## ARTFORMS

PANEL SYSTEM

### INSTALLATION GUIDE





#### TABLE OF CONTENT



Click on the title of your choice to see the detail page

**SYSTEM OVERVIEW** 

#### **INSTALLATION**

#### PARTS LIST - CONCRETE PANELS

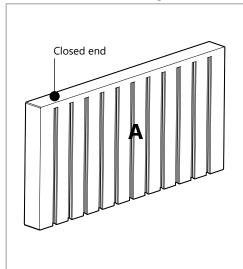


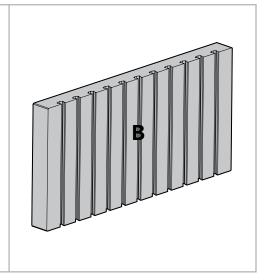
18 x 36 x 3" (150 lb)

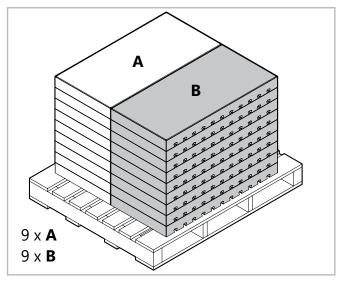
457 x 914 x 76 mm (67 kg)

**18 x 36 x 3" (148 lb)** 457 x 914 x 76 mm (66 kg)

\*40 x 48" Pallet (18 units/pallet)



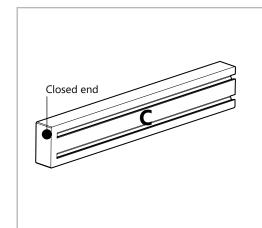


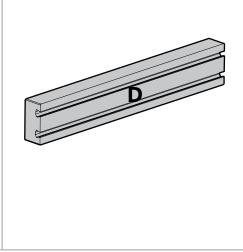


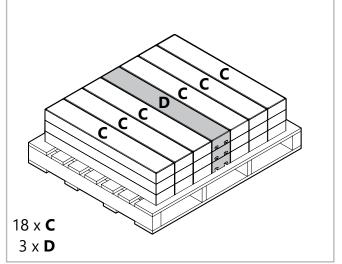
**6 x 36 x 3" (49 lb)** 152 x 914 x 76 mm (22 kg)

**6 x 36 x 3" (49 lb)** 152 x 914 x 76 mm (22 kg)

\*40 x 48" Pallet (21 units/pallet)







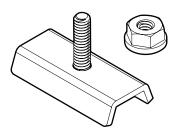
\*IMPORTANT: 18x36" panels are sold in pair/layer or in full pallet only. 6x36" panels are sold per unit or in layer or in full pallet.

#### PARTS LIST - HARDWARE (STAINLESS STEEL)



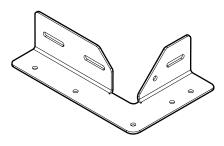
#### Anchor Slide – 1/4" x 20 stud & nut

2 x 1¼ x 1" (51 x 33 x 25 mm) 100 units/box



#### \*Inner Corner

9 x 6 x 2½" (232 x 155 x 63 mm) 24 units/box

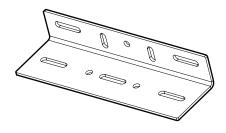


#### \*Stretcher Bar

36¾ x 1¼ x 1" (933 x 33 x 25 mm) 10 units/box

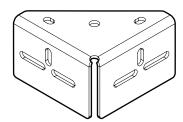


81/4 x 21/2 x 11/2" (209 x 63 x 38 mm) 40 units/box



#### \*Outer Corner

4 x 4 x 2½" (101 x 101 x 63 mm) 48 units/box

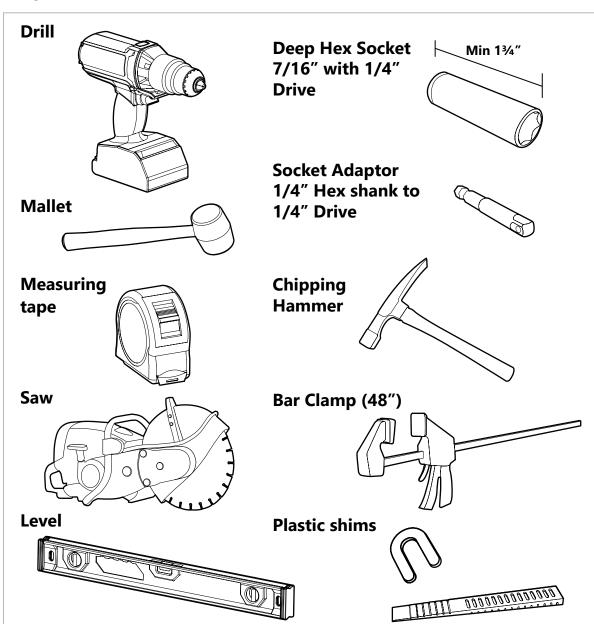




#### TOOLS & SAFETY EQUIPMENT



#### **REQUIRED TOOLS**



#### SAFETY EQUIPMENT



#### **APPLICATIONS**

# BELGARD

#### **Planter Box/Bench**





**Privacy Wall** 







**Raised Garden** 



\* Outdoor Kitchen





**Counter** 

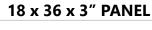




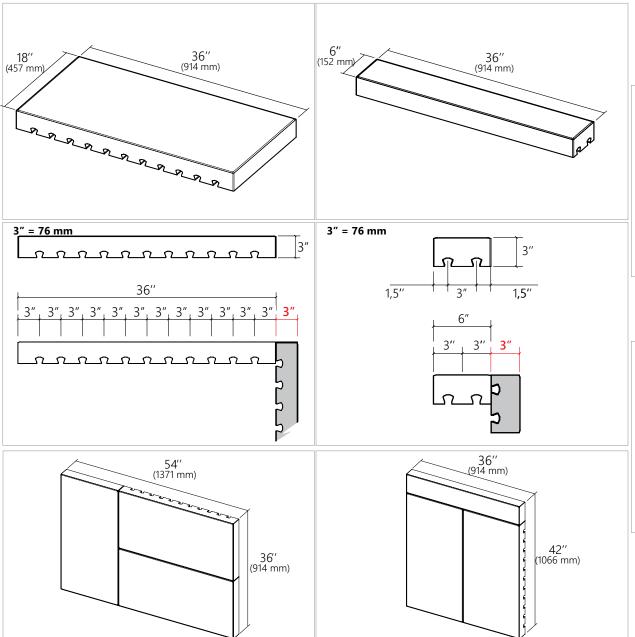
<sup>\*</sup> IMPORTANT: For all complementary appliances/accessories to the **Artforms panel system**, follow manufacturer's instructions/guidelines. Consult qualified services person/ experts to validate installations, repairs, safety recommendations and any other related topics.

#### **MODULARITY** – THE SYSTEM

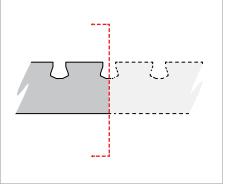




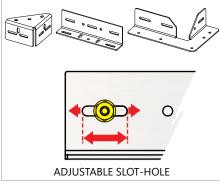
6 x 36 x 3" PANEL



#### RECOMMENDED: CUT IN THE MIDDLE OF DOVETAIL



#### **ADJUSTMENT**



NOTE: It is recommended to design structures with overall dimensions using increments of 3" (76mm).

#### **MODULARITY** – REFERENCES



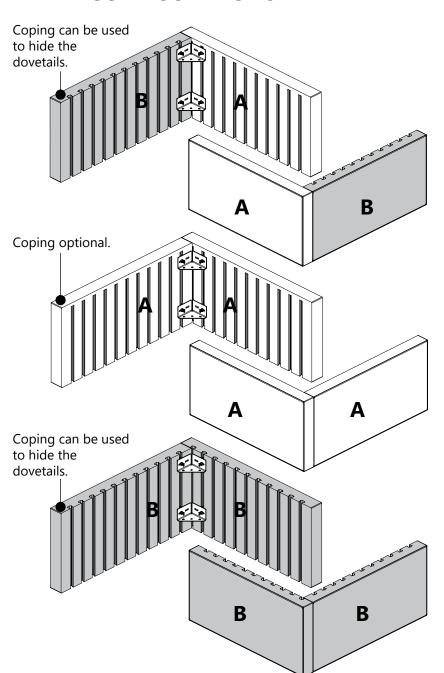
#### KITCHEN TABLE BAR TABLE

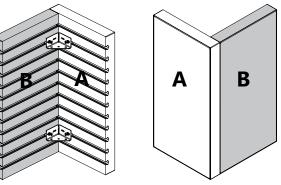


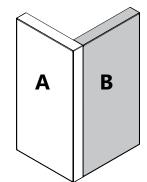
# SEATING 18" (457 mm) FRONT VIEW SIDE VIEW

#### **PANEL CONFIGURATIONS**

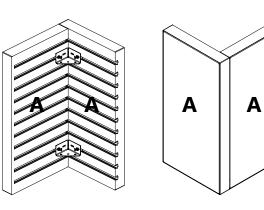




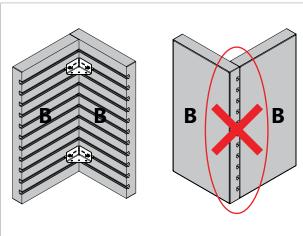




\* IDEAL: This configuration uses equal number of panel A and panel B.



\* NOT OPTIMAL: This configuration uses panel A only.



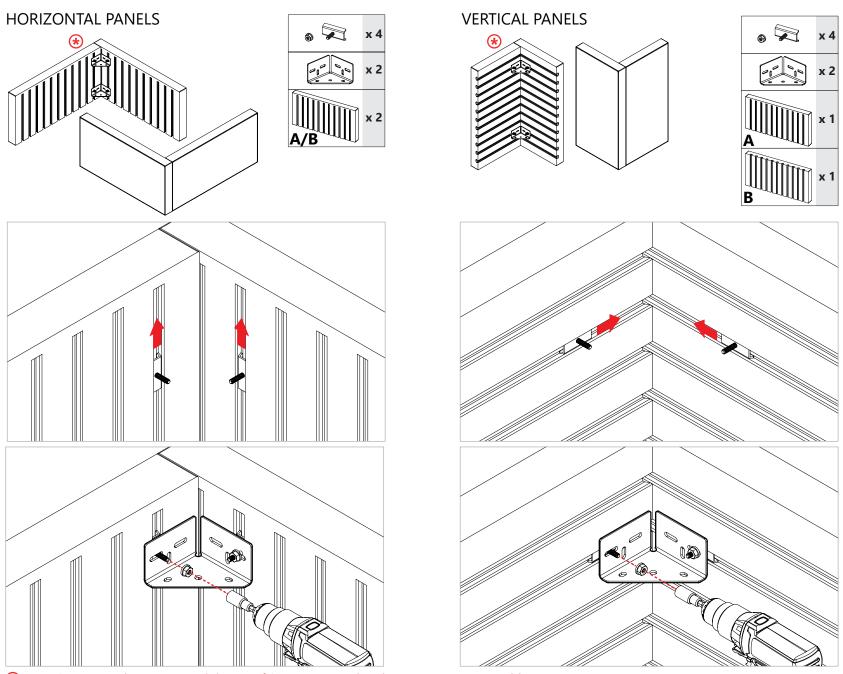
\* NOT **RECOMMENDED:** 

This configuration uses panel B only and the dovetails are exposed. Use ideal configuration as shown above.

\*IMPORTANT: When planning configurations, consider the amount of panel A and panel B on a pallet. 18x36" panels are sold in pair/layer or in full pallet only. 6x36" panels are sold in layer or in full pallet only.

#### **OUTER CORNER INSTALLATION**

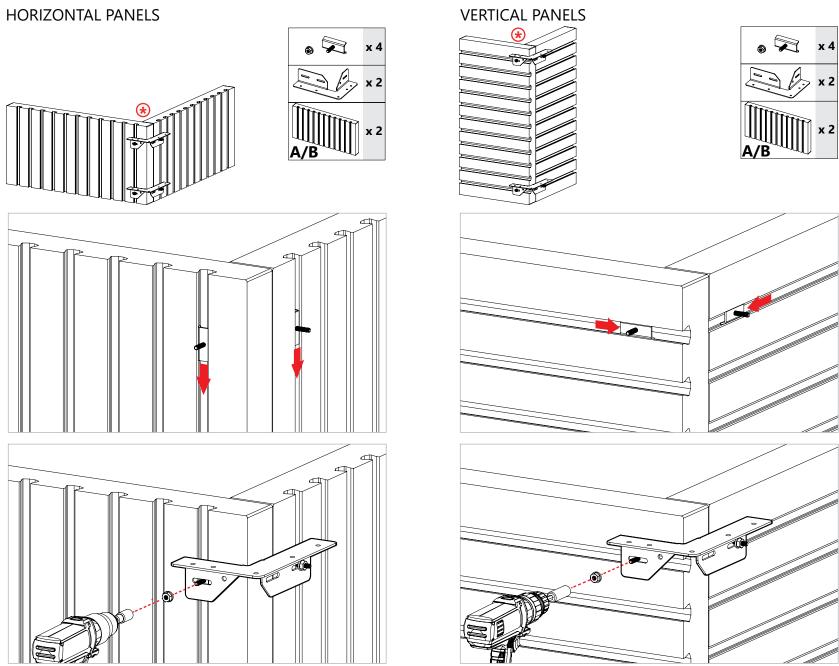




- **★ IMPORTANT:** Always use a minimum of 2 outer corner brackets per corner assembly. ► See Tips and tricks from page 26 for more details.

#### **INNER CORNER INSTALLATION**



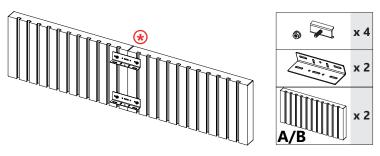


**★ IMPORTANT:** Always use a minimum of 2 inner corner brackets per corner assembly. ► See Tips and tricks from page 26 for more details.

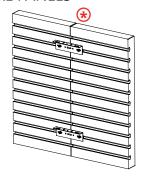
#### JOINING PLATE INSTALLATION

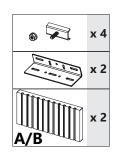


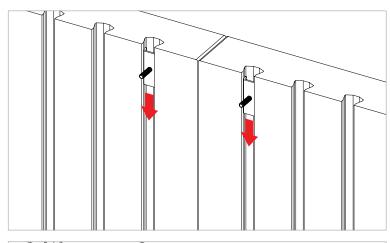
#### HORIZONTAL PANELS

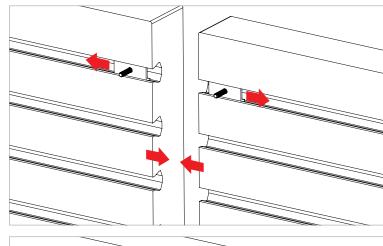


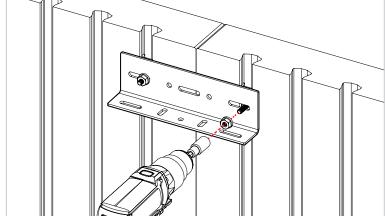


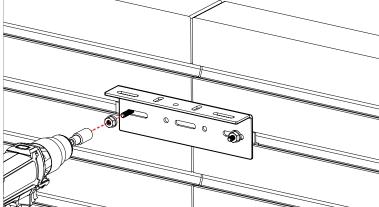










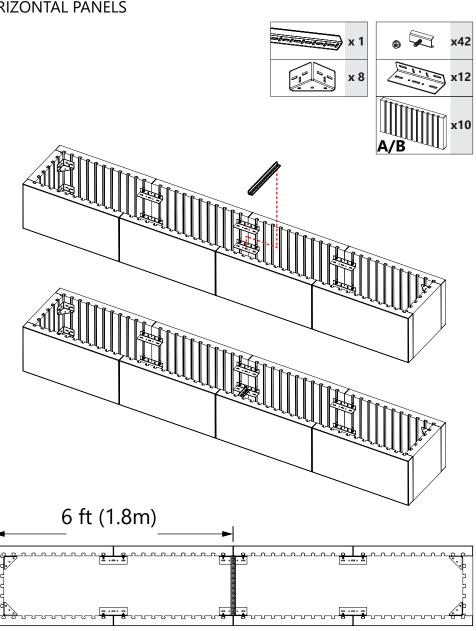


**★ IMPORTANT:** Always use a minimum of 2 joining plates when joining two parallel panels. ► See Tips and tricks from page 26 for more details.

#### **STRETCHER BAR INSTALLATION**

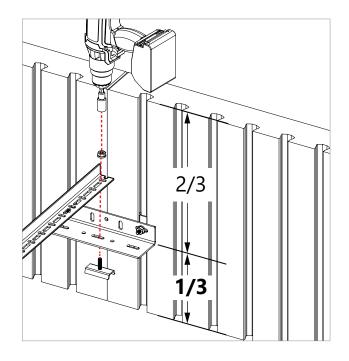


**HORIZONTAL PANELS** 

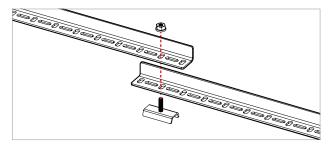


The stretcher bar keeps parallel 2 sets of panels facing each other. It is recommended to attach the stretcher bar to the joining plate every 6ft (1.8m). Place it at 1/3 of the total height from the bottom of assembly.

The stretcher bar must be cut to fit distance between 2 sets of panels.



**NOTE:** The stretcher bar can be extended.

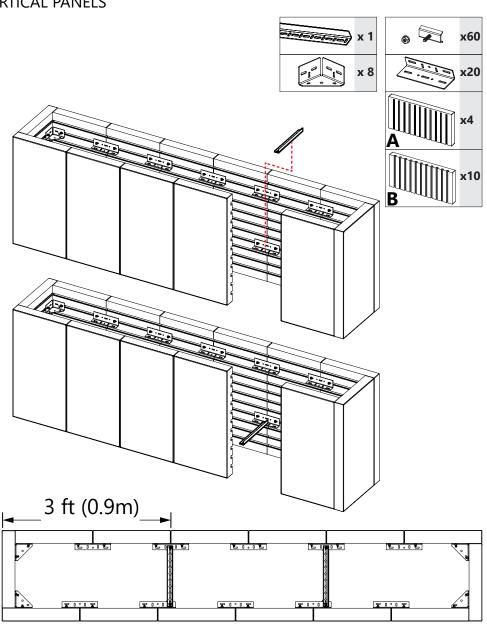


► See Tips and tricks from page 26 for more details.

#### **STRETCHER BAR INSTALLATION**

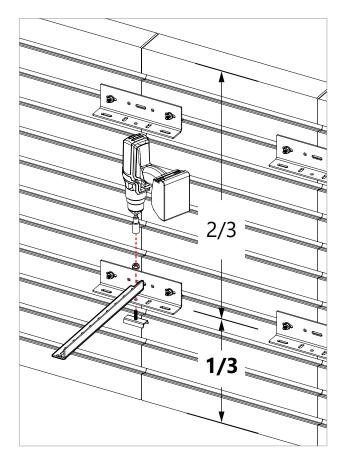


**VERTICAL PANELS** 



The stretcher bar keeps parallel 2 sets of panels facing each other. It is recommended to attach the stretcher bar to the joining plate every 3ft (0.9m). Place it at approximately 1/3 of the total height from the bottom of assembly.

The stretcher bar must be cut to fit distance between 2 sets of panels.

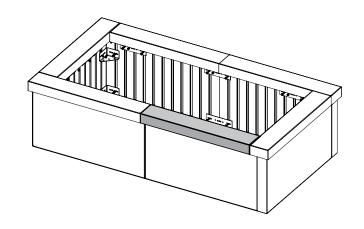


<sup>►</sup> See Tips and tricks from page 26 for more details.

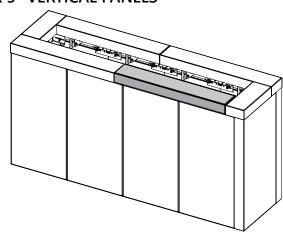
#### 6x36 PANEL - COPING INSTALLATION (MECHANICALLY FIXED)

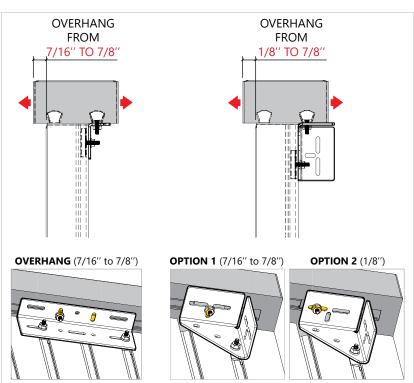


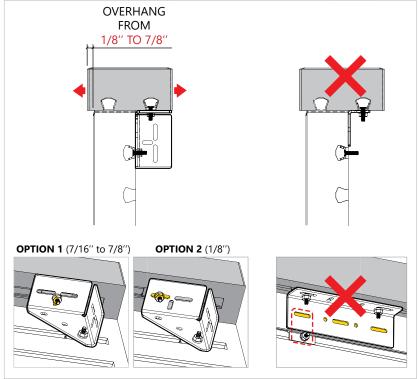
#### 18 x 36 x 3" HORIZONTAL PANELS



#### 18 x 36 x 3" VERTICAL PANELS



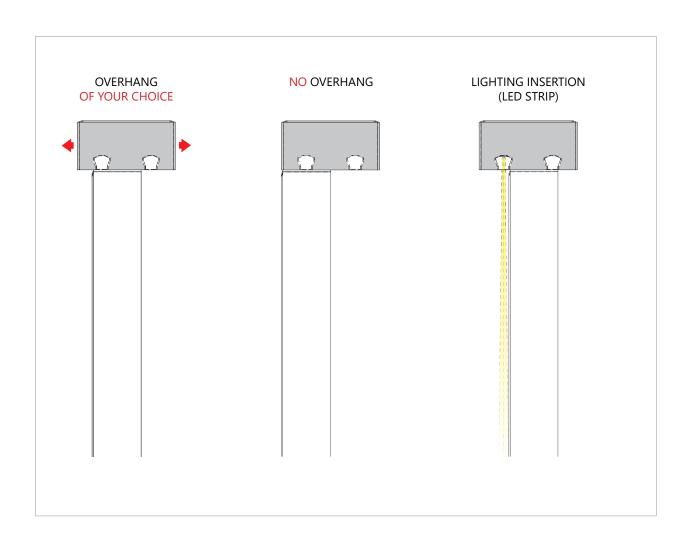


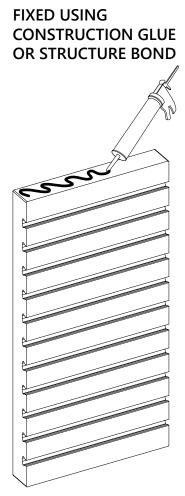


<sup>►</sup> See Tips and tricks from page 26 for more details.

#### 6x36 PANEL - COPING INSTALLATION (FIXED WITH ADHESIVE)

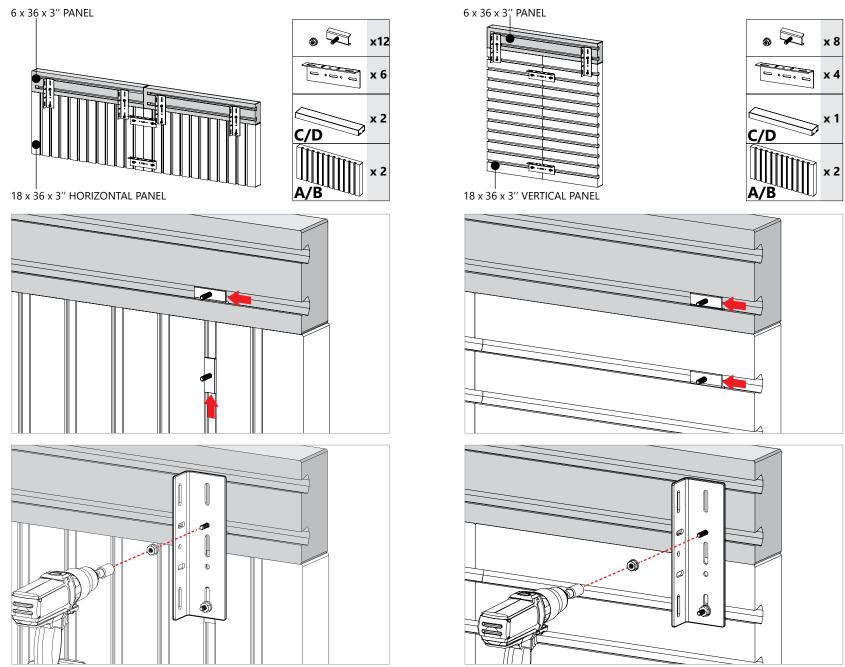






#### 6X36 PANEL - ACCENT INSTALLATION



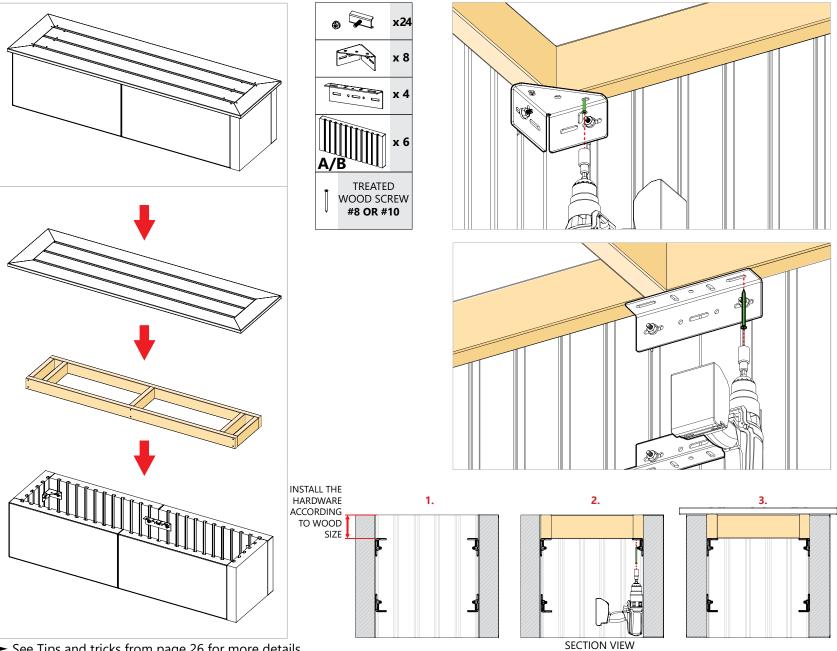


**MPORTANT:** Always use a minimum of 2 joining plates when joining 6x36 panel with 18x36 panel

► See Tips and tricks from page 26 for more details.

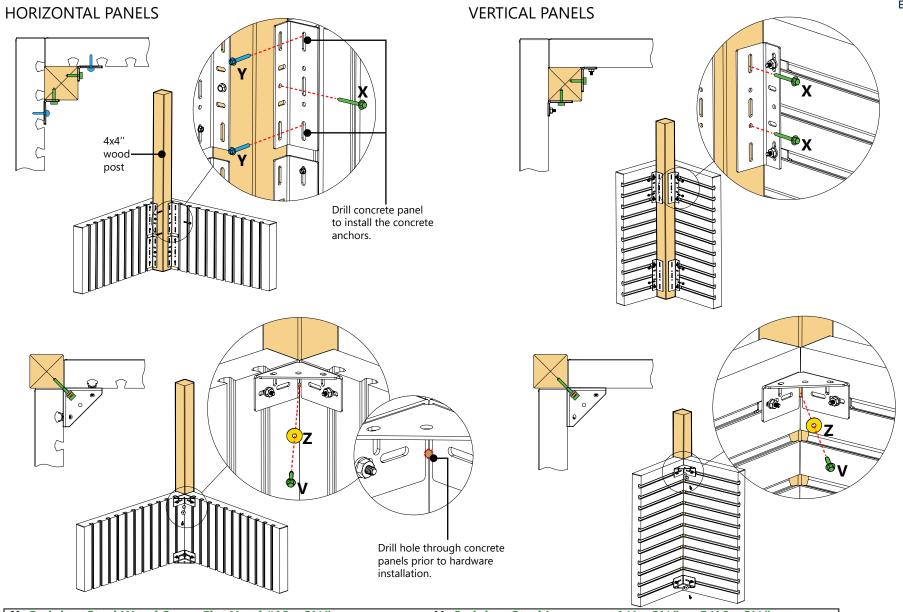
#### **INTEGRATING WOOD**

#### **BENCH**



#### INTEGRATING 4x4" WOOD POSTS





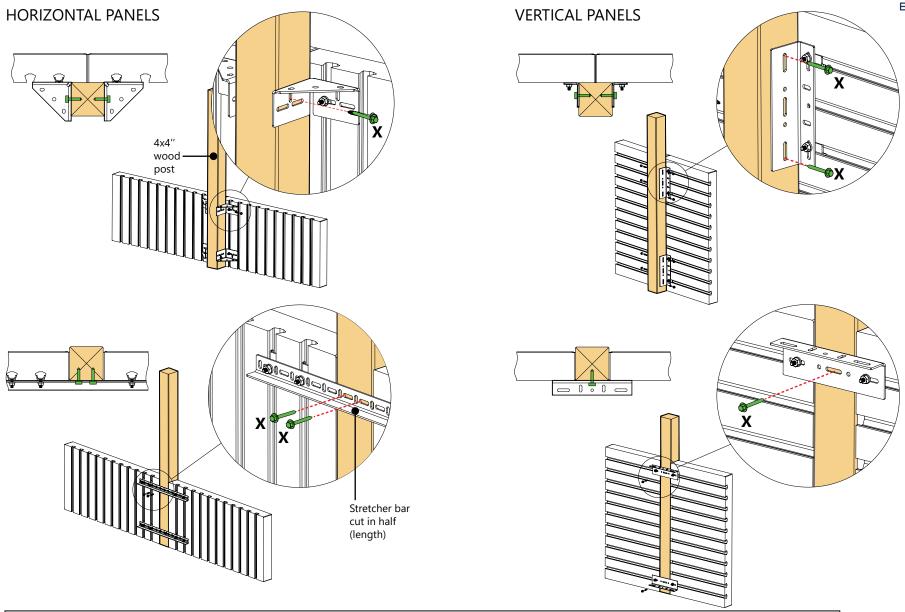
X=Stainless Steel Wood Screw Flat Head #10 x 2½"

V=Stainless Steel Lag screws 1/4 x 2½" or 5/16 x 2½"

Y=Treated Concrete Anchor (Tapcon®) 1/4"x1¾" or 3/16"x1¾" Z=Stainless Steel Oversized Washer 5/16"

**IMPORTANT:** Other types of hardware (not included) may be required to make these assemblies (wood screws, concrete anchors, etc.). **BELGARD** is not responsable for any issue regarding other materials, accessories, other types of hardware, etc. *We recommend consulting an expert/engineer to determine the design limitations of the screen panels based on wind loads.* 

#### INTEGRATING 4x4" WOOD POSTS



X=Stainless Steel Wood Screw Flat Head #10 x 21/2"

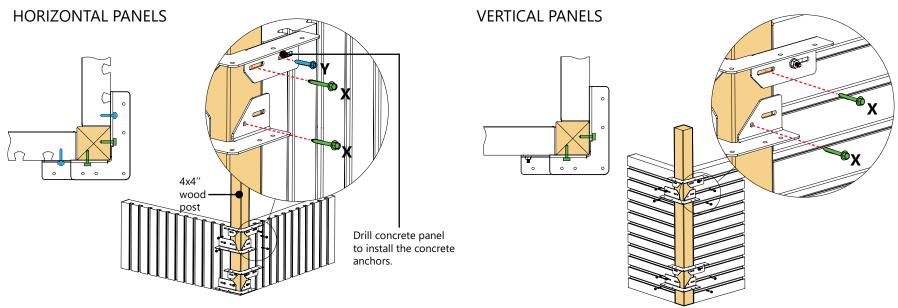
V=Stainless Steel Lag screws 1/4 x 2½" or 5/16 x 2½"

Y=Treated Concrete Anchor (Tapcon®) 1/4"x1¾" or 3/16"x1¾" Z=Stainless Steel Oversized Washer 5/16"

**IMPORTANT:** Other types of hardware (not included) may be required to make these assemblies (wood screws, concrete anchors, etc.). **BELGARD** is not responsable for any issue regarding other materials, accessories, other types of hardware, etc. *We recommend consulting an expert/engineer to determine the design limitations of the screen panels based on wind loads.* 

#### INTEGRATING 4x4" WOOD POSTS





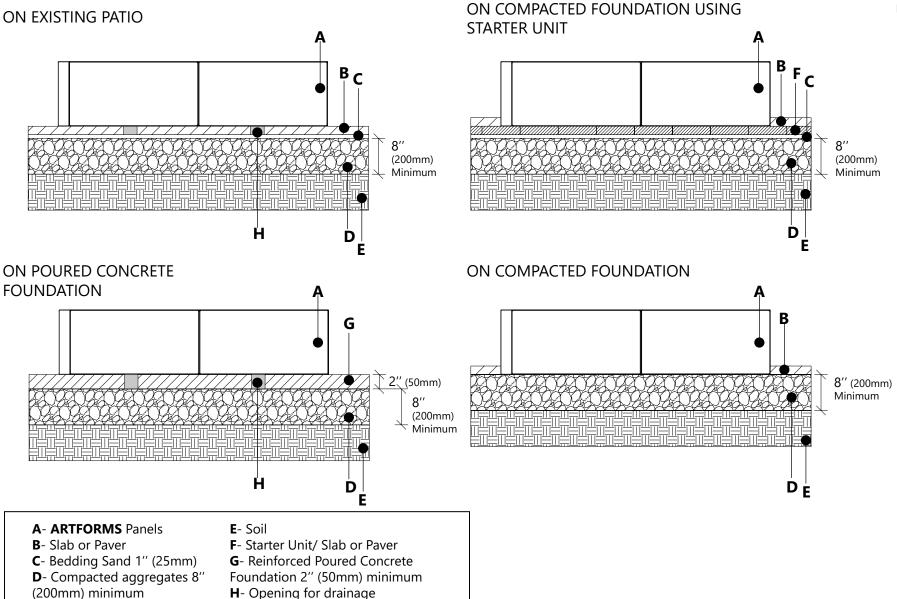
X=Stainless Steel Wood Screw Flat Head #10 x 21/2"

V=Stainless Steel Lag screws 1/4 x 21/2" or 5/16 x 21/2"

Y=Treated Concrete Anchor (Tapcon®) 1/4"x13/4" or 3/16"x13/4" Z=Stainless Steel Oversized Washer 5/16"

#### **BASE PREPARATION**



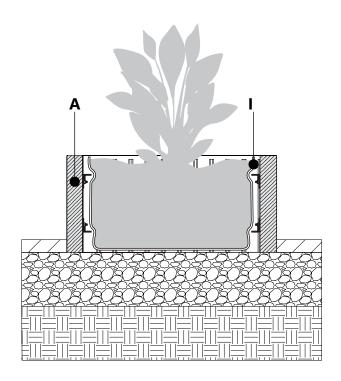


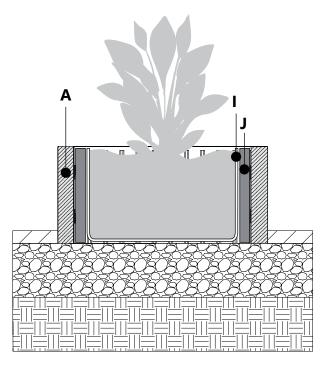
**IMPORTANT:** Provide adequate drainage and adjust according to soil type. Maximum height of **36**" for planter box and **42**" for outdoor living structure. Any higher structure must be designed by an engineer. Dimensions and information above are general recommendations only. Contact experts/engineers to validate the base preparation, the drainage, the plants & roots growth/management. The use of plastic shims can facilitate the installation of **Artforms** panels in order to adapt to the slope of the site.

#### PLANTER BOX DETAIL

## BELGARD

#### ON COMPACTED FOUNDATION

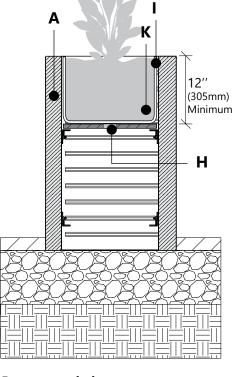




#### Recommended:

K- Structural Water Resistant Panel

Place insulated panels to protect plants from cold conditions.



#### **Recommended:**

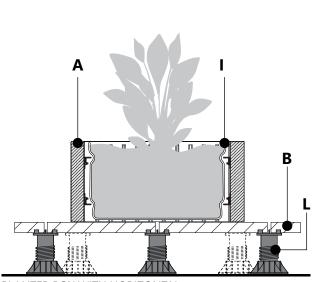
Place a cement board on top of the Artforms hardware to reduce the amount of infill material.

- A- ARTFORMS Panels
- **H-** Opening for drainage
- I- Geotextile membrane
- J- Insulated panel

**IMPORTANT:** Provide adequate drainage and adjust according to soil type. Maximum height of **36**" for planter box and **42**" for outdoor living structure. Any higher structure must be designed by an engineer. Dimensions and information above are general recommendations only. Contact experts/engineers to validate the base preparation, the drainage, the plants & roots growth/management. The use of plastic shims can facilitate the installation of **Artforms** panels in order to adapt to the slope of the site.

#### **ROOFTOP APPLICATIONS**

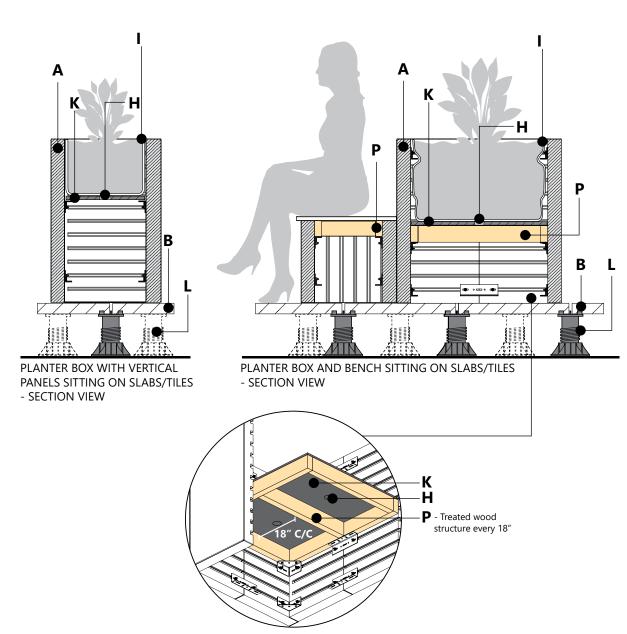




PLANTER BOX WITH HORIZONTAL PANELS SITTING ON SLABS/TILES - SECTION VIEW

A- ARTFORMS Panels
B- Slab or Tile
H- Opening for drainage
I - Geotextile Membrane
K- Structural Water Resistant Panel
L- Pedestal

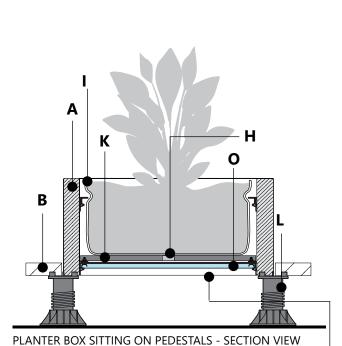
P- Treated Wood Structure

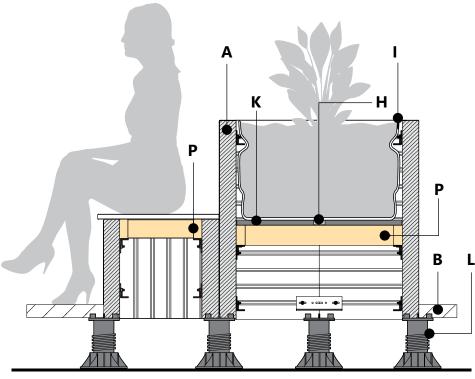


**IMPORTANT:** Contact experts/engineers for proper staging on existing rooftop surfaces.

#### **ROOFTOP APPLICATIONS**

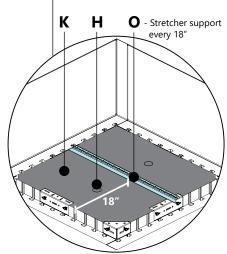


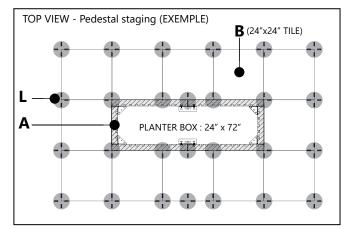




BENCH AND PLANTER BOX SITTING ON PEDESTALS - SECTION VIEW

- A- ARTFORMS Panels
- **B** Slab or Tile
- **H** Opening for drainage
- I Geotextile Membrane
- **K** Structural Water Resistant Panel
- L- Pedestal
- **O** Stretcher bar
- P- Treated Wood Structure

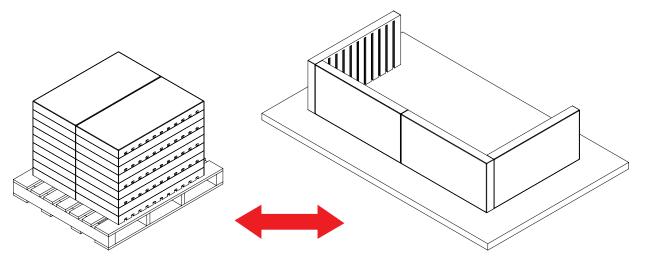




**IMPORTANT:** Contact experts/engineers for proper staging on existing rooftop surfaces.

#### **HANDLING**

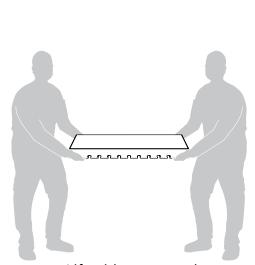




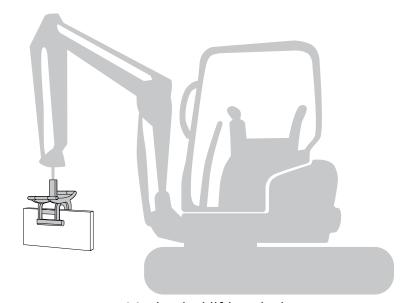
Place pallet close to installation area



Recommended handling tool



Lift with two people



Mechanical lifting device



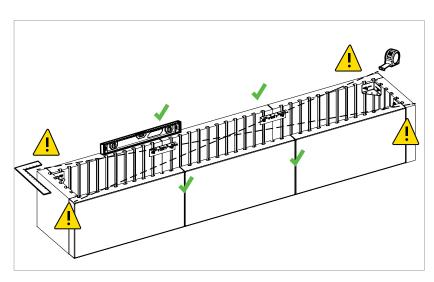
Use hand trolley if necessary

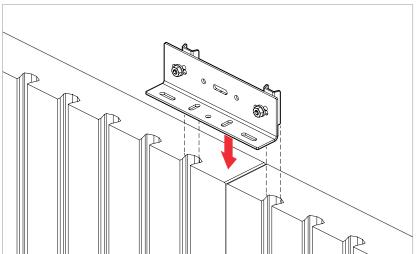
#### TIPS AND TRICKS



installation.

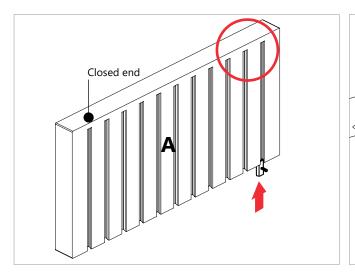
**#1** [General]: Ensure that all the panels are in place, levelled & aligned before fully tightening the hardware in the corners at the end of the tighten the hardware at the end of the installation.

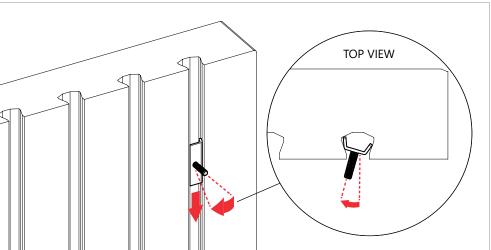




of the closed end panel (panel A) prior to its assembly. down and to facilitate assembly.

**#3** [Anchor slide]: Insert anchor slides from the bottom **#4** [Anchor slide]: Insert the anchor slide. Lock it into place to prevent it from sliding



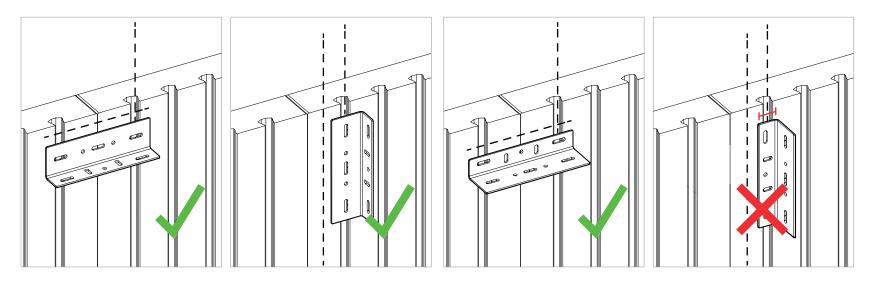


#### TIPS AND TRICKS



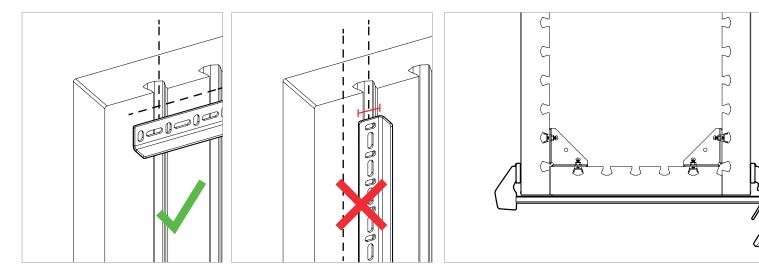
**#5** [Joining plate]: Use the larger tab of the joining plate when it is perpendicular or parallel to the dovetail slot.

#6 [Joining plate]: Only when the joining plate is perpendicular to the dovetail, the small tab can be used. Otherwise, the overlapping surface will be too narrow.



**#7** [Stretcher bar]: Use the stretcher bar when it is perpendicular to **#8** [Bar Clamp]: Use the bar clamp to keep the panels in place and to the dovetail. Otherwise, the overlapping surface will be too narrow.

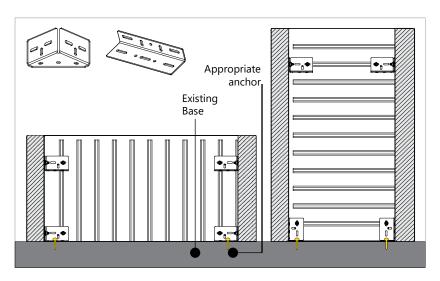
facilitate the hardware installation.



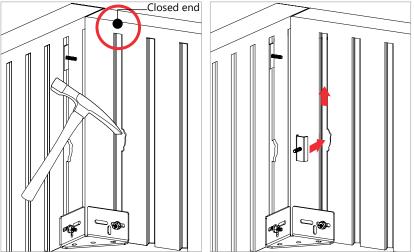
#### TIPS AND TRICKS



**#9** [General]: If required it is possible to secure the **ARTFORMS** structure to the existing base by placing the hardware against it. Contact experts/engineers to validate the structure and any related matters.



**#11** [General]: In the case you forgot to place the anchor slides when the closed end panels (panel A) have already been assembled, use a chipping hammer to break a small section of the dovetail slot to insert the anchor slide.



**#10** [General]: If the side to side panels have a different thickness, use plastic shims to align the front face.

