill / driver
- 5/16 in wrench or socket wrench (equivalent to 8 mm)
- 3/4 in wrench or socket wrench (equivalent to 19 mm)
- Ladder
- T25 Torx driver bit

What is the minimum required installation area?

A level circular installation area with a minimum diameter of 16.4 ft 5 m) is required

IMPORTANT

Please follow the assembly instructions carefully.

Improper assembly may result in product damage, property damage, or personal injury.

SAFETY

Exercise caution when using and climbing ladders

Always follow safe working practices to prevent accidents and injuries

Delivery & Preparation

Safety Instructions

Please read this manual completely before beginning assembly of the GEO3.7 Dome. Failure to follow these instructions may result in property damage, personal injury, or serious injury.

GENERAL SAFETY

- Read and understand all instructions before starting assembly.
- Keep children, pets, and unauthorized persons away from the installation area.
- Do not modify or alter structural components unless specifically instructed in this manual.
- Maintain a clean and organized work area throughout assembly.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Wear safety gloves, safety glasses, sturdy non-slip footwear, and appropriate work clothing during assembly.

LADDER SAFETY

- Always place ladders on a stable, level surface.
- Never stand on the top step of a ladder.
- Do not overreach while working from a ladder.

WEATHER CONDITIONS

- Do not assemble the dome during high winds, rain, thunderstorms, snow, or icy conditions.
- Polycarbonate panels may act like sails in windy conditions and should be secured during installation.

PANEL HANDLING

- Handle polycarbonate panels carefully to avoid scratches and damage.
- Store panels on a clean, flat surface before installation.
- Remove protective film only when instructed during assembly.

SITE PREPARATION

- Ensure the installation area is level, stable, and free from obstacles.
- Verify that adequate clearance exists around the dome before assembly.

WARNING

Failure to follow these instructions may result in property damage, personal injury, serious injury, or death.

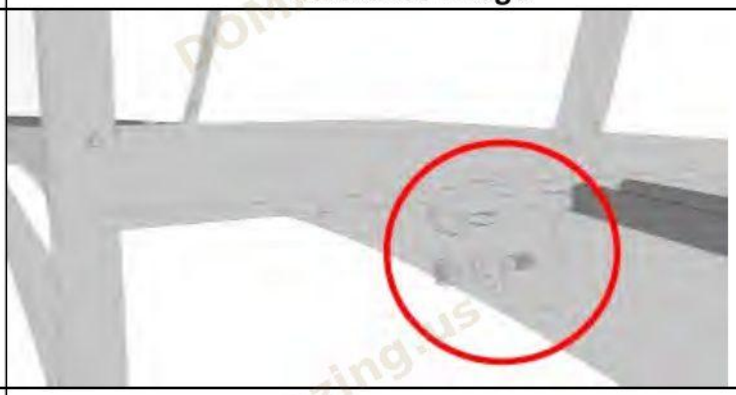
Packing List / Parts Overview

Customer: _____

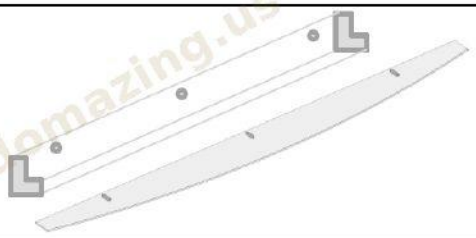
Component	Description	Qty	Checked
RING COMPONENTS			
Outer Ring Sections		8	☐
Inner Ring Sections		8	☐
M12 Bolts	M12	32	☐
PE Spacer	Between Outer & Inner Ring	32	☐
DOOR			
Connection Panel	Door		☐
Side Panels	Door	2	☐
Top Door Panel	Door	1	☐
Lock wiht Key	Door	1	☐
Door Handle	Door	1	☐
PANELS	Row		
	A	8	
	B	23	
	C	24	
	D	23	
	E	24	
	F	20	
	G	15	
	H	10	
	J	5	
	K	1	
	TOTAL	**152**	☐
ADDITIONAL COMPONENTS			
Edge Protection	30 m (98.4 ft)	1	☐
Microfilter	15 m (49.2 ft)	1	☐
Vacuum Grip	1 pc	1pc	☐
Screws	M5 x 12 TX25 Short	500 pcs / 1.4 kg (3.1 lb)	☐
Screws	M5 x 16 TX25 Long	285 pcs / 1.0 kg (2.2 lb)	☐
M5 Combination Nuts	M5 / 15 mm	840 pcs / 2.1 kg (2.8 lbs)	☐

Ring Components

Component	Quantity	Reference Image
Outer Ring Section Small elongated hole	7	
Outer Ring Door Section Electrical access opening	1	
Inner Ring Section Large longated hole	6	
Inner Ring Door Section Electrical access opening	2	

Component	Quantity	Reference Image
Door Fixing Angle	2	
PE Spacer Door	32	
M12 Bolt	32	
Edge Protection (Black)		

Door Components

Component	Quantity	Reference Image
Door Assembly	1	
Door Lock	1	
Door Handle	1	
Door Panel Connector	2	
Door Side Panel	2x	
Door Top Panel	1x	

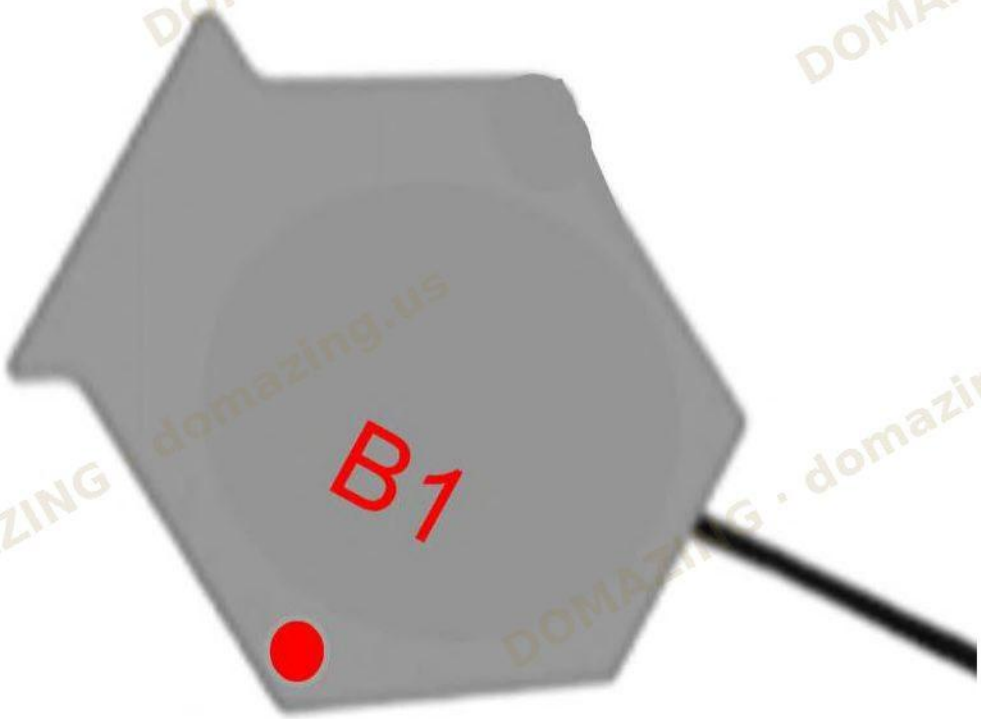
Filter & Fastener Components

Component		Reference Image
Air Filter		
M5 × 12 Panel Screws		
M5 × 16 Panel Screws		
M5 Panel Nuts		

Panel Identification Guide & Orientation

A Poly Panels Qty: 6x	A1 – A8 

Example Poly Panel "B1" **Place of Panel Number Engraving**

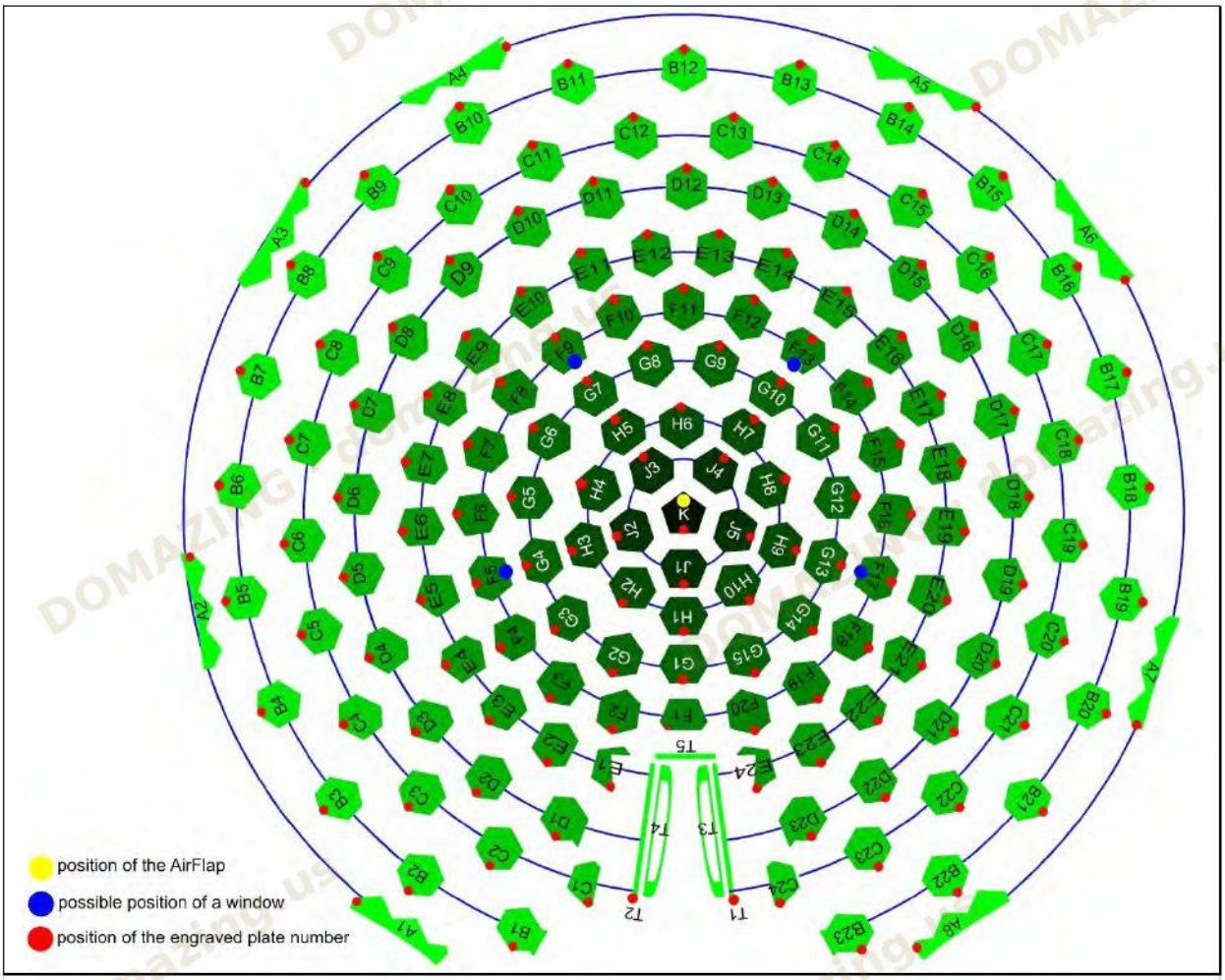


The engraving must be readable from inside the dome.

Poly Panel Layout & Orientation

Panel Row	Quantity
A	8
B	23
C	24
D	23
E	24
F	20
G	15
H	10
G	5
H	1
Total	**153**

Door Panel Connector
Pre-installed on door panel



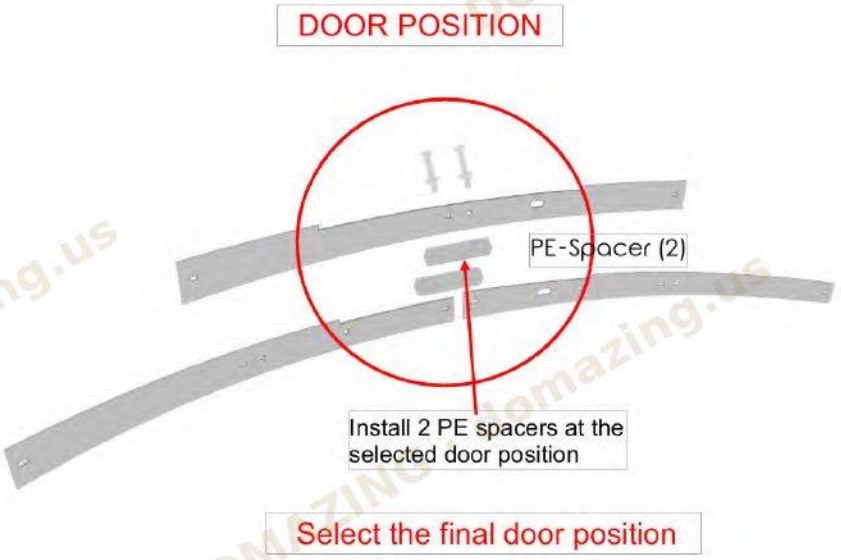
ATTENTION: Panel engravings must be readable from the inside of the dome.

Phase 1 –

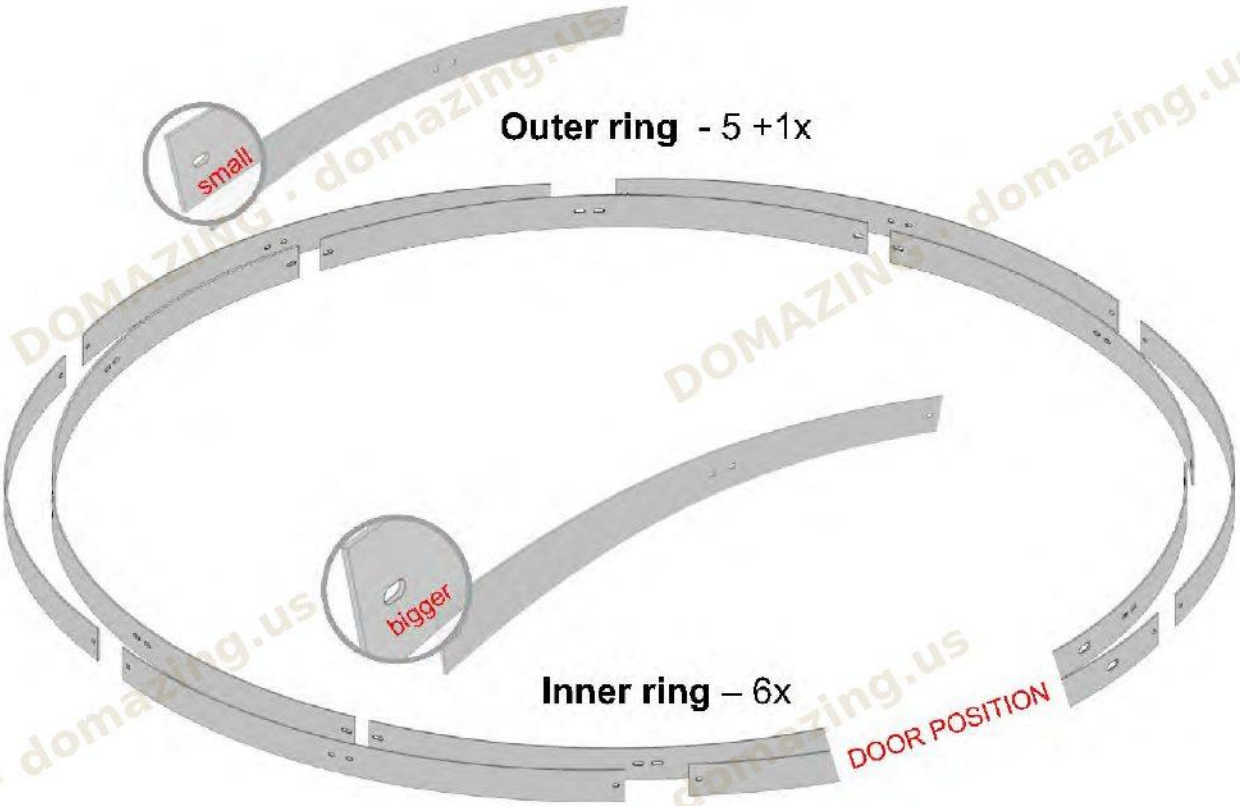
Rings, Door Frame & A-Row

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Door Position

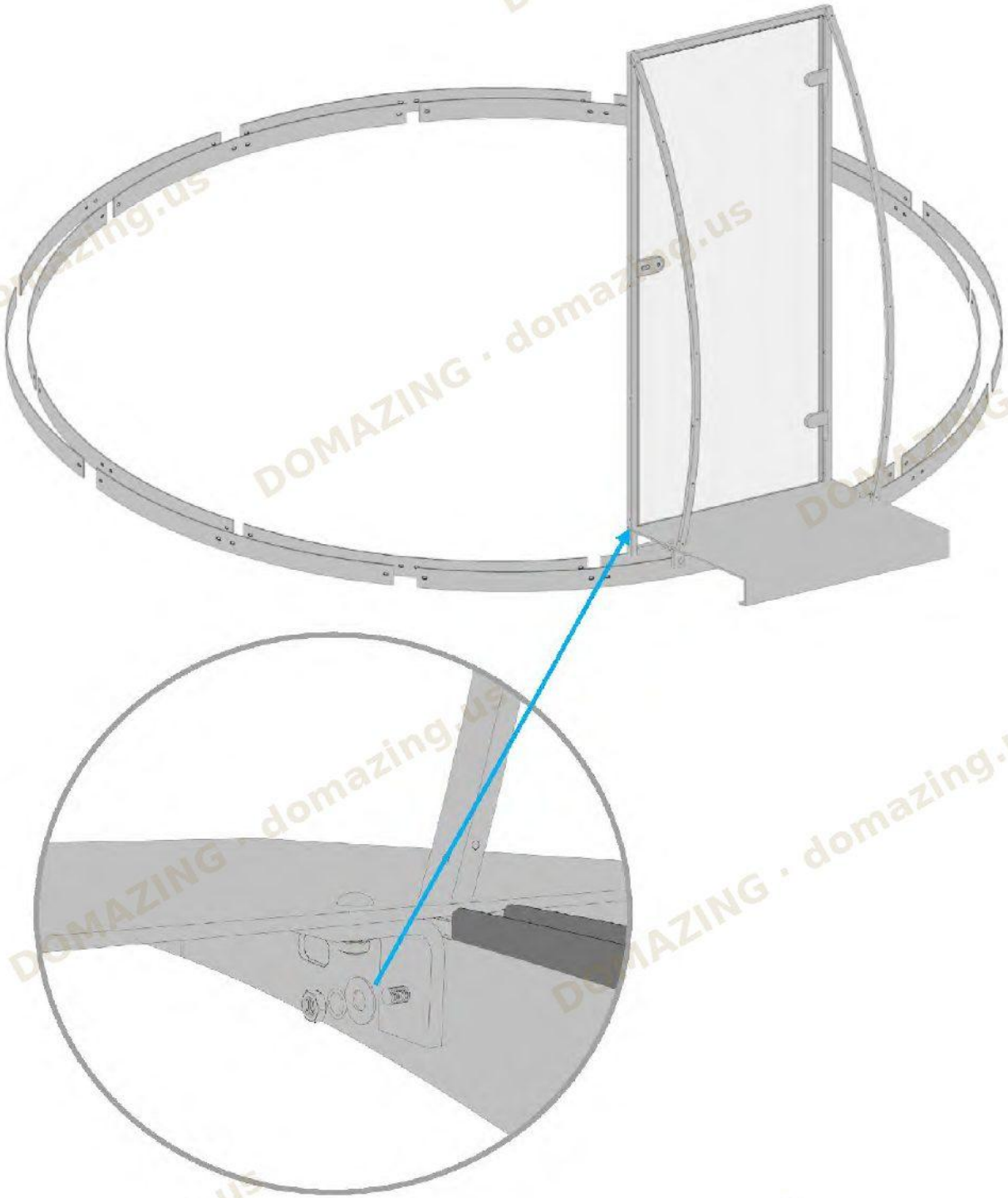


Position the Inner- and Outer Rings – Do Not Fasten Yet

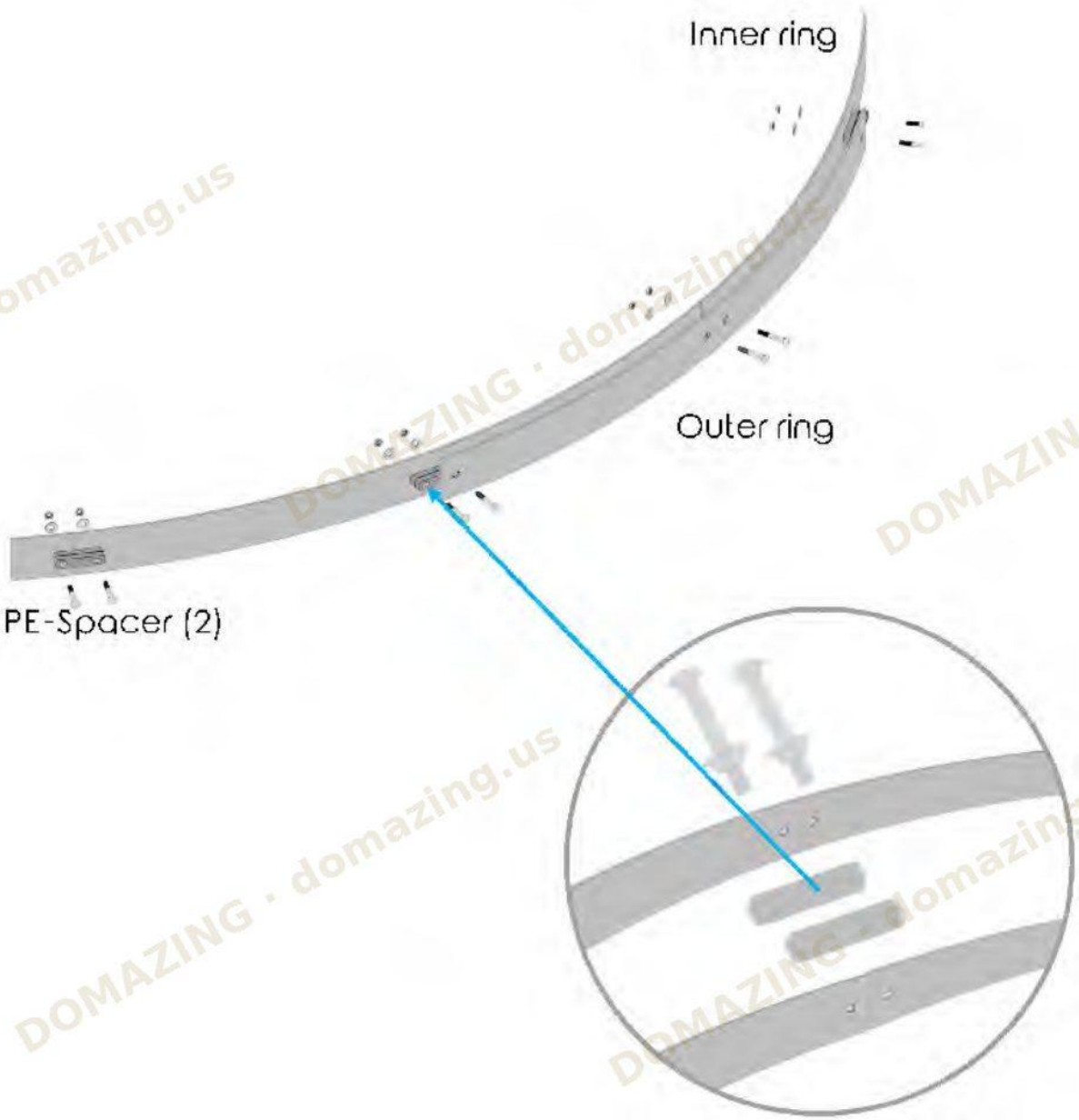


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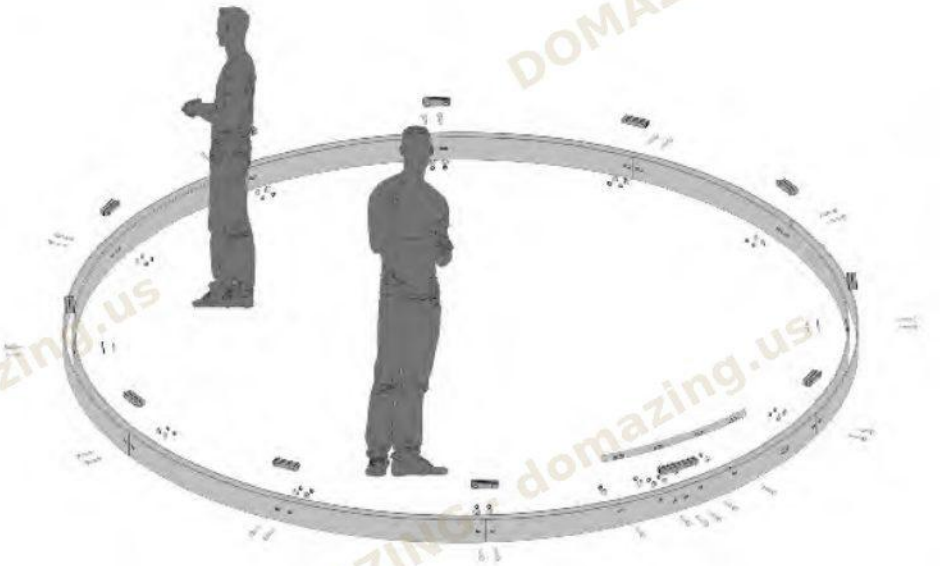
ASSEMBLY INSTRUCTIONS

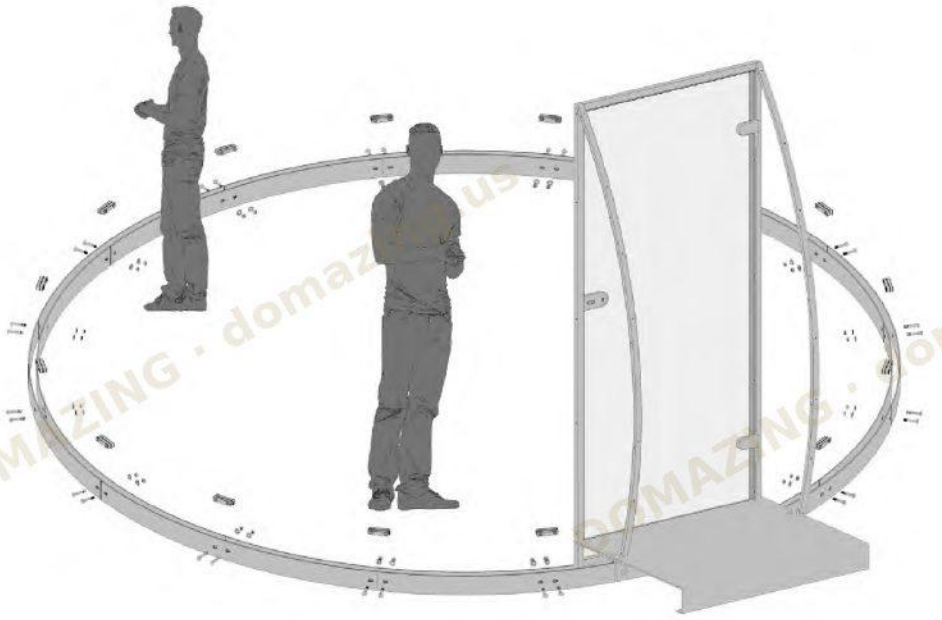


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Install 2 PE-Spacers at Each Connection Point – Do Not Fasten Yet

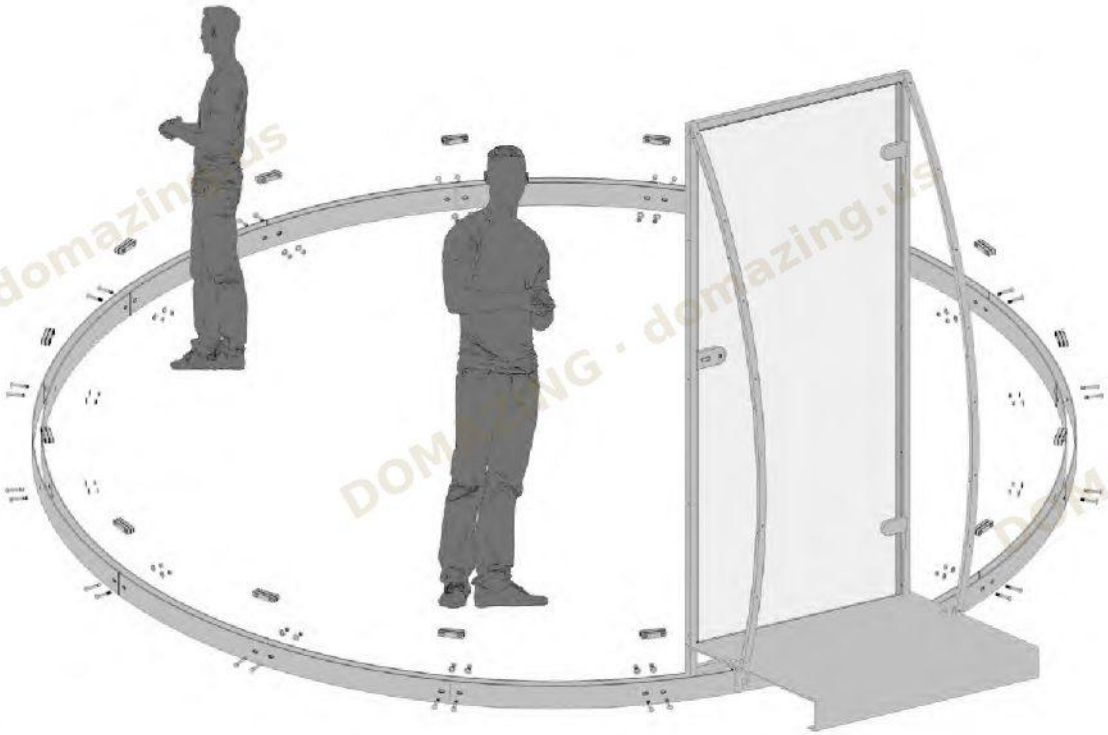




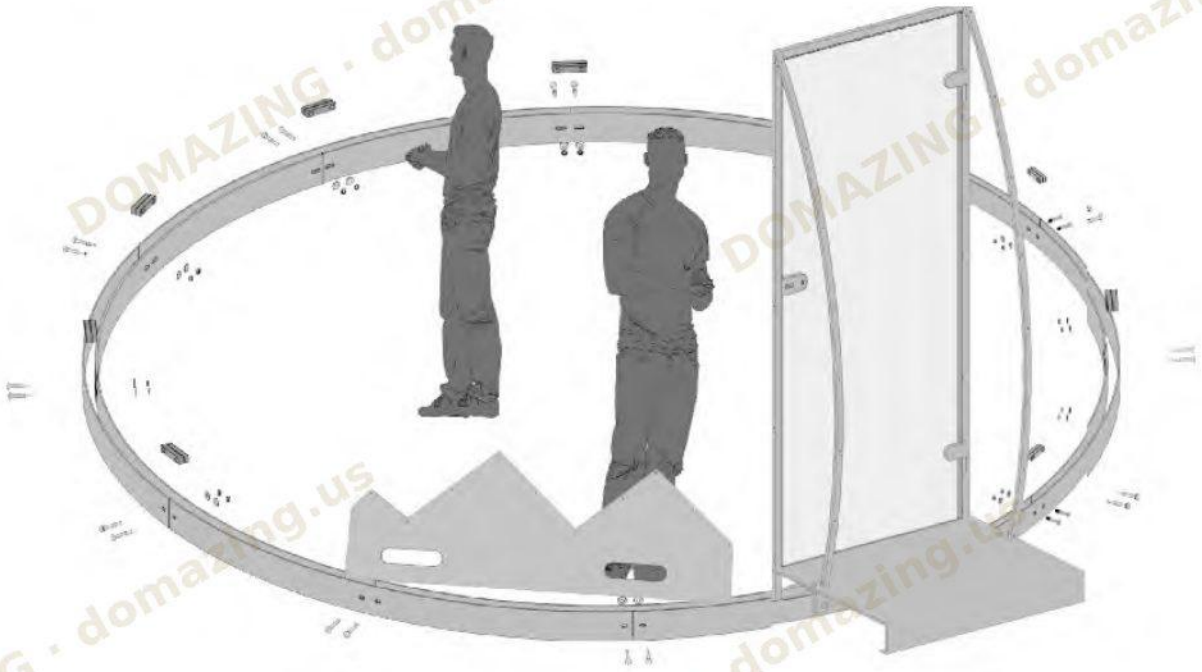
Position Two PE Spacers at Each Connection Point – Do Not Fasten Yet

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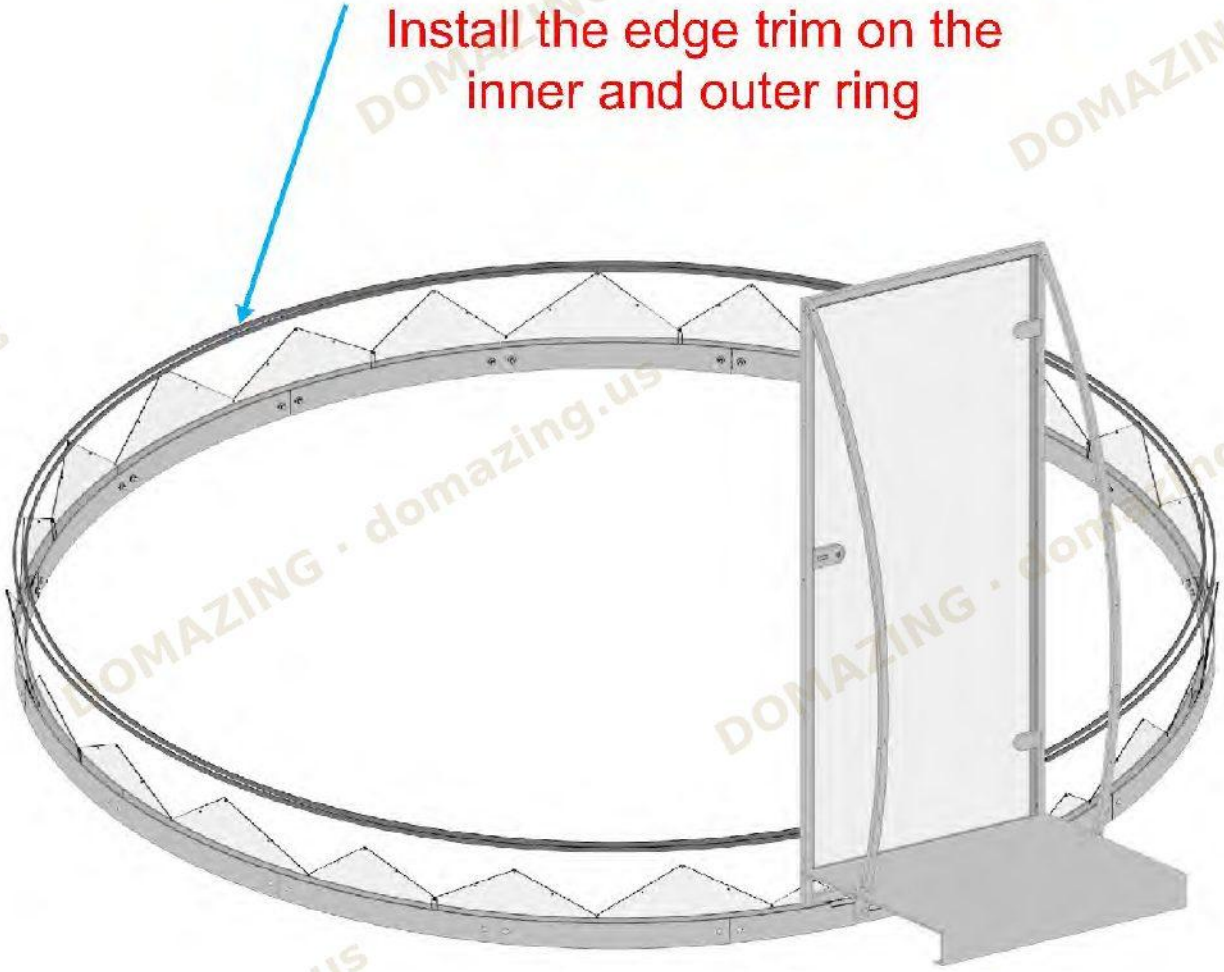
Always Work from Inside the Dome



Installation of A-Row



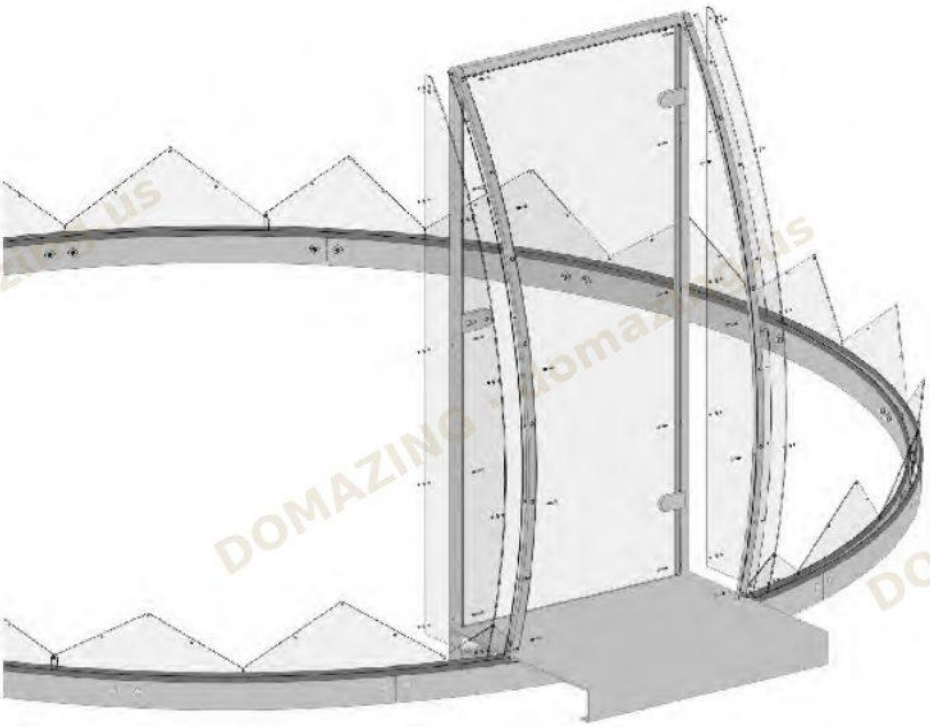


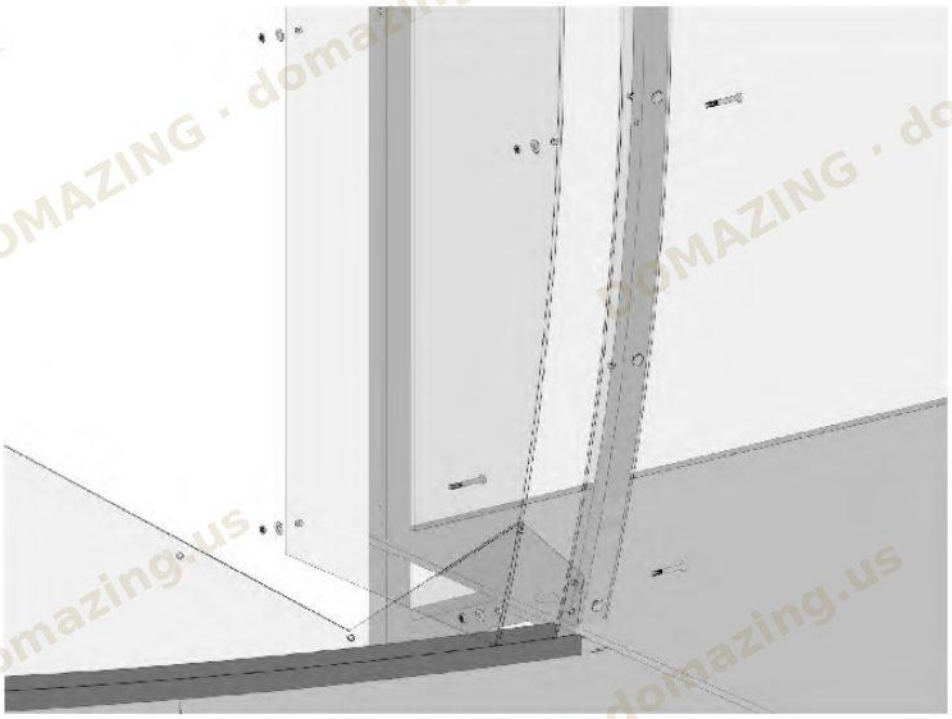

Install the edge trim on the
inner and outer ring

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ASSEMBLY INSTRUCTIONS





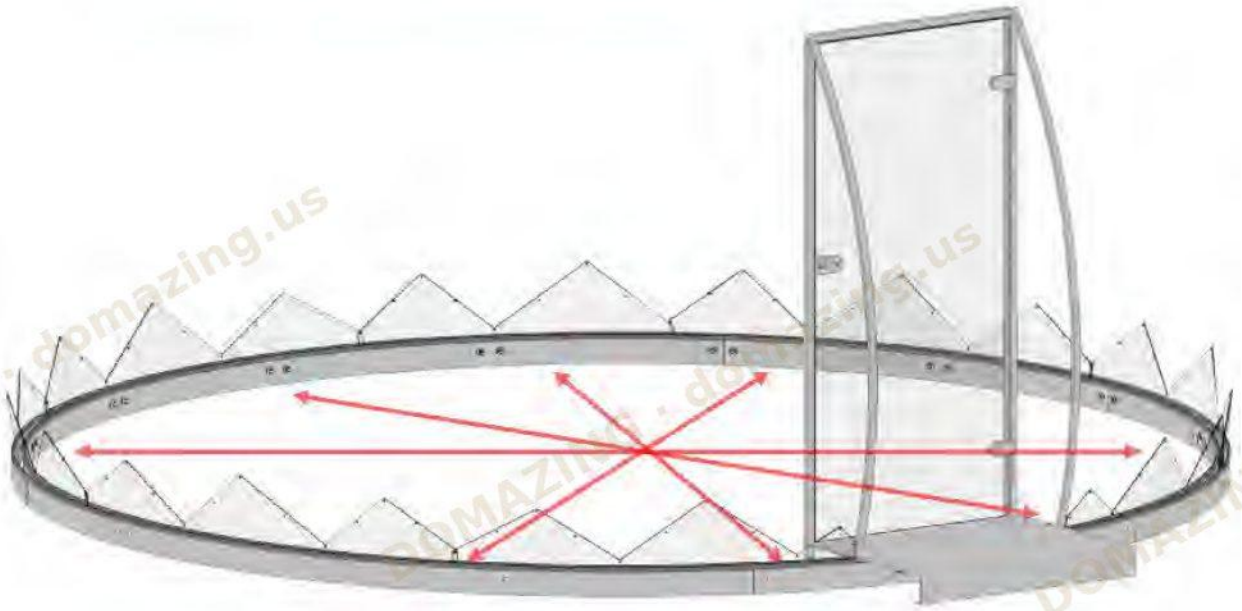
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Asssembly Check - BASE RINGS, DOOR & A-Raw



- Verify that two PE spacers are installed between the inner and outer base rings.
- Verify that the door positions are correct and that the door angles are securely fastened to the inner base ring.
- Verify that all A-Row panels (A1–A14) are correctly installed and fastened together with the inner and outer base rings using the PE spacers.
- Verify that all door side panels are securely fastened.
- Verify that the door connector panels (AA1–AA14 and AA7–A8) are correctly installed and securely fastened.
- Verify that the edge protection is installed on both the inner and outer base rings.
- Verify that the door handles and door locks are installed correctly.

CHECK THE INNER RING DIAMETER: 4.75m (15 ft 7 in)

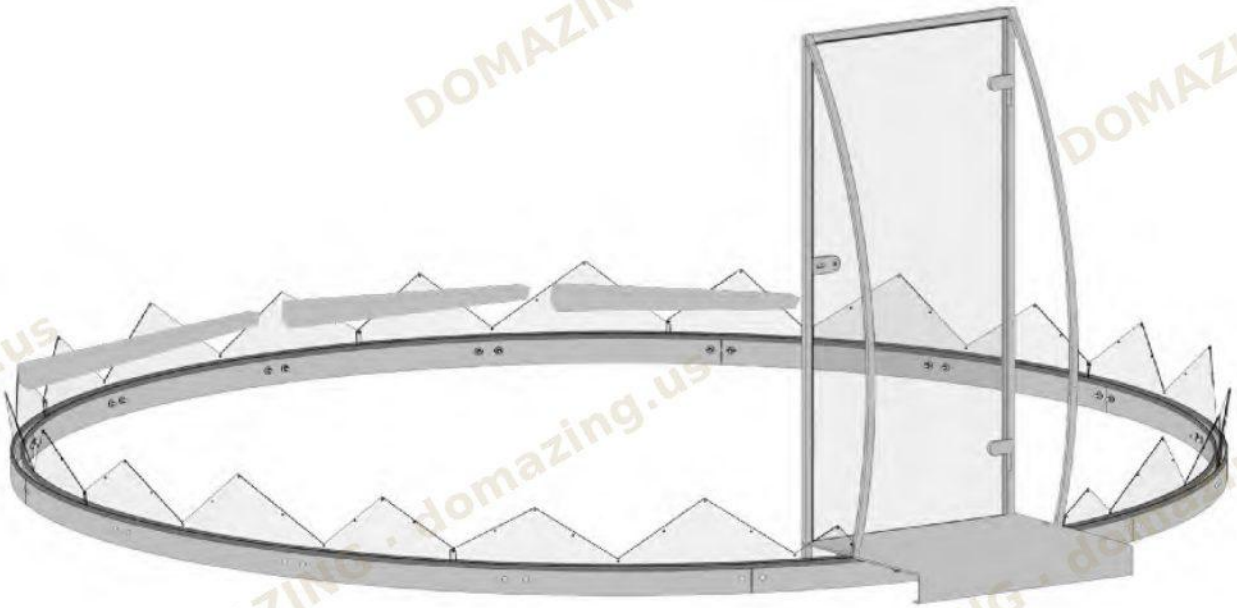


Measure the inner ring diameter at several points. Adjust the ring if necessary until a diameter of 4.75 m (15 ft 7 in) is achieved.

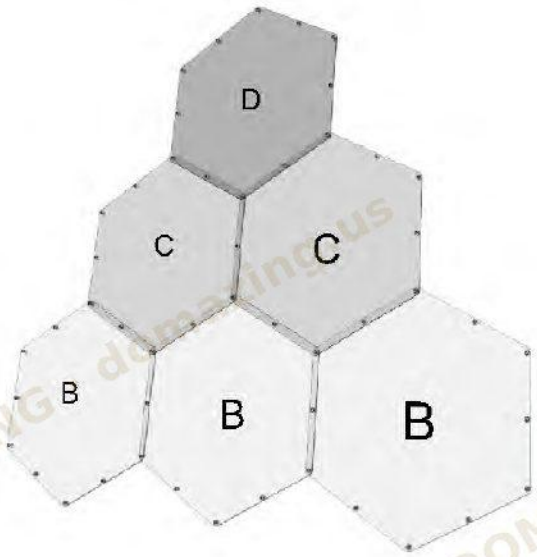
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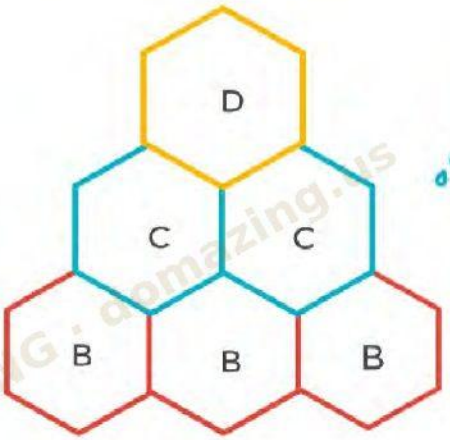
Install the Air Vent Filter

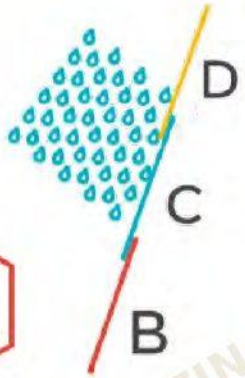
- Insert the filter between the Inner Ring and the A-Row.
- Press the filter firmly into position.
- Ensure the filter is seated evenly along its entire length.



Panel Assembling from the Inside of the Dome







POLYCARBONATE PANEL INSTALLATION (SHINGLE PRINCIPLE)

Panel installation always begins at the bottom of the dome with **Row A**.

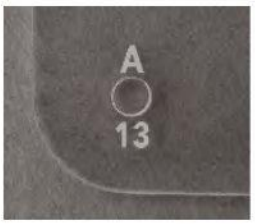
Install all subsequent rows using the **shingle principle**. Each new row overlaps the row below from the outside.

For example, **Row B** overlaps **Row A**, **Row C** overlaps **Row B**, and **Row D** overlaps **Row C**.

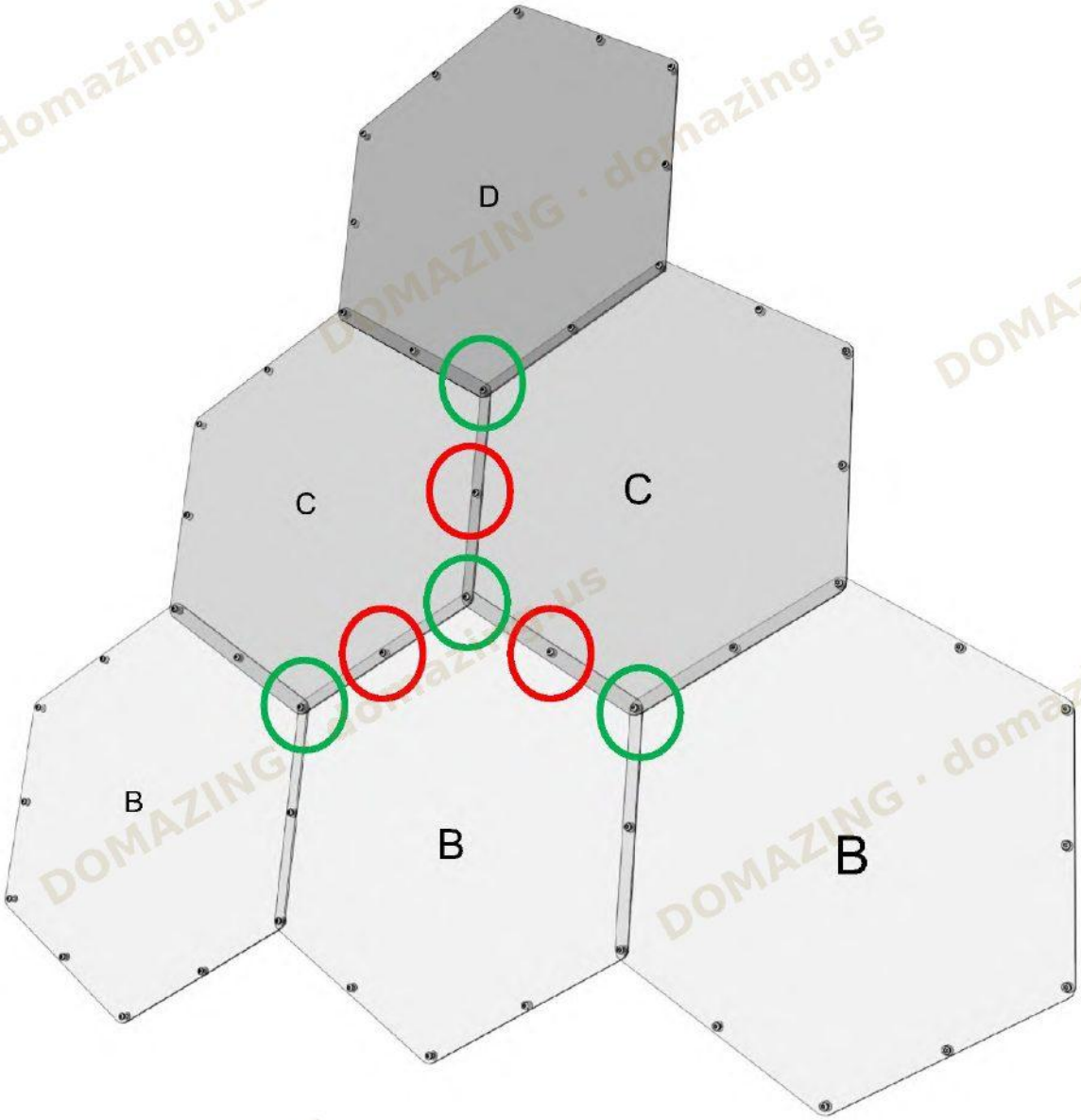
This overlapping method ensures proper water drainage and makes the dome weatherproof.

IMPORTANT

- Use **M5×16 long panel screws** where **three panels overlap**.
- Use **M5×12 short panel screws** where **only two panels overlap**.
- **Laser-marked panel numbers must remain visible from inside the dome.**
- The panel numbers are located at the **bottom center** or **bottom right** of each panel.
- Maintain the same overlap direction throughout the entire installation.
- Verify that each panel is correctly seated before tightening all screws.



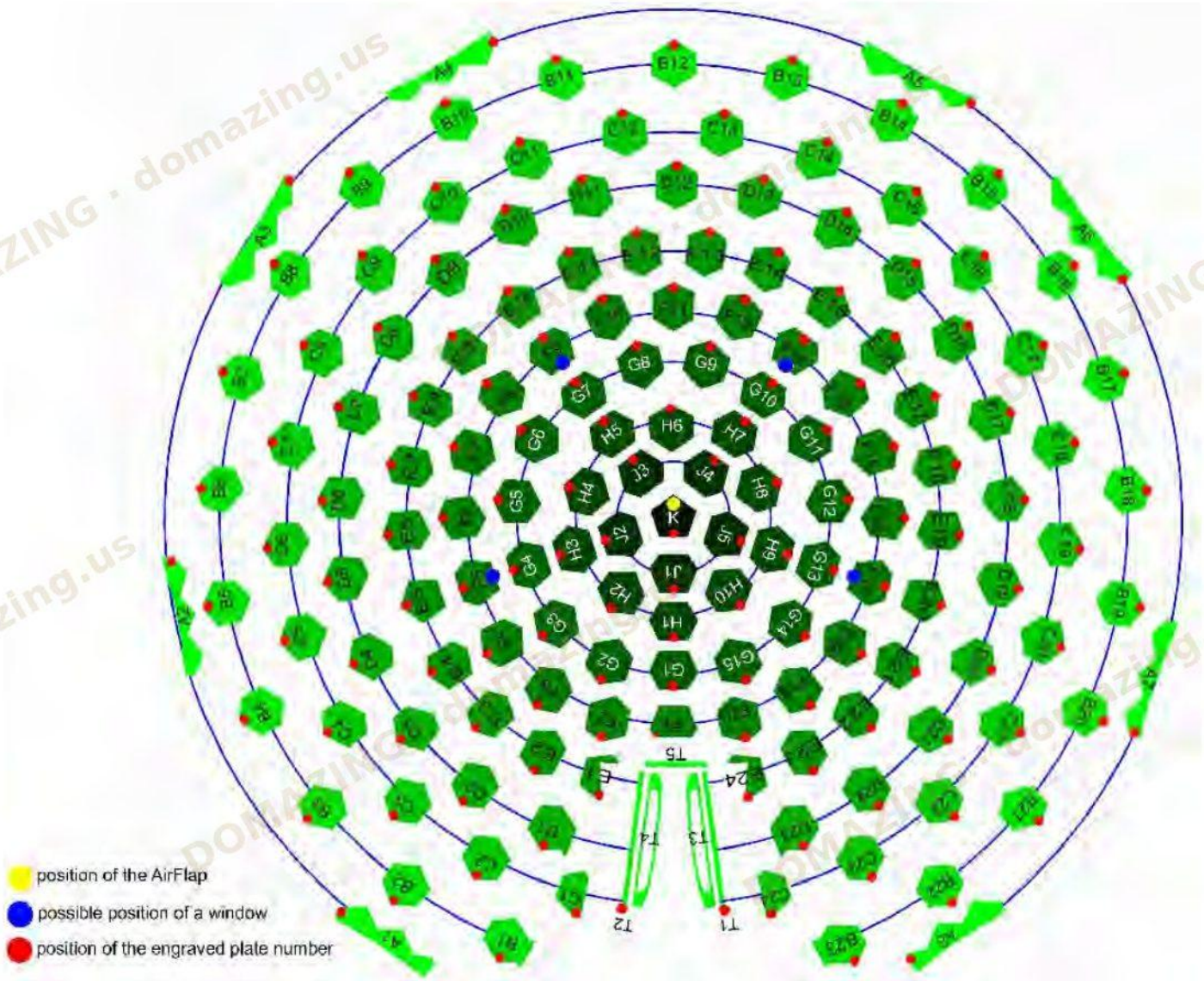


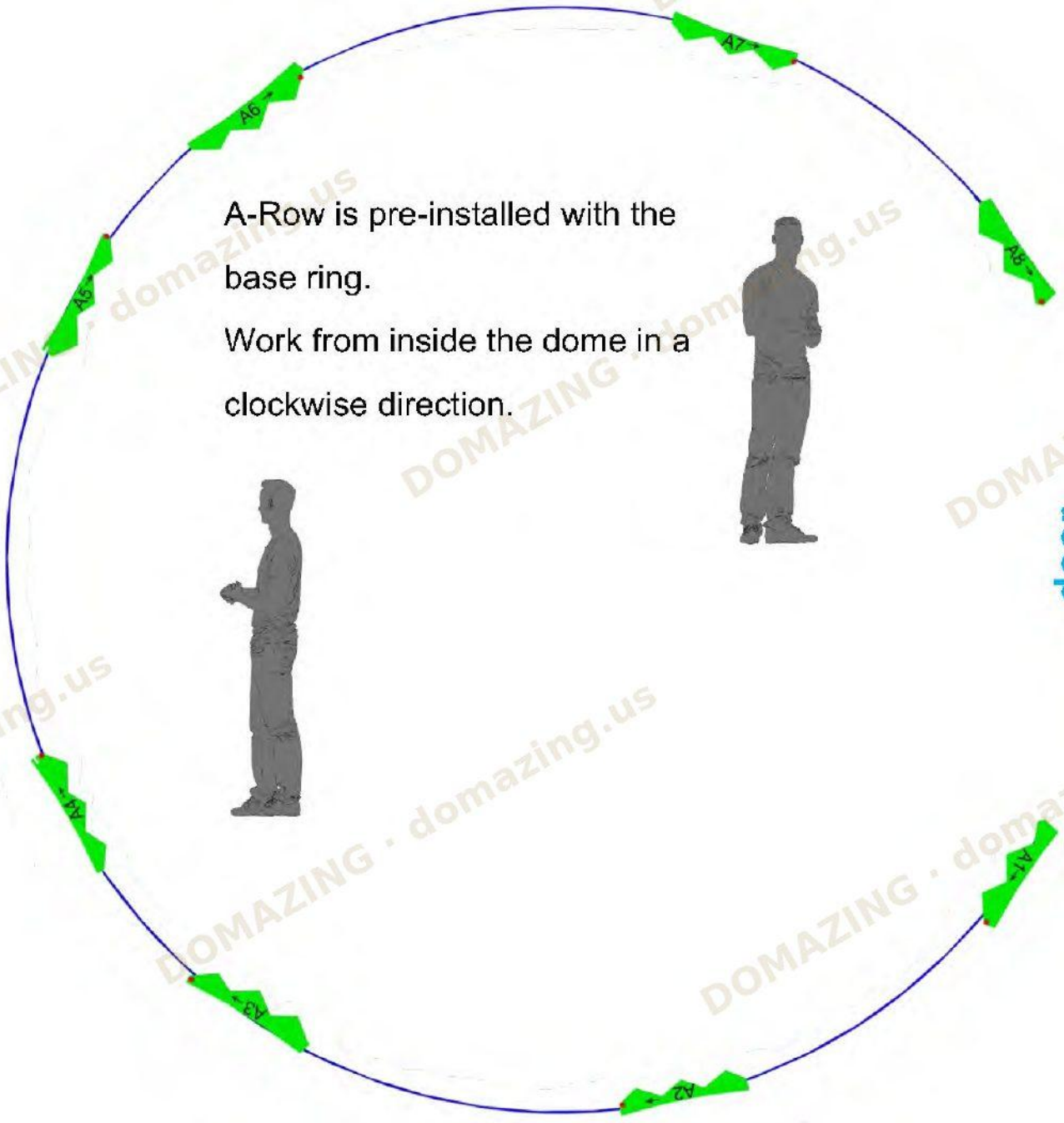


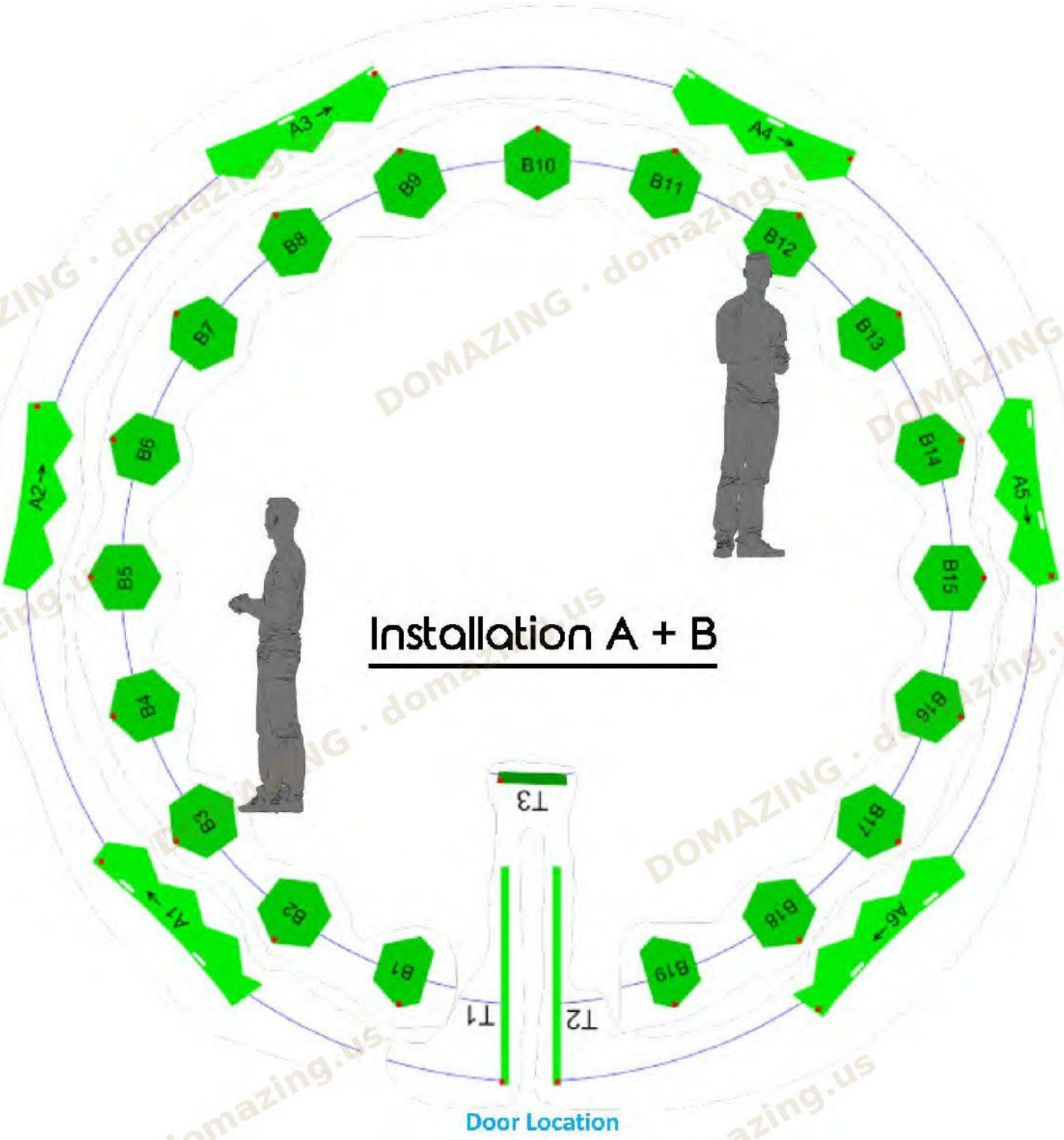
M5×16 Long Panel Screw, used where three panels overlap

M5×12 Short Panel Screw, used where two panels overlap

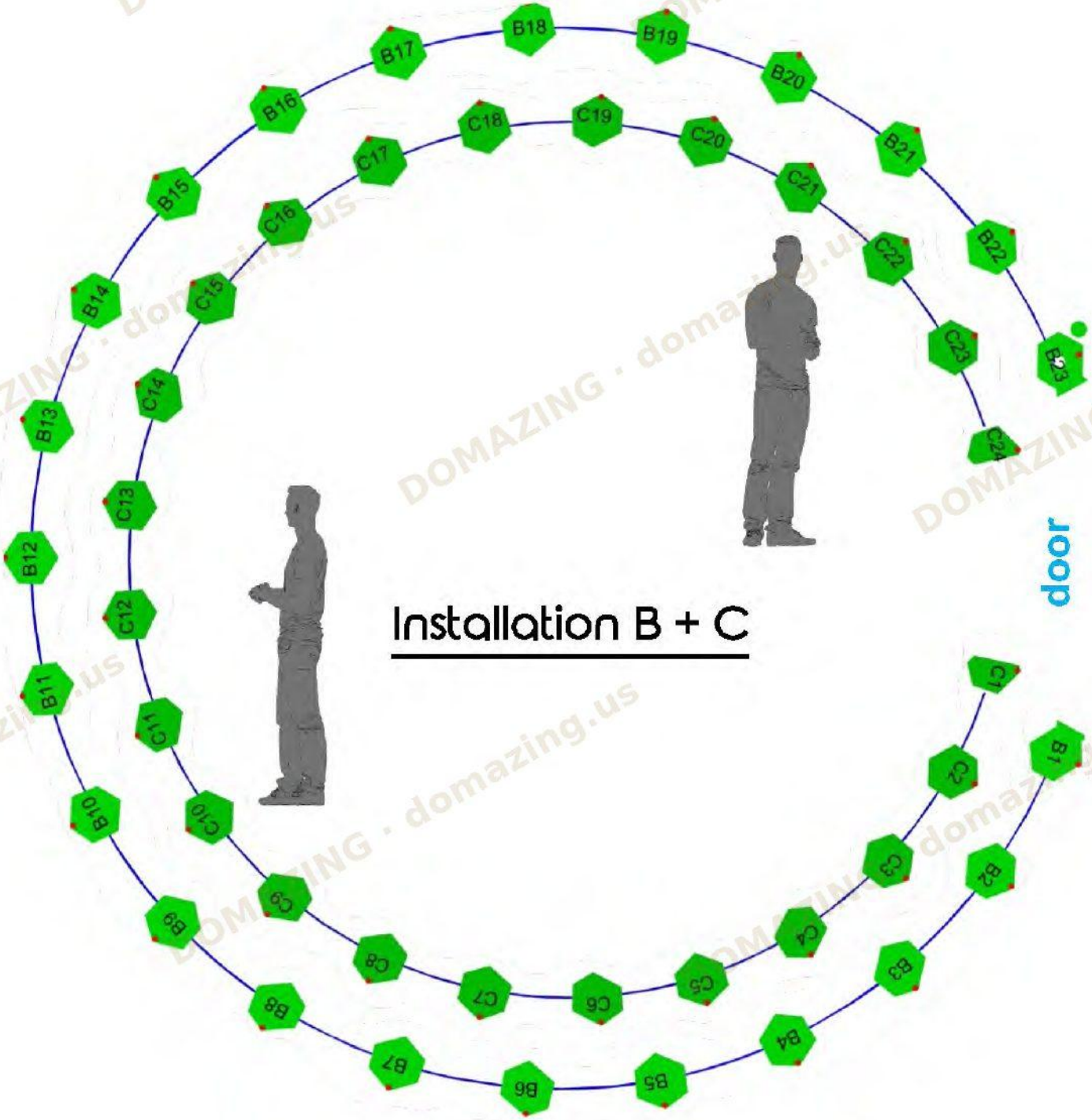
Reference Layout for Panel Positioning and Door Location

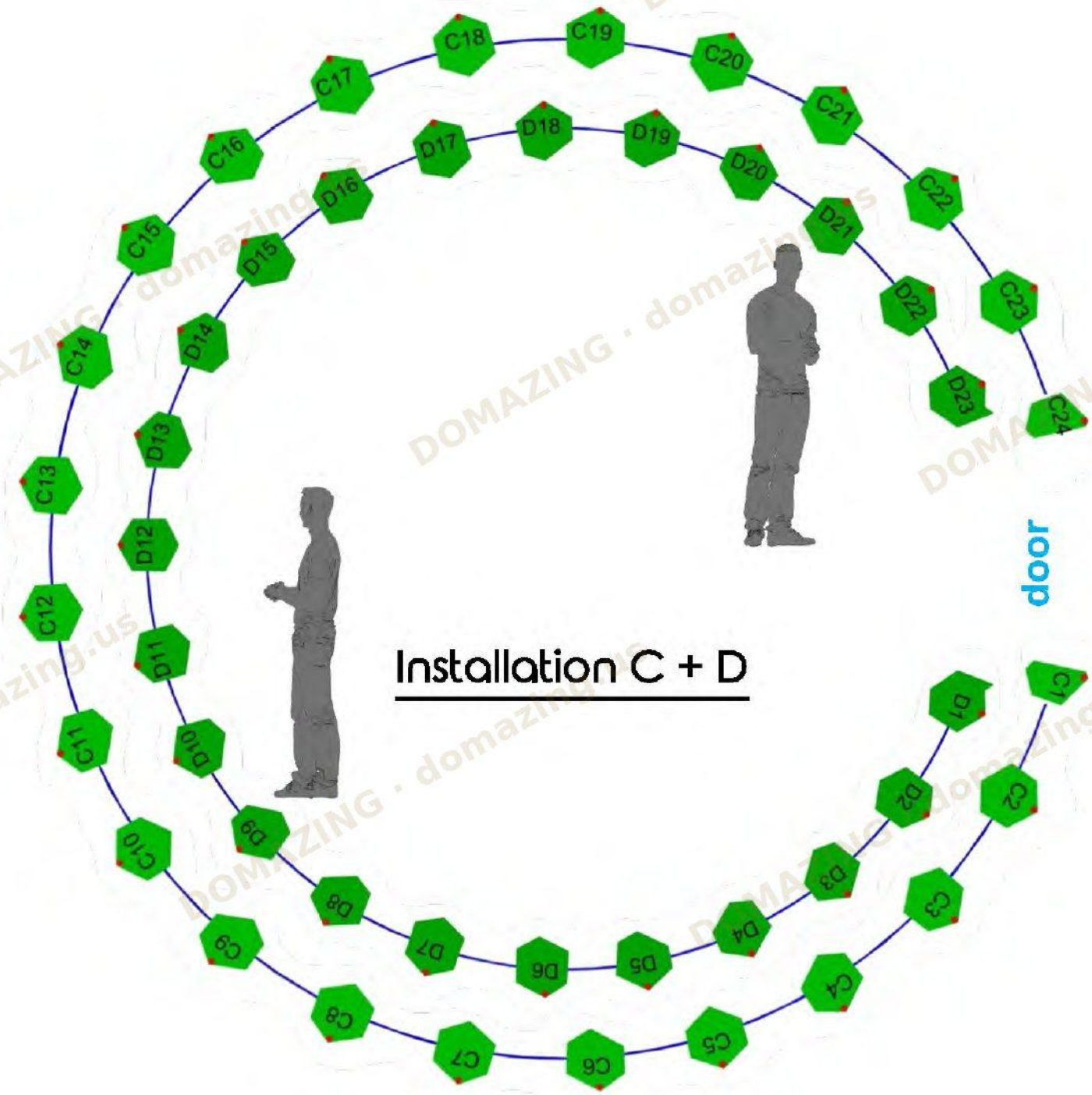



A7
A6
A8
A5
A-Row is pre-installed with the
base ring.
Work from inside the dome in a
clockwise direction.
door
A4
A1
A3
A2

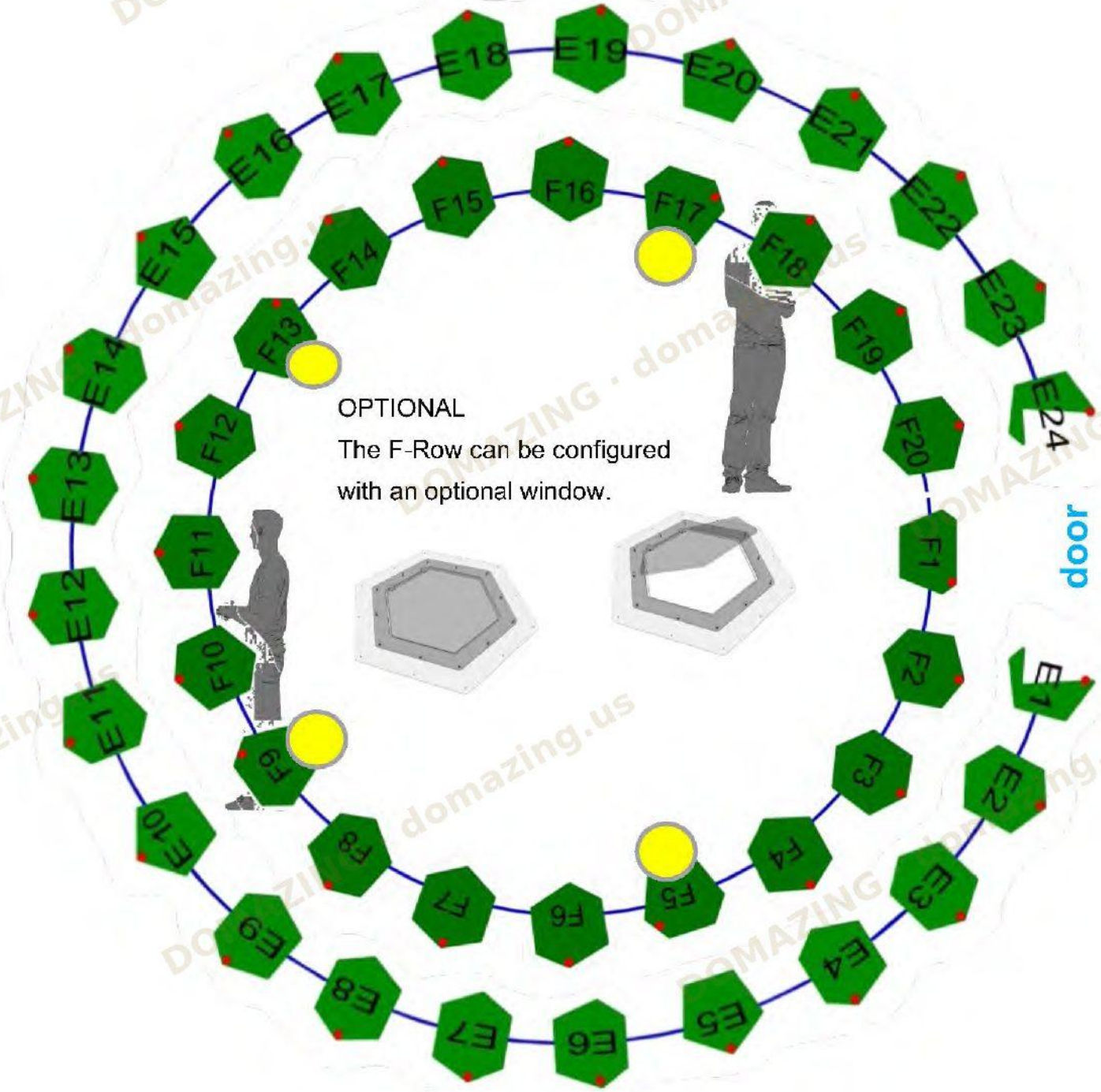


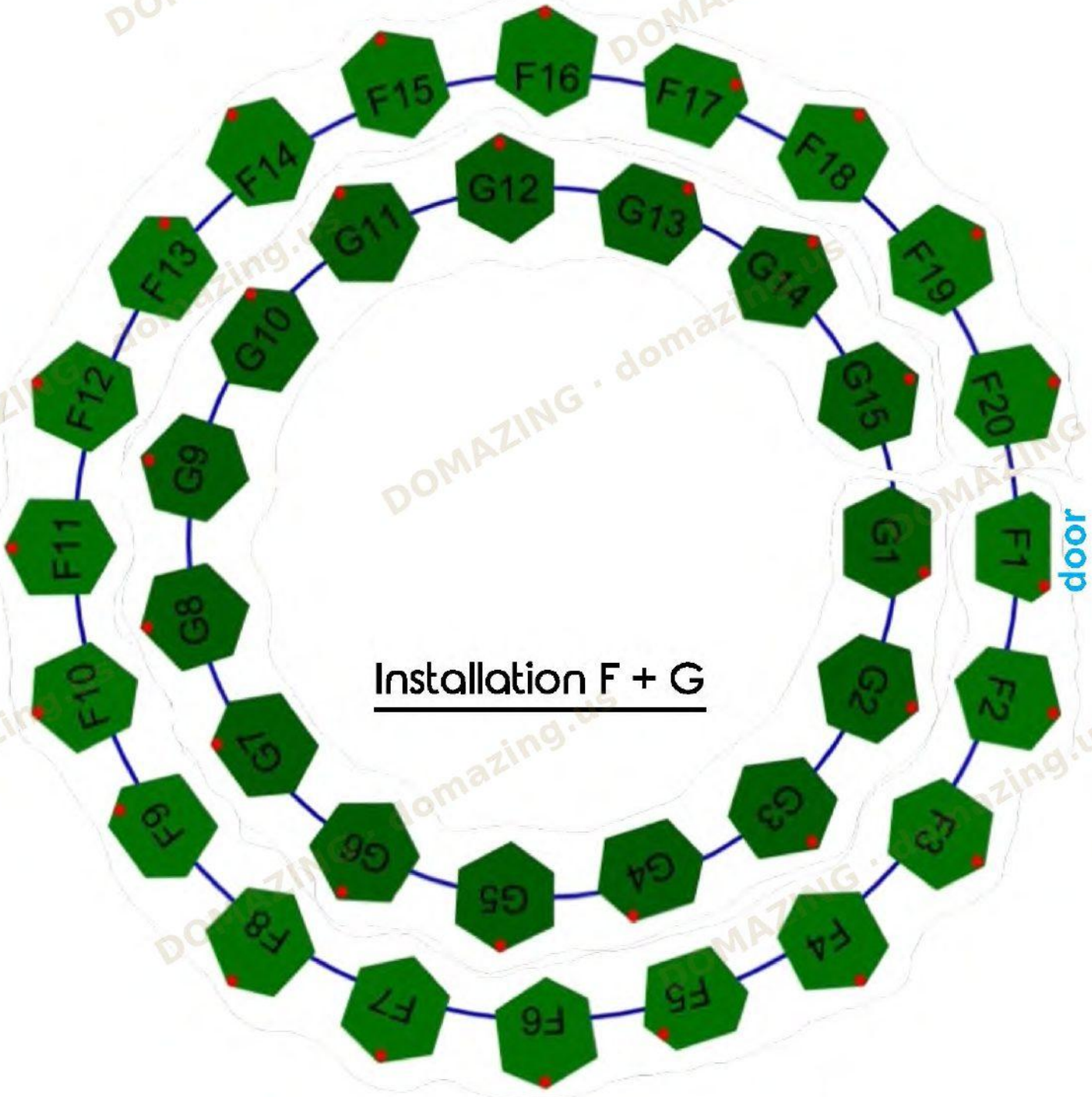
Installation A + B

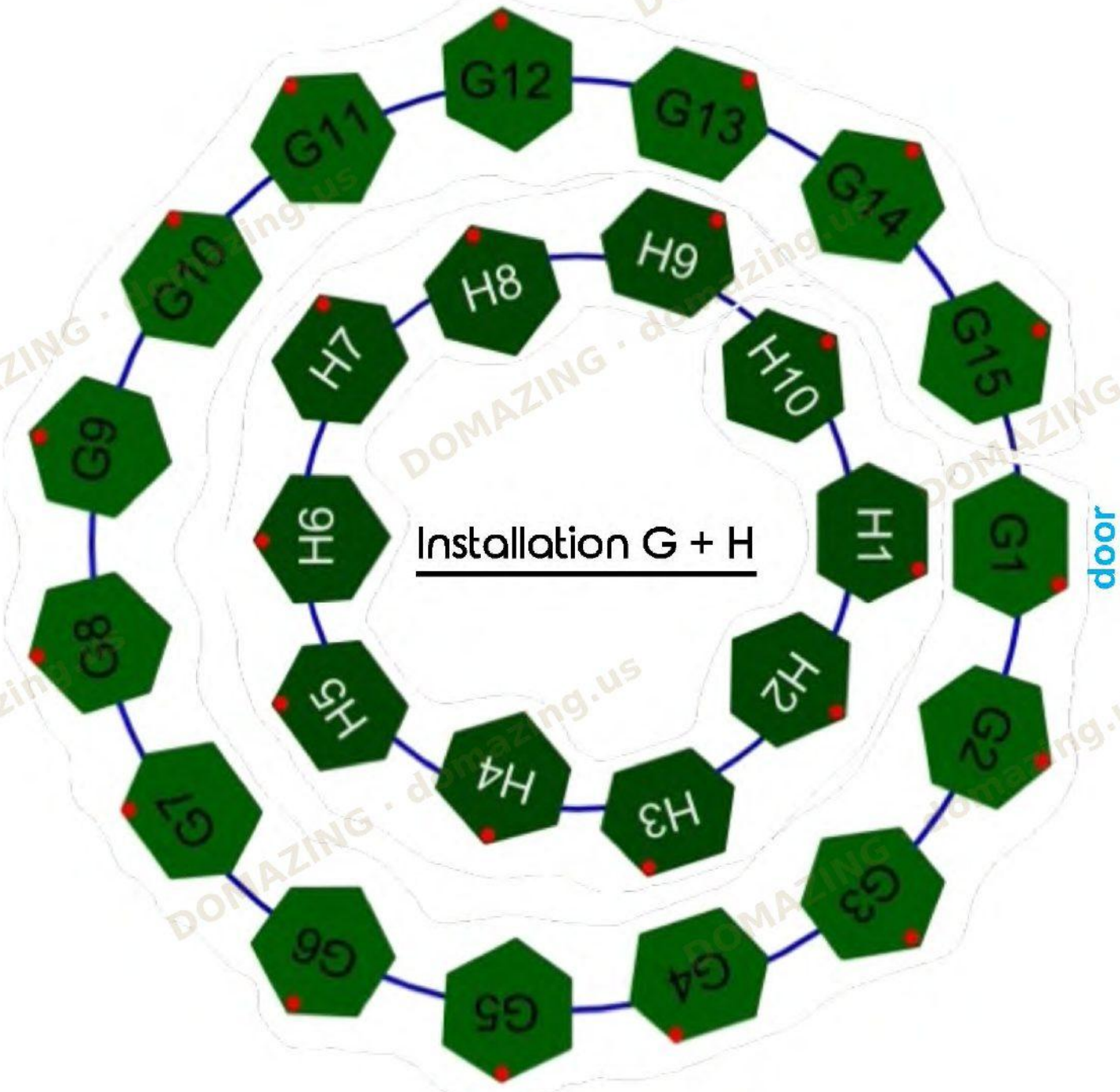

B18
B19
B17
B20
B16
B21
C18
C19
C17
C20
B15
C21
C16
B22
C22
B14
C15
C23
B23
C14
C24
B13
C13
B12
C12
B11
C11
B10
C10
C9
B9
C8
B8
C7
B7
C6
B6
C5
B5
C4
B4
C3
B3
C2
B2
C1
B1
door
Installation B + C

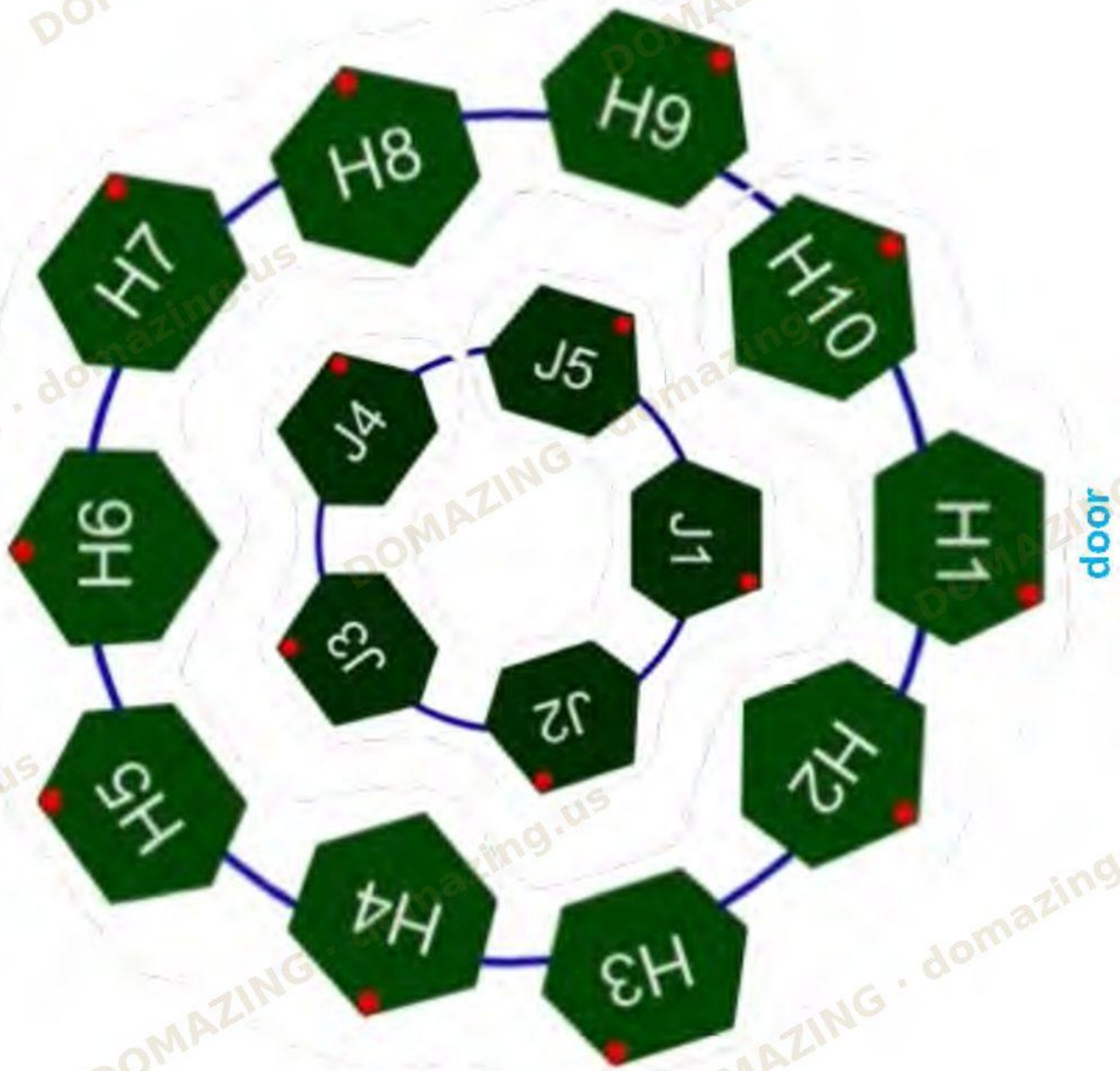

C18
C19
C20
C17
C21
C16
D17
D18
D19
D20
C22
D16
C15
D21
D15
C23
D22
C14
D14
D23
C24
D13
C13
D12
door
C12
D11
C1
D1
C11
D10
C2
D2
D9
C10
D3
C3
D8
D4
C9
D7
D5
C4
D6
C8
C5
C7
C6
Installation C + D


D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
E1
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E9
E10
E11
E12
E13
E14
E15
E16
E17
E18
E19
E20
E21
E22
E23
E24
door
Installation D + E


E18
E19
E20
E17
E21
E16
E22
F15
F16
F17
E15
F14
F18
E23
F13
F19
E14
E24
OPTIONAL
The F-Row can be configured
with an optional window.
F12
F20
E13
F11
F1
door
E12
F10
F2
E1
E11
F9
F3
E2
E10
F8
F4
E3
F7
F5
E9
F6
E4
E8
E5
E7
E6


F15
F16
F17
F14
F18
G12
G13
G11
F13
G14
F19
G10
G15
F12
F20
G9
G1
F1
door
F11
G8
Installation F + G
F10
G2
F2
G7
G3
F9
F3
G6
G4
G5
F8
F4
F7
F5
F6


G12
G13
G14
G15
G1
G2
G3
G4
G5
G6
G7
G8
G9
G10
G11
H1
H2
H3
H4
H5
H6
H7
H8
H9
H10
Installation G + H
door



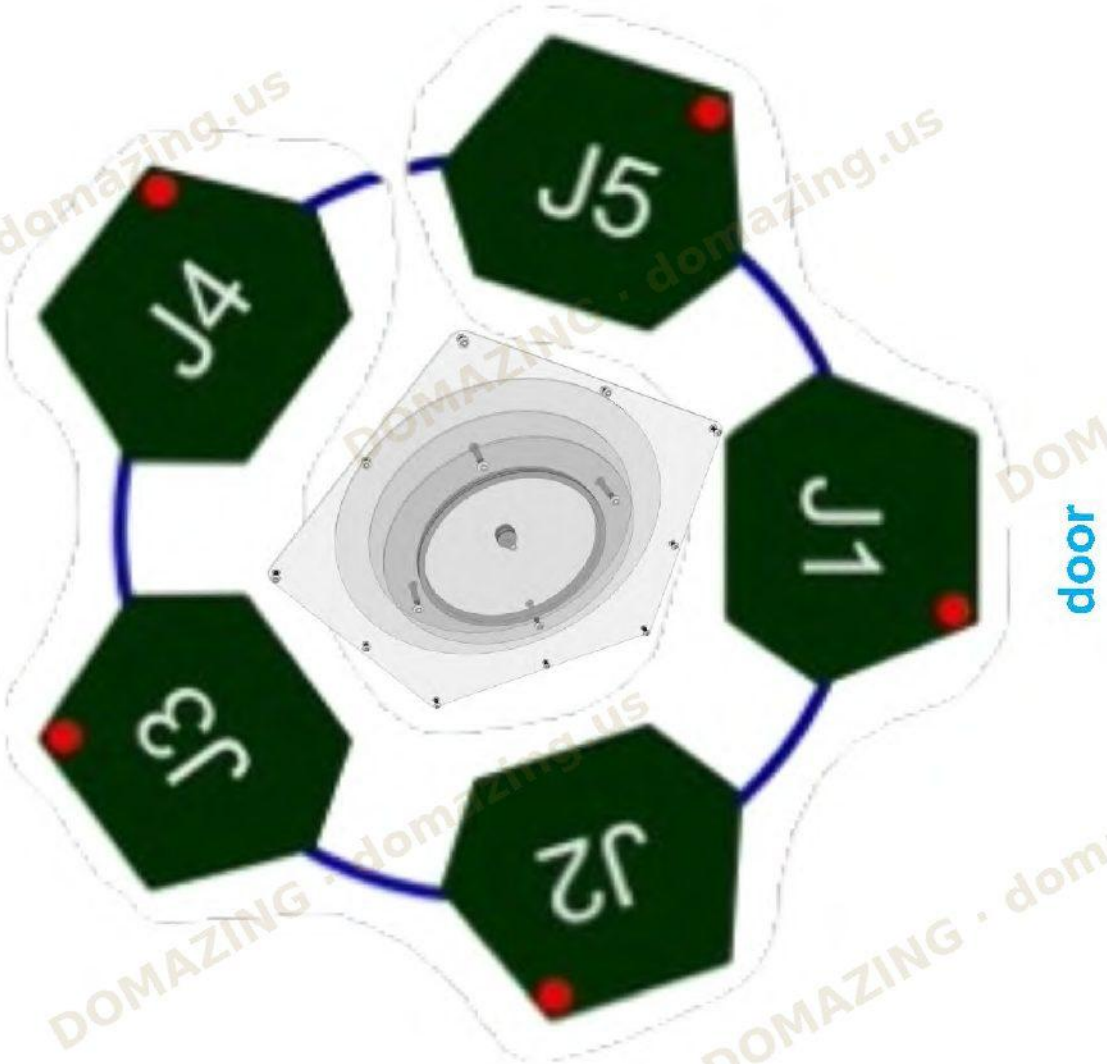
Installation H + J

Installation J + K



- Install Panel K last. Use the vacuum suction cup to position the panel from inside the dome.
- The screws for panel K are pre-installed and ready for final assembly.

Installation J + Optional Air Flap



- Optional Air Flap – Enhances natural ventilation and air circulation.
- Air Flap panel includes pre-installed screw

Warranty Information

DOMAZING warrants the GEO 5.0 dome components against defects in materials and workmanship under normal use and installation conditions.

This warranty does not cover:

- Improper installation or assembly
- Modifications or alterations to the product
- Damage caused by misuse, neglect, or improper maintenance
- Damage caused by extreme weather conditions beyond the product's design specifications
- Normal wear and tear

In the event of a warranty claim, please contact DOMAZING and provide:

- Order number
- Description of the issue
- Photographs of the affected component(s)

Warranty coverage and warranty period are subject to the terms specified in the original sales agreement and purchase documentation.

For warranty assistance, please contact DOMAZING directly.

Contact Information

For technical support, warranty requests, spare parts, or general inquiries, please contact:

DOMAZING

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Clearwater, Florida, USA

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