Tournesol

Kitsap Modular Planter Walls

Kitsap is a modular metal planter wall that bolts together to allow virtually unlimited flexibility to sculpt spaces. This system, built in our Port Orchard, Washington plant, can be fabricated in Powder-Coated Aluminum, or Weathering Steel. The customizable solution can fit any application. Connect with a Tournesol Advisor to review your plans.

Weathering Steel or Pre-Weathered Steel

Our Weathering Steel ships with a natural mill scale finish. The initial oxidation develops within weeks and evolves over time. Pre-Weathered Steel products undergo an earth-friendly pre-treatment, which steps up the oxidation process timeline to help achieve the desired result faster.

Kitsap Modular Planter Walls

START FROM THE KIT-OF-PARTS

Tournesol has created a kit-of-parts to simplify designing with Kitsap. These parts are simplistic by design and allow you to modify their length, height, and other features quickly. To download the kit-of-parts log in to tournesol.com/resources/cadmodels and use the drop-down menus to select Pots & Planters and Kitsap. Check the box next to your preferred file format and download the 'Kitsap Kit-of-Parts.'

START FROM PLANS

You can use plans and drawings of any kind to start your project, and a Tournesol Advisor will connect with you to discuss details.

MAKE MODIFICATIONS

Use the kit-of-parts in your plan and modify them to suit your project or draw walls as desired. Provide an elevation drawing as necessary. If your project doesn't fit the design parameters and base requirements below, a Tournesol Advisor is available to review your plans.

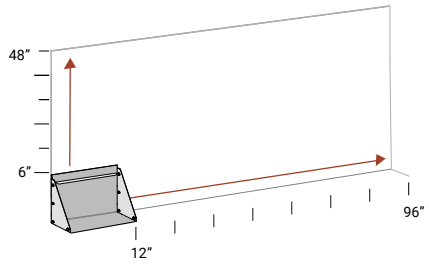
NEXT STEPS

Contact a Tournesol Advisor or submit a Quote Request on our website and upload your plans. We can help select base style and edge detail and get working on your quote.

DESIGN PARAMETERS

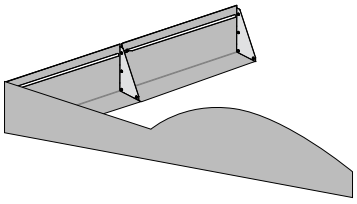
Dimensions

Unit height 6"- 48". Runs of any length, units can vary from 12"L to 96"L.



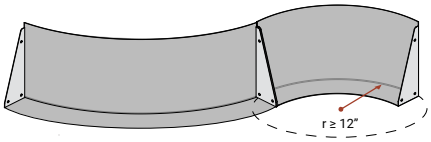
Elevation

Wall heights can change in elevation from 6"- 48".



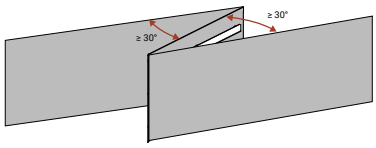
Curves

Specify any arc with a radius ≥ 12".



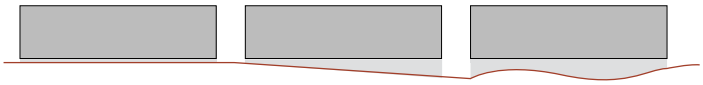
Corners

Specify an inside or outside corner ≥ 30°.



BASE REQUIREMENTS

When planning for modular planter walls, installation surface is an important consideration. Kitsap must be installed on a flat and level surface.



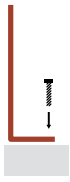
There are two base styles; Anchored and Freestanding. Our advisors can help you select the right base for your project, but in most cases the following holds true:

If you are mounting a cantilever bench, you must select Anchored base.

If you select the Anchored base, you must anchor Kitsap directly to a level concrete slab or curb.

If you level your base with foam, you can use the Freestanding base. Installation still requires screws to prevent slippage.

BASE STYLES



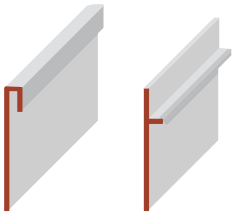
Anchored

Concrete curb
Anchored in place
Must-have for bench

Freestanding

Foam or concrete slab
Wider foot
Cannot support bench

EDGE OPTIONS



Lip **No Lip**

WE'RE HERE TO HELP

Tournesol's Advisors are here to help you at any point in your project, from planning and quoting to assembly and installation.

tournesol.com/advisors

REQUEST A QUOTE

When you are ready to get pricing, submit your plans and project information at tournesol.com/request-quote.

Kitsap Materials

POWDER-COATED ALUMINUM

Our Aluminum Kitsap Modular Planter Walls resist corrosion, do not rust, and are easy to maintain. Kitsap is fabricated from 1/8" thickness of ASTM B209 5052-H32 marine-grade aluminum alloy, using precision engineering, welded stiffeners and FEA (Finite Element Analysis). With a single material thickness, we are able to ensure lightweight products and consistent edge detail at any scale.

Tournesol's Aluminum Kitsap Modular Planter Walls match Kitsap Steel's performance but weigh only 40-60% of steel, easing delivery, installation, and meeting on-structure load constraints.

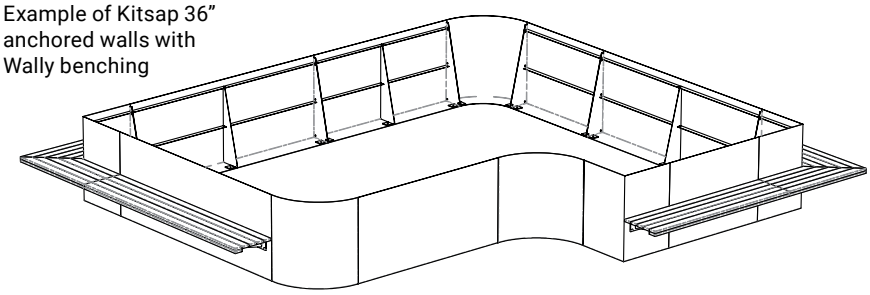
Our production process involves precise laser-cutting and welding for clean edges and watertightness. Then products are dry steam washed and pretreated with a closed loop environmentally friendly zirconium solution before a zinc-free epoxy primer and AAMA 2604 polyester powder-coat is applied. Aluminum Kitsap Modular Planter Walls are 100% Recyclable.

WEATHERING STEEL

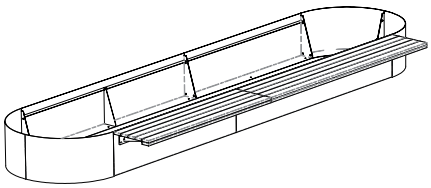
Kitsap Weathering Steel planter walls begin as steel sheets; the 12 gauge walls are precision cut to specified dimensions on a laser cutter. From there, the pieces move to the Press Brake machine for forming; flat and formed parts are meticulously assembled and precisely welded. Our Weathering Steel ships with a natural mill scale finish. The initial oxidation develops within weeks and evolves over time. Environmental conditions such as humidity, salt, and the temperature at installation can affect rust uniformity and formation rate. The color develops from a vibrant orange to a deep reddish-brown.

Pre-Weathered Steel
Our Pre-Weathered Steel products start as Weathering Steel products and undergo an earth-friendly pre-treatment, which steps up the oxidation process timeline to help achieve the desired visual result faster. Our process begins by grit-blasting the raw mill scale surface; next we treat it with an all-natural solution of hydrogen peroxide, vinegar, and salt. Treated products cure for a day before being individually wrapped in paper and then plastic before shipping.

Example of Kitsap 36" anchored walls with Wally benching



Example of Kitsap 18" anchored walls with Wally benching



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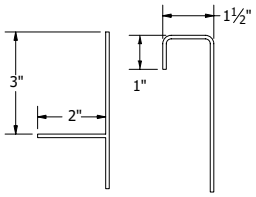
Kitsap Budgetary Pricing

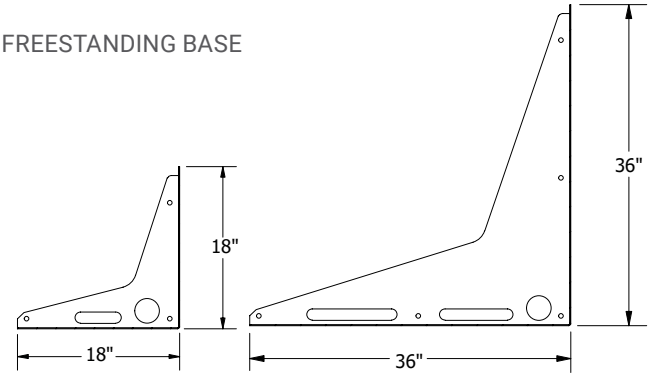
The versatility of the Kitsap system makes nearly every planter wall project possible. It also makes it very difficult to include in a price list! We no longer price planter wall elements by the piece. Instead, we assess the layout, including the length, wall height, material, and configuration required to develop a price specifically for the project. As a means of estimating the budget cost or to determine feasibility of an installation, we are pleased to provide approximate linear foot and unit costs for a variety of configurations.



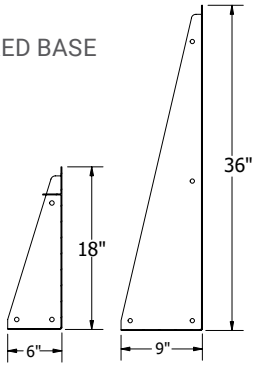
No top lip | Standard return lip

*Weathering Steel prices shown are the base price.
Pre-Weathered Steel - add 10%

FREESTANDING BASE



ANCHORED BASE



Pricing is approximate and depends on the details of the application. Contact an Advisor to discuss the project.		WEATHERING STEEL*		POWDER-COATED ALUMINUM	
		Anchored	Freestanding	Anchored	Freestanding
STRAIGHT WALLS Price: per linear inch	6" - 12"H	4.20	5.50	6.10	8.10
	13" - 18"H	5.00	7.50	8.10	11.00
	19" - 30"H	8.10	12.80	12.20	18.80
	31" - 42"H	11.50	17.20	17.50	27.70
	43" - 48"H	15.10	23.10	23.60	34.90
CURVED WALLS Price: per linear inch	6" - 12"H	6.60	9.70	9.00	12.80
	13" - 18"H	7.30	11.00	10.10	15.80
	19" - 30"H	10.40	17.00	14.70	22.90
	31" - 42"H	24.20	34.80	36.50	51.50
	43" - 48"H	28.60	40.80	41.00	56.10
90° CORNERS Approximate cost per 24" L corner	6" - 12"H	371.00	403.00	535.00	589.00
	13" - 18"H	414.00	450.00	589.00	647.00
	19" - 30"H	574.00	627.00	792.00	871.00
	31" - 42"H	735.00	803.00	1027.00	1130.00
	43" - 48"H	863.00	945.00	1156.00	1271.00

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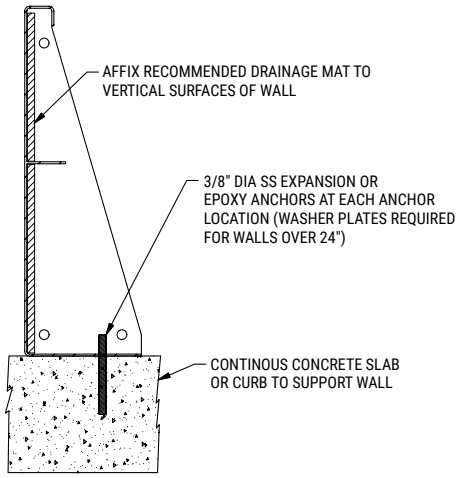
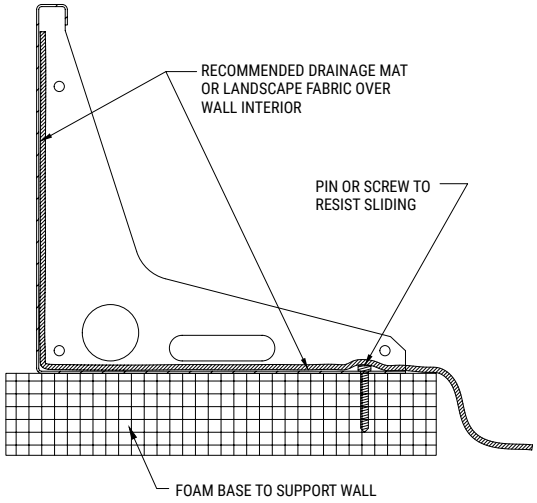
Kitsap Technical Details

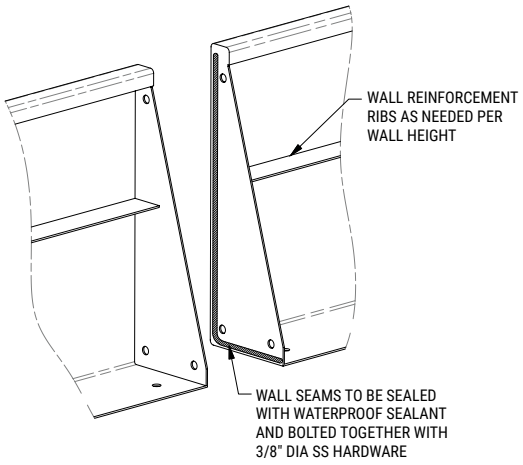
ANCHORED BASE DETAIL



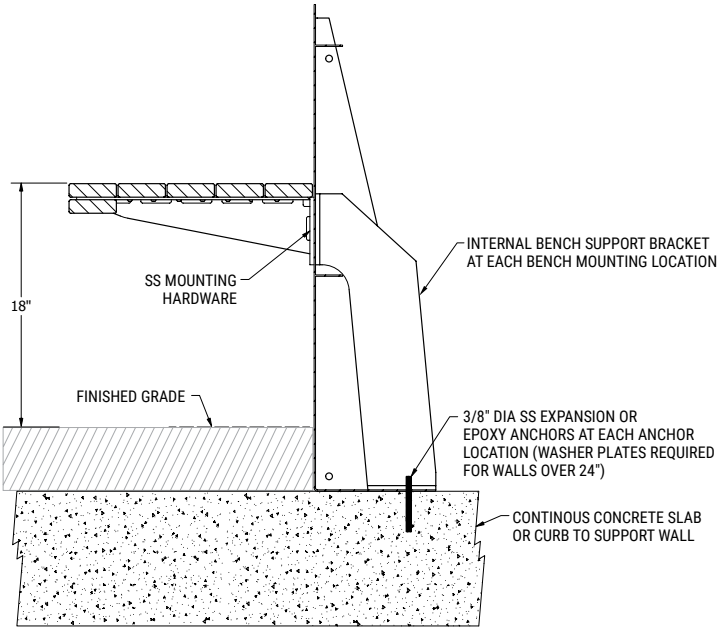
FREESTANDING BASE DETAIL



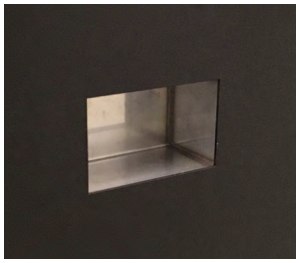
SEGMENT ATTACHMENT DETAILS



CANTILEVERED MOUNTING



OPTIONAL ACCESSORY POCKETS



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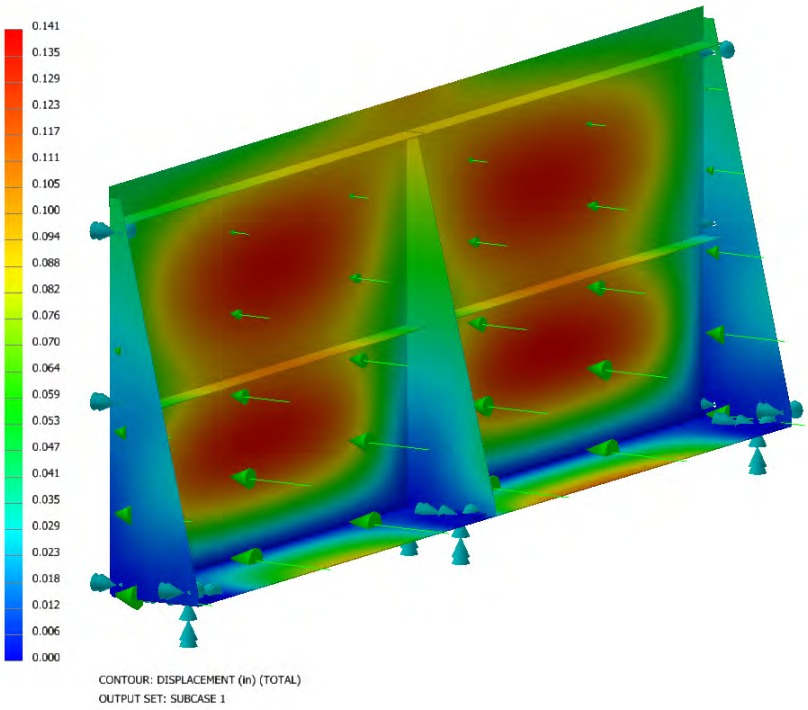
Kitsap Finite Element Analysis (FEA) Results

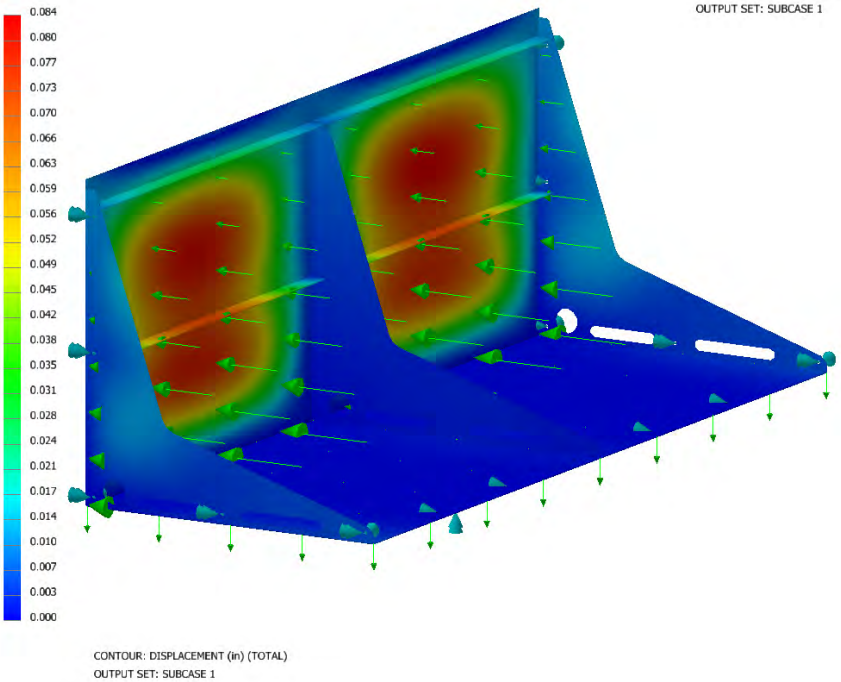
Kitsap modular planter walls are run through a finite element analysis (FEA) to determine the degree of wall flex for typical field applications. Each analysis is done by stressing the walls with a simulated live-load hydrostatic force (filling the unit with water). Each wall moves less than ¼" over the length of the wall, whether in anchored or freestanding configurations. These tests are available for each individual unit, although they have also been analyzed in typical larger-system integrations.

Kitsap Sample Testing
96"L x 36"H
Anchored Base
Edge with no lip

Constraints
The model is fixed via a typical mounting scenario. The base rests on a solid structure (curb or slab) and is anchored at each mounting point provided. A simulated bolted connection is used where the model joins the next section.

Results
Maximum deformation of this wall was simulated to be 0.140".





Kitsap Sample Testing
96"L x 36"H
Freestanding Base
Edge with no lip

Constraints
The model is fixed via a typical mounting scenario. The base rests, fully supported, on a solid structure (structural foam or concrete) and is pinned at each hole in base to resist sliding. A simulated bolted connection is used where the model joins the next section.

Results
Maximum deformation of this wall was simulated to be 0.084".

Testing based on fabrication using weathering steel. Kitsap Aluminum FEA available upon request. FEA results approximate performance which could be expected from the finished product; actual performance may vary.