



EXPANDED WALLS SOLUTION GUIDE

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DIRTT

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OVERVIEW

This document is an install guide and overview for the **EXPANDED WALL**. This document includes information on design intent, technical tips, hardware & parts, installation rules, product installations and expected outcomes.

All installation questions should be directed to your DIRTТ project manager (PM) or a DIRTТ field technician. Send email inquiries to info@dirtt.com.

The need for adaptable building solutions drives DIRTТ's design initiatives. Expanded Walls exemplify this by providing a full solution to fit the needs of a variety of building environments. The wall thickness expands to accommodate site conditions and is fully customizable.

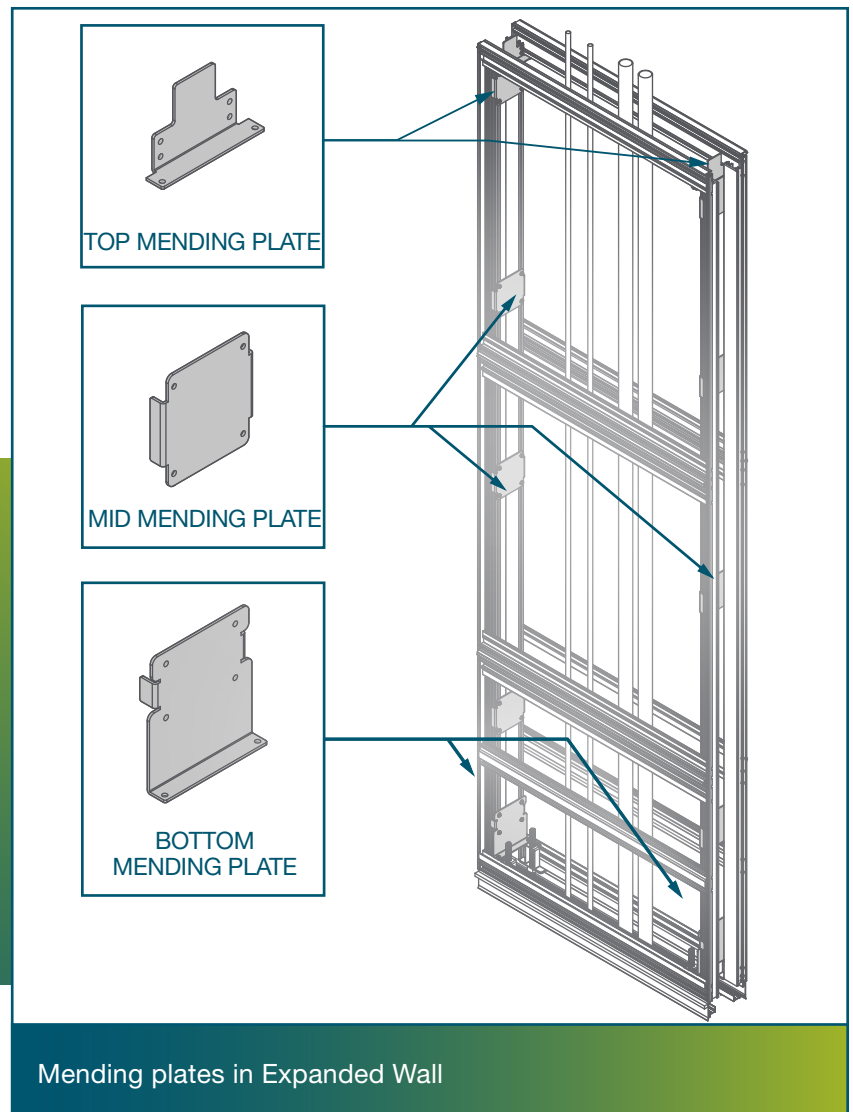
The Expanded Wall consists of 2" TAOS Wall Solutions - QTY 2 on either side of the Expanded Wall mending plates. Mending plates allow the wall thickness to range from 6" (152mm) to 12" (305mm) parametrically. Expanded Wall applications include, but are not limited to, media walls, plumbing walls, and DIRTТ wall solutions for base building columns or obstructions.

Mending Plates

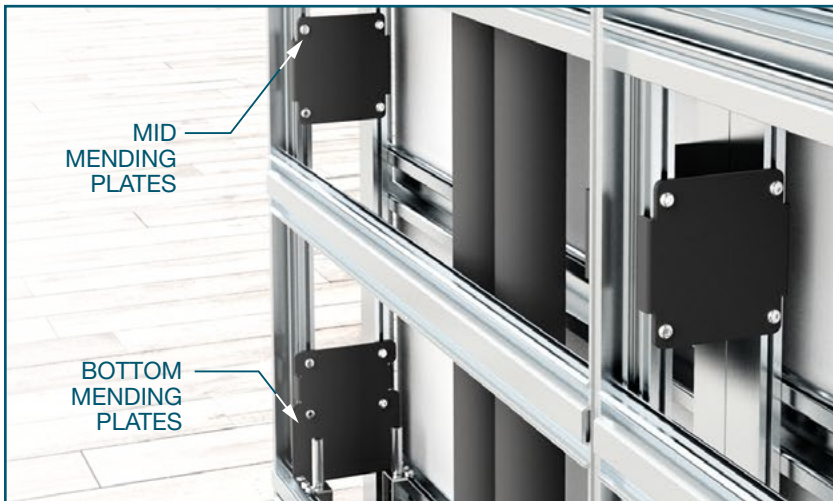
The Expanded Wall includes 2" TAOS - QTY 2 frames connected together by mending plates. The mending plates are located at the top, mid and bottom section of the frame on both ends (see Figure 1). The mending plates attach to the frame vertical as well as the top and bottom horizontal extrusions (see Figure 2 & 3).

Features

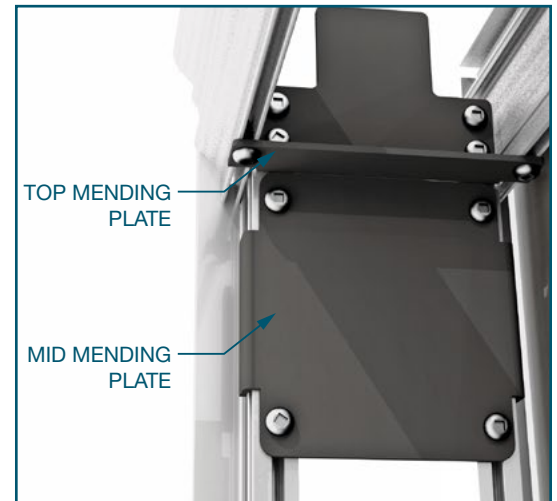
- Mending plates provide enough space between walls to accommodate for large diameter pipes.
- The wall is customizable to job specific requirements.
- Wall depth can range between 6" (152mm) to 12" (305mm) with the use of mending plates.



Mending Plates (continued)

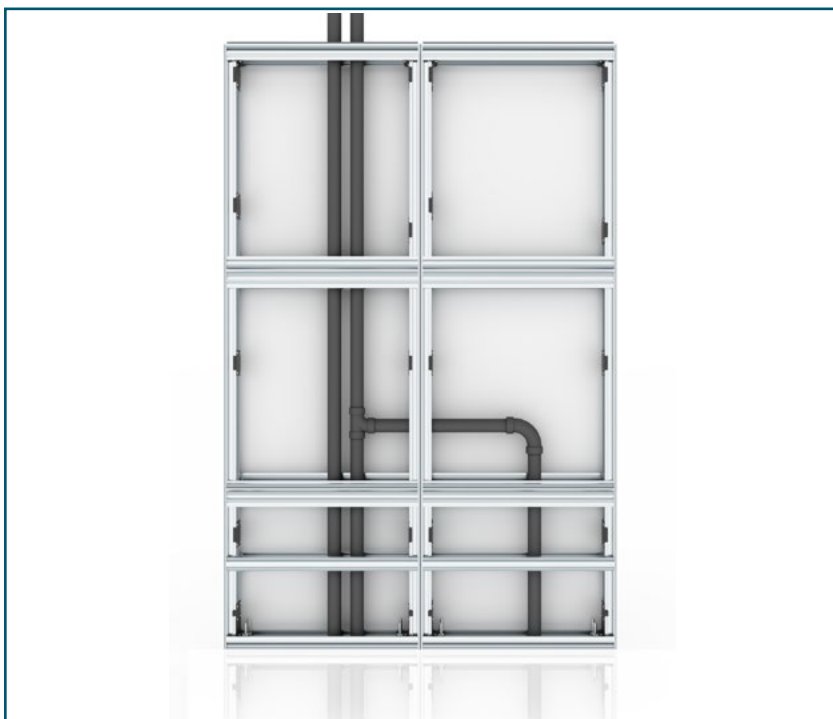


Mid and Bottom Mending Plates



Top Mending Plate

The mending plates are designed to provide flexible options when it comes to custom fits around pipes, plumbing, base building columns and post.



Expanded Wall provides space for plumbing to run through the frames both vertically and horizontally.



Expanded wall is a dynamic solution that offers ways to work around base building structures.

PART REFERENCES

PART	DESCRIPTION	QUANTITY
EXPANDED WALLS 6" WIDE		
56533	Top Mending Plate	2
56534	Mid Mending Plate	Dependent on wall height*
56535	Bottom Mending Plate	2
STOCK	#12 x 1/2" Pan Head Wood Screw (PHWS)	Dependent on wall height*
EXPANDED WALLS 7" WIDE		
54819	Top Mending Plate	2
54820	Mid Mending Plate	Dependent on wall height*
54821	Bottom Mending Plate	2
STOCK	#12 x 1/2" PHWS	Dependent on wall height*
EXPANDED WALLS BETWEEN 6" TO 12" WIDE- PARAMETRIC		
56750	Top Mending Plate	2
56752	Mid Mending Plate	Dependent on wall height*
56751	Bottom Mending Plate	2
STOCK	#12 x 1/2" PHWS	Dependent on wall height*
FRAME CONNECTORS		
16869	2" Ziggy Link	Dependent on wall height**

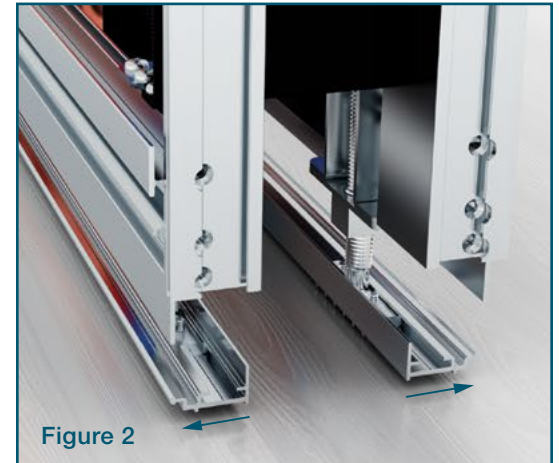
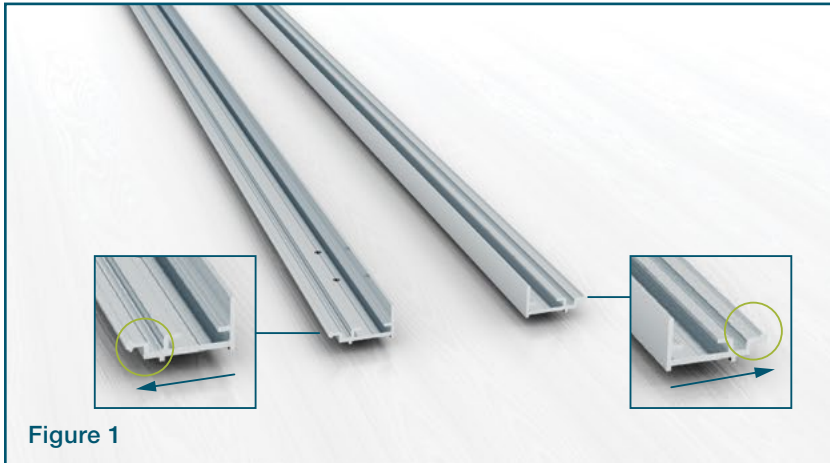
***NOTE:** All frame widths that are not exactly 6" or 7" will receive the parametric mending plate options. The quantity of Mid Mending Plates (56752) for parametric wall widths will differ depending on the wall height. See table below.

WALL HEIGHT RANGE (Feet)	BOTTOM MENDING PLATE (54821)	MID MENDING PLATE (54820)	TOP MENDING PLATE (54819)	TOTAL # OF MENDING PLATES PER BACK-TO-BACK TAOS VERTICAL	TOTAL MENDING PLATES PER FRAME
≤ 6'-0"	1	2	1	4	8
6'-0" < x ≤ 8'-0"	1	3	1	5	10
8'-0" < x ≤ 9'-0"	1	4	1	6	12
9'-0" < x ≤ 10'-0"	1	5	1	7	14
10'-0" < x ≤ 11'-0"	1	6	1	8	16
11'-0" < x ≤ 12'-0"	1	7	1	9	18

****NOTE:** Wall height will determine the amount of 2" Ziggy Links (16869) that will be used to connect wall frames together. Standard link spacing approximately 36" max. on center (OC).

PRE-INSTALLATION CHECK

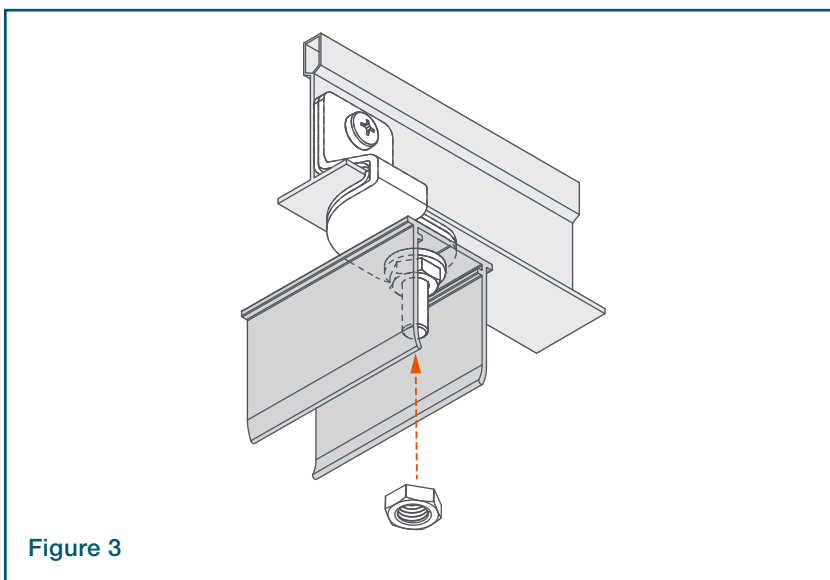
Before installation ensure the base tracks are installed properly at the bottom of a frame with pointed tip facing outwards for each side (see Figures 1 and 2).



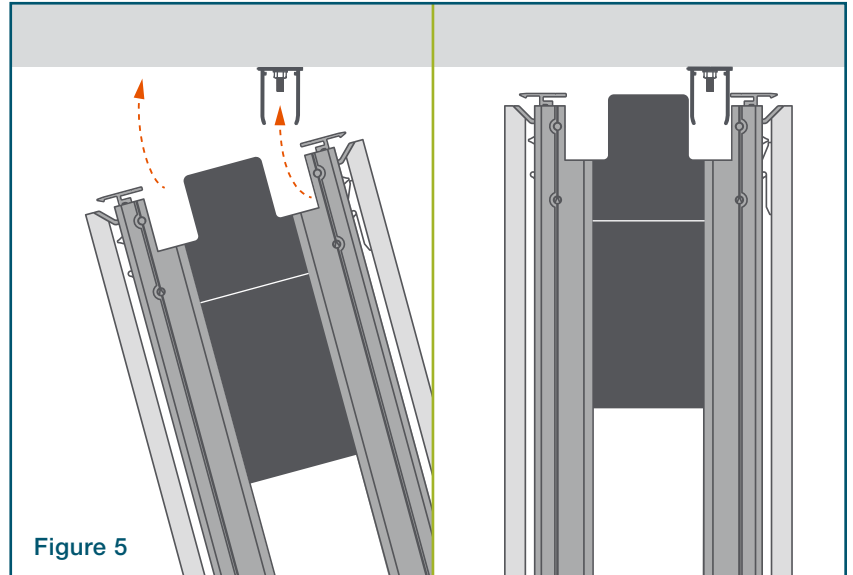
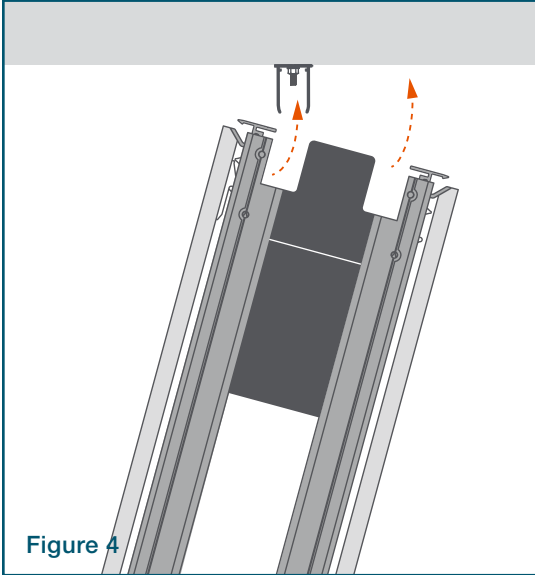
INSTALLATION

Install Expanded Wall Frames

- 01** Locate the frames on install drawing. Mark layout with chalk line. Start at floor and align to grid ceiling.
- 02** Install Ceiling Track (11095) to grid with grid clip or other direct fastener attachment (see Figure 3).
NOTE: Ceiling track is installed 2" off finished face.



03 Stand up frame and engage top of frame into ceiling track on the facing side. (see Figures 4 and 5).



04 Align wall frame at baseline.

NOTE: Carpet grippers are used to connect base to carpet. Two-way tape is used to connect base to smooth floor finishes. Ceiling grid clips, two-way tape and carpet grippers can not be used in seismic design categories C, D, E, or F.

FRAME TO FRAME CONNECTIONS

Expanded Walls use the TAOS 2" Ziggy Link and 2" Link Tool for frame to frame connection. The casting body of the 2" Ziggy Link utilizes the 2" Link Tool by clipping onto the tool for easy installation. Like 4" DIRT Walls, 2" Ziggy Links slide up the channel creating a connection between the frames.

01 Clip Ziggy Link (16869) onto Link Tool (see Figure 6).

02 Line up 2" Ziggy Link and 2" Link Tool with the frame vertical, and slide the links up into the vertical channel (see Figure 7). Locate the 2" Ziggy Links with QTY 1 at the top, QTY 1 or 2 (evenly spaced) in the middle of the frame, and QTY 1 towards the bottom of the frame.

NOTE: Number of links is determined by wall height. Standard link spacing approximately 36" max. on center (OC).



03 Once frames have been linked together, level frames and install zippers.

For further information on the TAOS Wall solution see [TAOS Solution Guide & Install](#).

EXPANDED WALL WITH BASE BUILDING COLUMNS OR PLUMBING

In the case where base building columns or plumbing occurs the Expanded Wall can be built around the obstruction. Plumbing can also be built or added onto once frames have been installed by sliding the pipes through the frame expanded cavity.

01 Disassemble one side of the TAOS frame from the mending plates.

02 Place the frame on each side of the plumbing, base building column or other type of obstruction. Fasten the removed frame back onto the mending plates (see Figures 8 to 13).

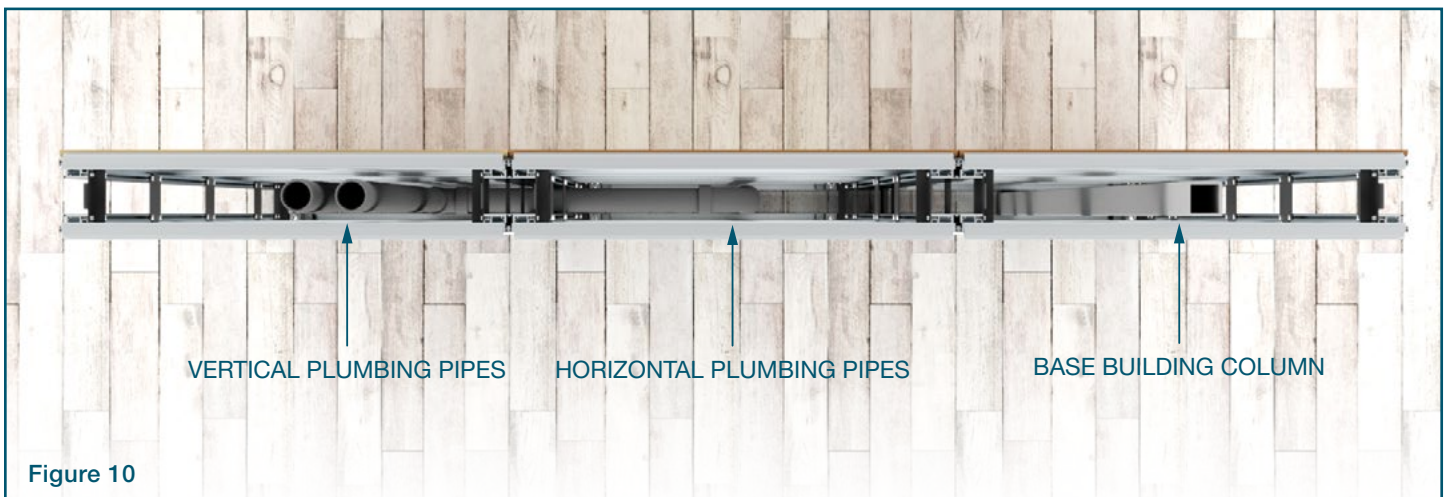
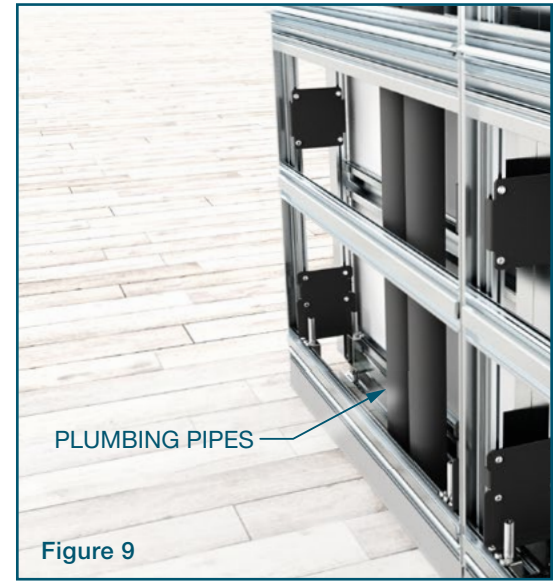




Figure 11



Figure 12



Figure 13