



# [BYNATURE]

*Enjoy. Breathe. Feel good.*

## NEXT GEN LIVING WALL INSTALLATION GUIDE



# TABLE OF CONTENTS

Tools	<b>03</b>
Components	<b>04</b>
Installation instructions	<b>06</b>
Appendix I	<b>11</b>
Appendix II	<b>12</b>
Appendix III	<b>13</b>
Appendix IV	<b>14</b>
Appendix V	<b>15</b>

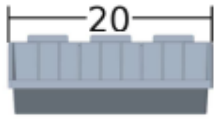
# TOOLS

- Stud Finder
- Tape Measure
- Level
- Power Drill (and drivers)
- Flat Head Screw Driver
- Punch (optional)
- Pencil
- NextGen Grid Spacing Tool (Supplied by ASI upon request)



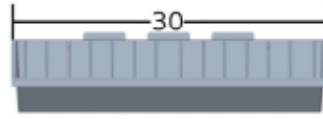
# COMPONENTS

## NEXTGEN FOR 6" PLANTS



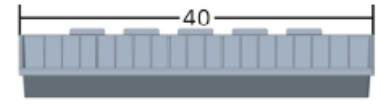
**PT-50-1312**

Holds *three* 6" plants



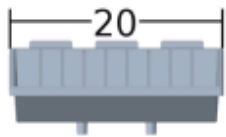
**PT-75-1312**

Holds *four* 6" plants



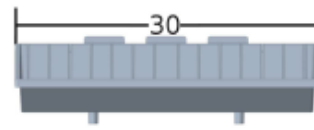
**PT-100-1312**

Holds *five* 6" plants



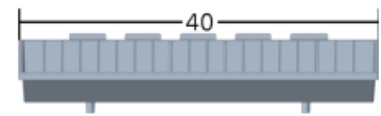
**PT-50-1312-DP**

Holds *three* 6" plants  
Includes 2 leaf screens  
and 2 drain hoses



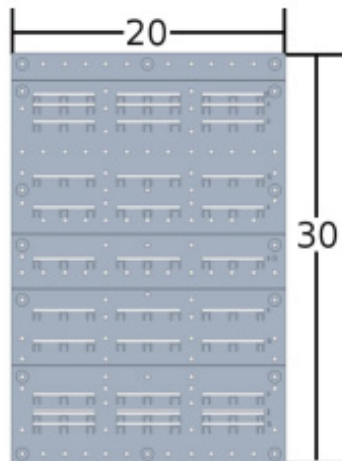
**PT-75-1312-DP**

Holds *four* 6" plants  
Includes 2 leaf screens  
and 2 drain hoses

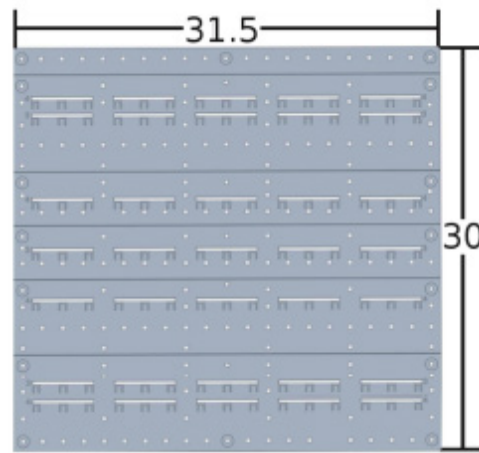


**PT-100-1312-DP**

Holds *five* 6" plants  
Includes 2 leaf screens  
and 2 drain hoses



**GRID-5075**



**GRID-8075**



**PTCR-1312**

Holds *three* 6" plants



**PTCR-1312-DP**

Holds *three* 6" plants  
Includes 2 leaf screens  
and 2 drain hoses



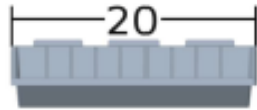
Drain Hose\*



Leaf Screen\*

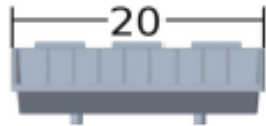
\*for more information, go to Appendix V

## NEXTGEN FOR 4" PLANTS



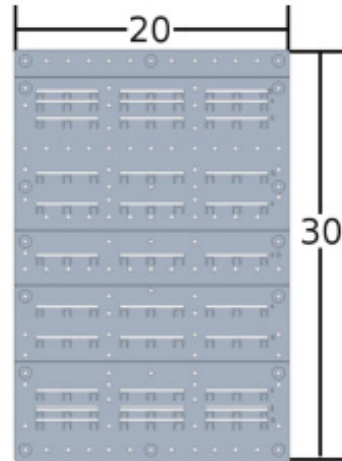
**PT-50-1210**

Holds *four* 4" plants



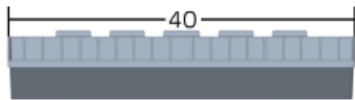
**PT-50-1210-DP**

Holds *four* 4" plants  
Includes 2 leaf screens  
and 2 drain hoses



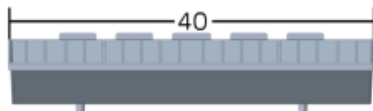
**GRID-5075**

## NEXTGEN FOR 8" PLANTS



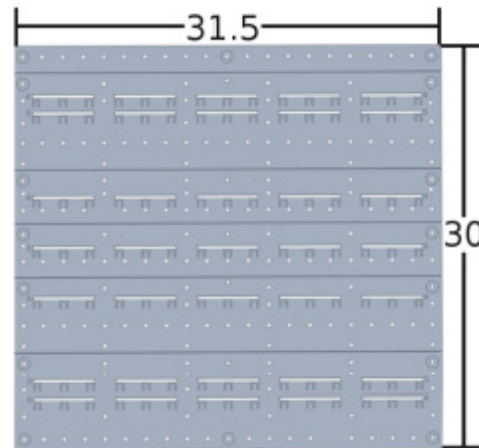
**PT-100-1512**

Holds *four* 8" plants



**PT-100-1512-DP**

Holds *four* 8" plants  
Includes 2 leaf screens  
and 2 drain hoses



**GRID-8075**

## OPTIONAL COMPONENTS



Plant Boosters



Various Fasteners  
(see appendix II)



Plant Straw\*



Side panels\*  
with side panel connectors

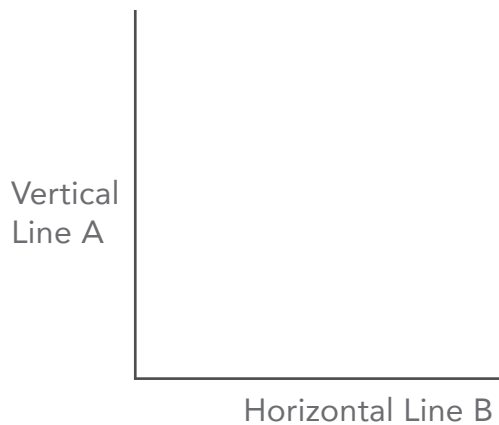


LED Lights

\*for more information, go to Appendix V

# INSTALLATION INSTRUCTIONS

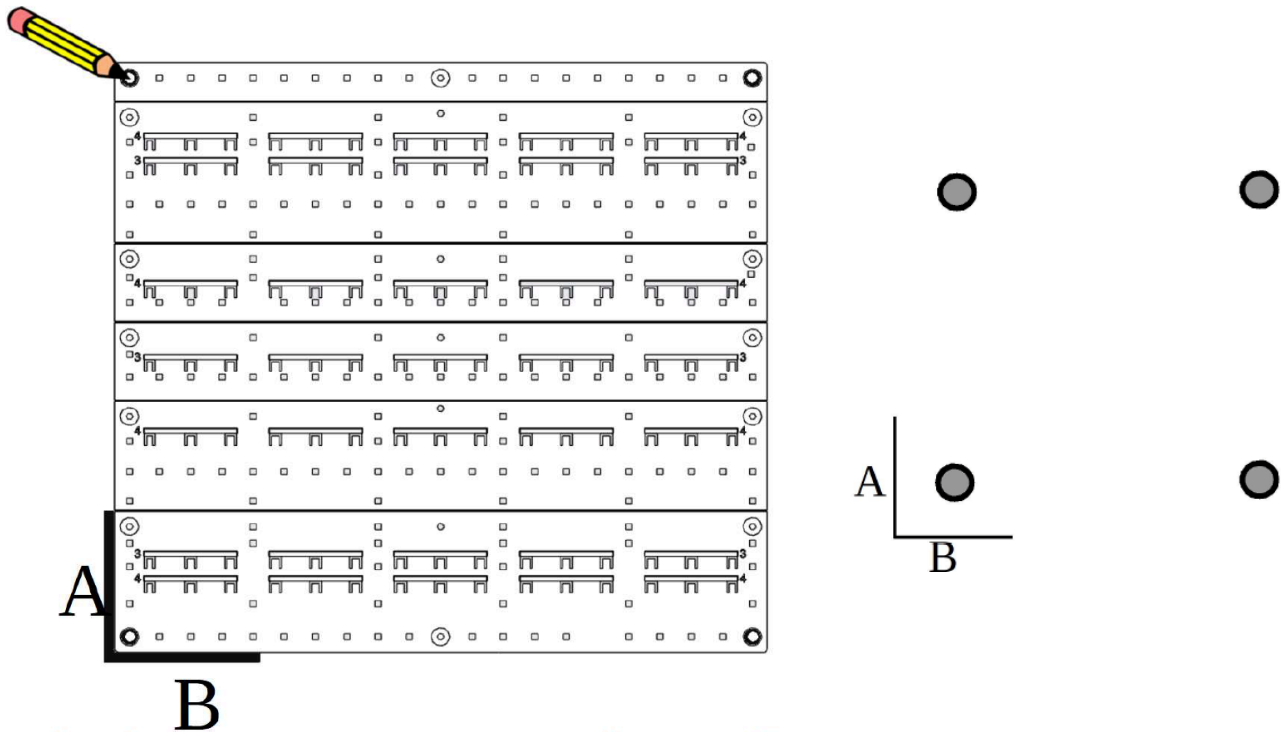
1. If dry wall installation, do preliminary check for studs using stud finder.
2. Draw location of lower left grid using measuring tape, level and pencil.



Location of Vertical Line A is determined by dimensions in *Appendix I, Section A*.  
Location of Horizontal Line B is determined by dimensions in *Appendix I, Section B*.

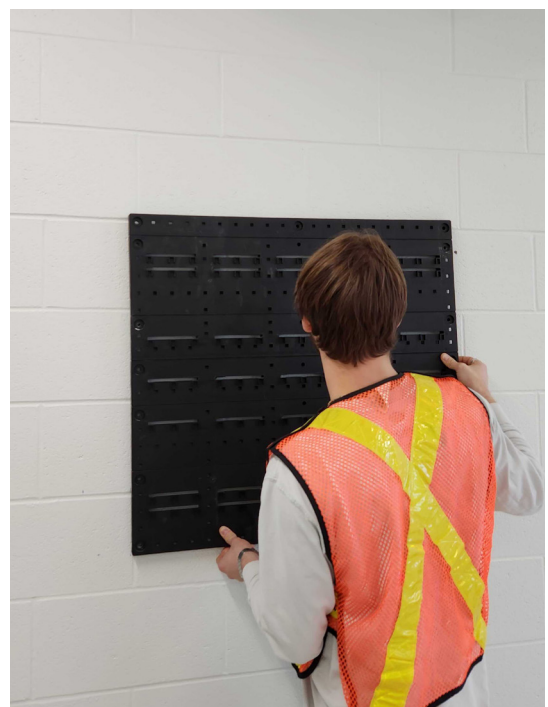
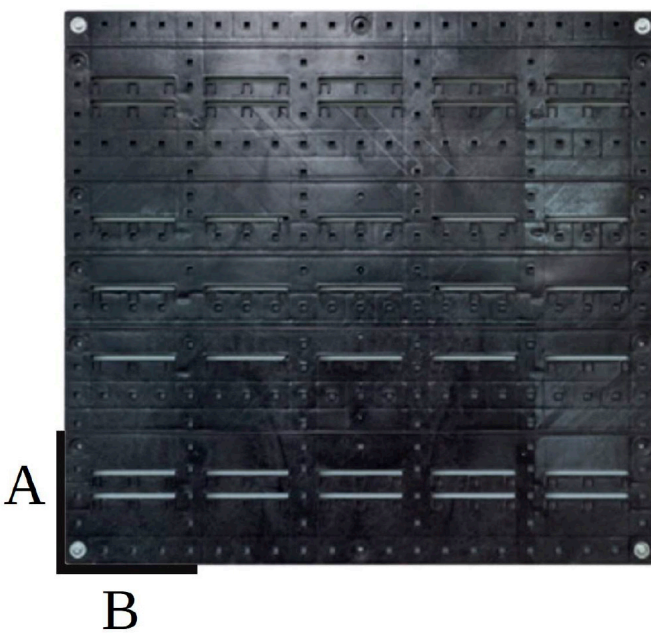
3. Recheck and mark location of studs using stud finder.

4. Align grid against lines A and B, then mark holes for mounting first grid using punch or pencil (punch is preferred).

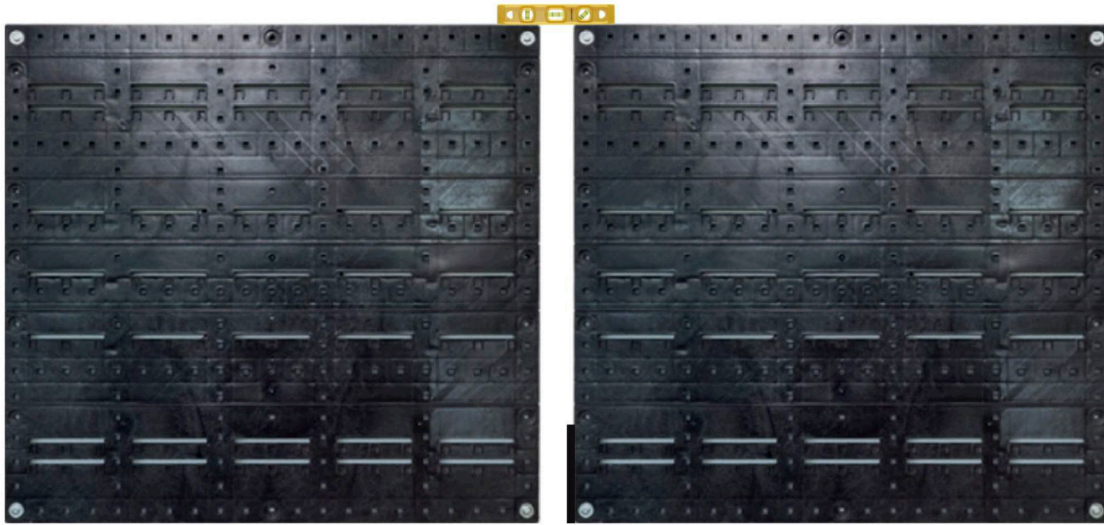


This is a two-person job. One person holds the grid in place while the other person marks the holes.

5. Mount first grid using appropriate fastener(s) (see Appendix II).

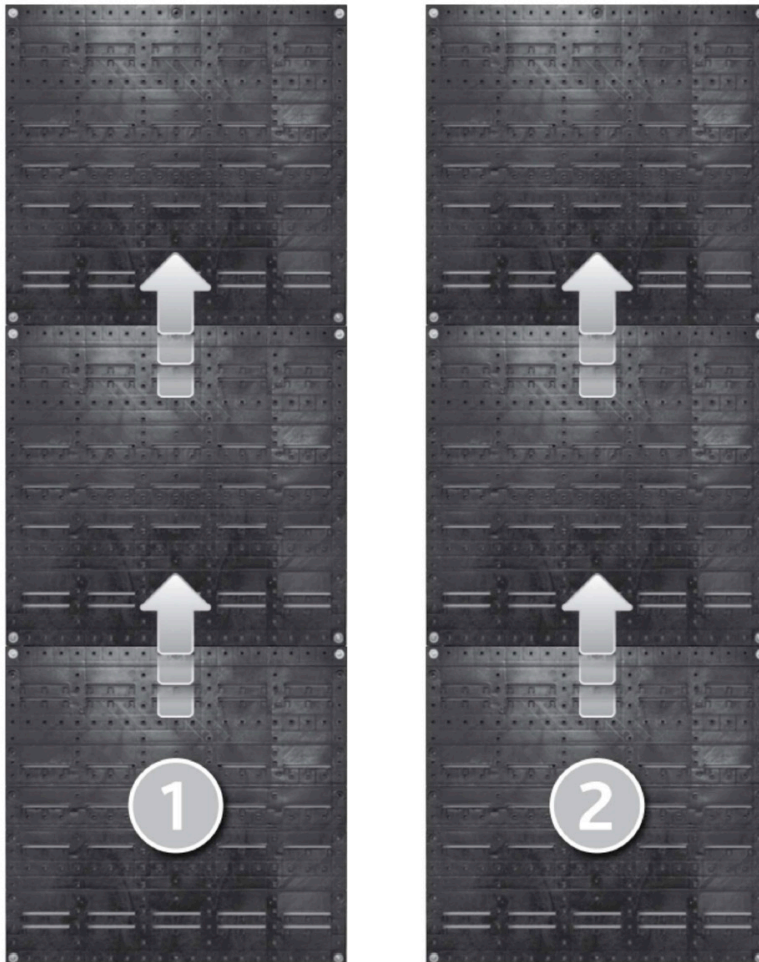


6. Finish bottom row moving from left to right with appropriate spacing between grids. Use Vertical Line C (see Appendix I, Section C) for each successive grid. Place level on top of each grid to make grids aligned.



C

7. Complete vertical grid installation.



Height adjustments can be made using cutdowns of the top grid of each stack.

See Appendix III for available height adjustments.



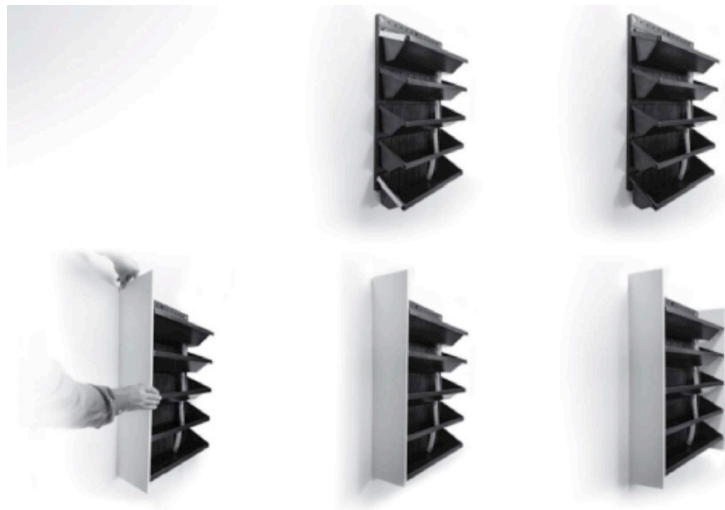
8. Install trays from bottom up.  
Bottom tray is normally the tray with no drains.



Hoses and leaf screens should be attached before trays are installed.



9. Install the side panels (if specified as part of the job).



10. Plant the wall.

11. Water the wall.

# APPENDIX I

## A - LOCATION OF VERTICAL GRID LINE A FOR FIRST GRID PLACEMENT

*start on left side of the wall*

	Description	Tray length	Grid length	Total difference	Vertical grid line location*
PT-50-1210 on GRID-5075	20" tray on 20" grid	20"	20"	0"	0
PT-50-1312 on GRID-5075	20" tray on 20" grid	20"	20"	0"	0
PT-75-1312 on GRID-5075	30" tray on 20" grid	30"	20"	10"	5
PT-100-1312 on GRID-8075	40" tray on 30" grid	40"	32"	8"	4
PT-100-1519 on GRID-8075	40" tray on 30" grid	40"	32"	8"	4

*\*Vertical grid line for first grid will be this distance from the left border of the NextGen wall*

## B - LOCATION OF HORIZONTAL GRID LINE B FOR FIRST GRID PLACEMENT

	Description	Plant size for tray	Amount of overhang*	Slot # placement
PT-50-1210 on GRID-5075	20" tray on 20" grid	4"	2.5"	#5 slot
PT-50-1312 on GRID-5075	20" tray on 20" grid	6"	3"	#4 slot
PT-75-1312 on GRID-5075	30" tray on 20" grid	6"	3"	#4 slot
PT-100-1312 on GRID-8075	40" tray on 30" grid	6"	3"	#4 slot
PT-100-1519 on GRID-8075	40" tray on 30" grid	8"	2"	#3 slot

*\* The bottom of the grid should be located this distance above the desired bottom location of the living wall since the bottom tray will hang down that amount below the grid.*

## C - HORIZONTAL SPACING BETWEEN GRIDS BASED ON TRAYS BEING USED

*vertical line C*

Adjacent trays	Description	Plant size for tray	Space between grids
PT-50-1210 beside PT-50-1210	20" tray beside 20" tray	4"	0"
PT-50-1312 beside PT-50-1312	20" tray beside 20" tray	6"	0"
PT-50-1312 beside PT-75-1312	20" tray beside 30" tray	6"	5"
PT-50-1312 beside PT-100-1312	20" tray beside 40" tray	6"	4"
PT-75-1312 beside PT-75-1312	30" tray beside 30" tray	6"	10"
PT-75-1312 beside PT-100-1312	30" tray beside 40" tray	6"	9"
PT-100-1312 beside PT-100-1312	40" tray beside 40" tray	6"	8"
PT-100-1519 beside PT-100-1519	40" tray beside 40" tray	8"	8"

# APPENDIX II

## FASTENER INSTALLATION

Each fastener is designed for attaching to a specific type of wall. Make sure to use the correct type of fastener when attaching a NextGen wall. See below for each type of fastener and when to use it. Use caution not to over tighten any of the fasteners so as not to damage the grids.

### DRYWALL

#### Wall Anchor



Used when attaching NextGen grids to drywall. The screws with these anchor's are a custom length to have better engagement with the wall. We recommend only using the supplied 1 1/2" screw for NextGen installation.

- 1 Mark holes for fasteners using a pencil or a punch. The punch is most useful in drywall installs because it makes a good starter hole.
- 2 Drill 1/8" hole.
- 3 Use a Phillip's #2 screwdriver to insert the anchor into the wall.
- 4 Press firmly and turn clockwise until seated flush.
- 5 Use 1/4" nut driver or flat head screw driver to insert screw until fully seated.

### MASONRY

#### TapCon - 3/16 x 2<sup>1/4</sup>



Used when attaching NextGen grid to concrete or masonry.

- 1 Mark holes locations.
- 2 Drill using a hammer drill and 5/32" drill bit, drill hole 1/4" deeper than anchor embedment.
- 3 Drive anchor using a hammer drill with Phillips bit until fully seated.

### ALUMINUM STUDS

#### Teks self-tapping screws - #14x2<sup>1/2</sup>



Used for attaching to Aluminum studs.

- 1 Mark holes for fasteners using a pencil or a punch.
- 2 Use 3/8" hex driver for self-tapping metal screw until fully seated.

### WOOD STUDS

#### Lag screw - 3/16x2<sup>1/2</sup>



Used for attaching to wood studs.

- 1 Mark holes for fasteners using a pencil or a punch.
- 2 Use 7/16 hex driver to anchor lag screw until fully seated.

# APPENDIX III

## AVAILABLE HEIGHT OPTIONS

Tray	Slot	Grid height	# Trays on grid	Grid model #
PT-50-1210	Using a #5 slot	7"	1	GRID-2018
		12.5"	2	GRID-5032
		16.5"	3	GRID-5042
		27.5"	5	GRID-5070
		29.5"	5	GRID-5075
	Using a #4 slot	7"	1	GRID-2018
		12.5"	2	GRID-5032
		16.5"	3	GRID-5042
		27.5"	4	GRID-5070
		29.5"	4	GRID-5075
PT-100-1312 & PT-100-1519	Using a #4 slot	7"	1	GRID-8018
		12.5"	2	GRID-8032
		20.5"	3	GRID-8052
		27.5"	4	GRID-8070
		29.5"	4	GRID-8075
	Using a #3 slot	7"	1	GRID-8018
		16.5"	2	GRID-8042
		27.5"	3	GRID-8070
		29.5"	3	GRID-8075

# APPENDIX IV

## CORNER TRAY INSTALLATION

NextGen corner trays are mounted differently than the other trays. They hang from trays on either side of the wall and are also screwed directly into the walls corner stud.

When using corner trays, grids should be started from the corner where the corner trays will be located. See table A below for the distance each grid should be placed in inches from the corner. The edge of the tray will always be 8" from the corner. See Figure B.

### GRID DISTANCE FROM CORNER IN INCHES

Tray	Description	Distance from corner to grid
PT-50-1312 on GRID-5075	20" tray on 20" grid	8"
PT-75-1312 on GRID-5075	30" tray on 20" grid	12.75"
PT-100-1312 on GRID-8075	40" tray on 30" grid	11.75"

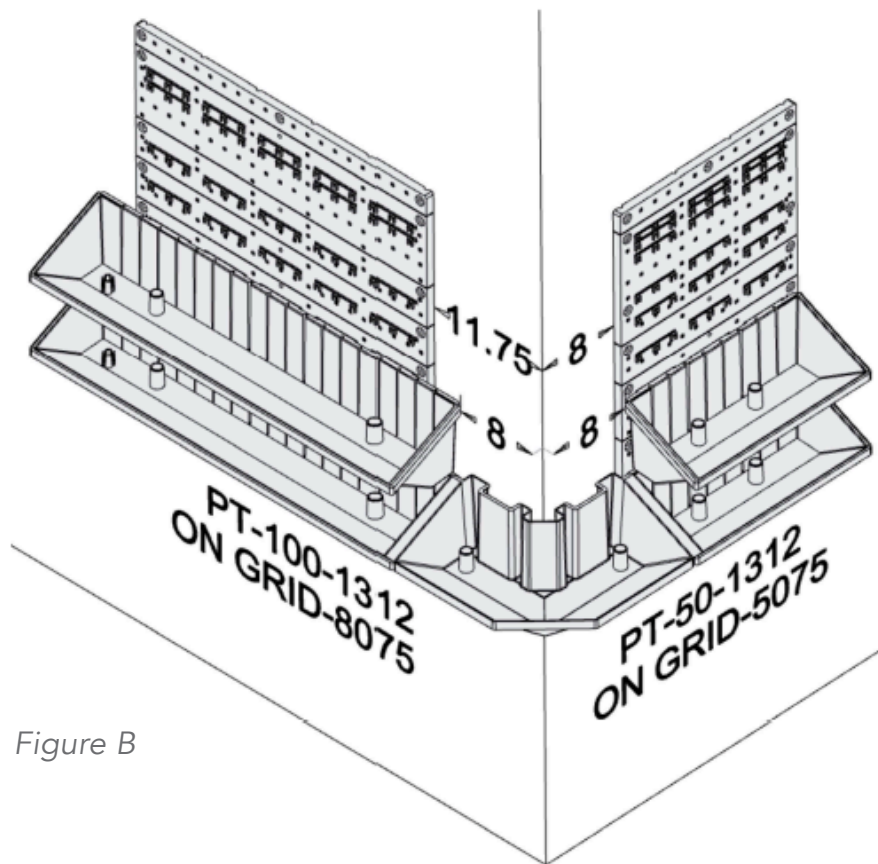


Figure B

# APPENDIX V

## DRAIN HOSE

### What it is

Drain hoses are flexible tubes connected to the bottom of each tray to manage excess water. They allow water to flow from upper trays down to lower levels or into a designated drainage point.

### Purpose

- Prevent water buildup inside trays
- Ensure proper irrigation flow-through
- Protect plants from root rot and oversaturation

### Installation

1. Attach drain hoses to the designated outlets on each tray before installing trays onto the grid
2. Ensure hoses are securely fitted and not kinked
3. Route hoses downward, following gravity
4. Direct the final discharge toward:
  - A bottom collection tray, or
  - A building drain / reservoir system (depending on design)

### Best practices

- Keep hose runs as straight as possible
- Avoid pinching when placing trays
- Test flow with water before planting

## LEAF SCREEN

### What it is

A small insert placed inside the drain outlet to prevent debris from entering the drainage system.

### Purpose

- Stops soil, roots, and plant debris from clogging drain hoses
- Maintains consistent water flow
- Reduces maintenance issues over time

### Installation

1. Insert the leaf screen directly into the drain opening of each tray
2. Install before connecting the drain hose
3. Ensure it sits firmly and does not move when water flows

### Best practices

- Check alignment before installing trays
- Clean or inspect during maintenance visits

## PLANT BOOSTER

### What it is

A support accessory used to elevate smaller root balls within the tray.

### Purpose

- Raises plants to the correct height for optimal positioning
- Improves root-to-water contact
- Helps maintain a uniform plant surface across the wall

### Installation

1. Place the plant booster inside the tray before inserting the plant
2. Position it directly under the root ball
3. Adjust quantity depending on plant size (typically used for smaller or shallower pots)

### **Best practices**

- Use to maintain consistent visual coverage
- Avoid over-stacking (plant should sit securely, not loosely)

## **PLANT STRAW**

### **What it is**

A rigid or semi-rigid tube used to deliver water directly to the root zone.

### **Purpose**

- Allows targeted watering during installation or maintenance
- Improves water penetration to deeper roots
- Reduces surface runoff

### **Installation**

1. Insert vertically into the soil/root zone after planting
2. Position near the center of the plant root ball
3. Ensure the top of the straw remains accessible

### **Best practices**

- Use during initial watering to ensure full saturation
- Particularly useful for dense or mature plant installations

## **SIDE PANELS**

### **What they are**

Vertical finishing panels installed on the sides of the living wall system.

### **Purpose**

- Provide a clean, finished appearance
- Conceal edges of trays, grids, and irrigation components
- Help guide water and protect adjacent surfaces

### **Installation**

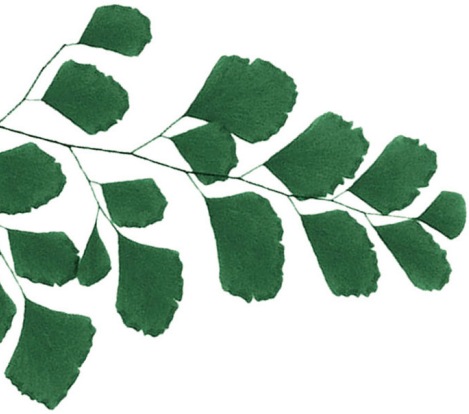
1. Install after trays are mounted
2. Attach using side panel connectors or specified fasteners
3. Align panels flush with the outer edge of the system
4. Ensure panels do not interfere with tray placement or drainage

### **Best practices**

- Confirm final wall dimensions before installation
- Install last to allow full access during earlier steps
- Check alignment for a seamless finish

### **Quick installation reminder**

- *Drain hoses and leaf screens*: install before trays
- Trays: install bottom to top
- Side panels: install after trays are complete



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