

Guide Specification
Section 129300 Site Furnishings
Section 129200 Interior Planters

Tournesol Siteworks Kitsap Steel Retaining Walls

1.0 GENERAL

1.1 WORK INCLUDED

- A. Provision of steel retaining walls

1.2 RELATED WORK

- A. Section 033000 Cast-in-Place concrete
- B. Section 061000 Rough Carpentry
- C. Section 062000 Finish Carpentry

1.3 SUBMITTALS

- A. Product Data: Product Data: Manufacturer's standard detail sheets and product drawings
- B. Samples: As required for color selection or material thickness only.
- C. Shop Drawings: Manufacturer to provide layout in plan, showing individual elements and anchor locations, as well as a tabulated list of product codes, quantities, and specific finishing details as needed. For custom applications, layout showing critical sizes and dimensions for installation and integration with other work.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Unwrap and inspect walls after delivery for signs of damage during transit.
- B. Protect walls from damage during storage and handling.
- C. Store walls indoors if possible. Do not stand or walk on walls.

1.5 PROJECT CONDITIONS

- A. Contractor to provide adequate structural support for retaining walls. Unless otherwise specified, retaining walls should have continuous basal support and should be anchored down at all provided mounting points.
- B. Protect units from damage by adjacent work.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. Kitsap Steel Retaining Walls, manufactured by Tournesol Siteworks LLC. 2930 Faber St., Union City, CA 94587 Tel: (800) 542-2282 FAX (510) 471-6243

2.2 KITSAP STEEL RETAINING WALLS

- A. Materials –
 - 1. Weathering Steel Retaining Walls – ASTM A606 12 ga. (0.105”) sheet, formed and welded. ASTM A588 3/16” (0.1875”) may be substituted for custom projects where required. Wall reinforcement elements of same material attached as required.

2. Powdercoated Steel Retaining Walls – Body ASTM A1011 hot rolled commercial carbon steel sheet, formed and welded. Wall reinforcement elements of same material attached as required.

B. Construction –

1. Anchored retaining walls to be formed and fully welded at vertical and horizontal seams. Top lips, where applicable, are to be press broke or fully seam welded. Lips on powdercoated carbon steel planters ground smooth. Curved retaining walls to have fully welded base.
2. Freestanding retaining walls to be fully welded at vertical seams. Top lips, where applicable, are to be press broke or fully seam welded. Lips on powdercoated carbon steel planters ground smooth. Bases to be stitch welded at horizontal seams.

C. Performance characteristics –

As confirmed by Finite Element Analysis (FEA), vertical walls will not deform more than ¼” over the entire length of each wall section when loaded with 90 lbs/cu ft. level backfill soil media to within 2” of top of wall. Manufacturer to provide copies of FEA results confirming this performance upon request. Similar performance with heavier soil media is available by specification.

D. Finish: specified finish; factory finished.

1. Weathering Steel - unless otherwise specified, weathering steel planters finished to mill specification
2. Carbon steel –
 - a.: Following fabrication retaining wall shall be cleaned and treated with an iron phosphate process prior to the coating application. This process shall include a non-chromated alkaline cleaner, and an iron phosphate treatment, followed with an acidic sealer for maximum adhesion. Corrosion-resistant zinc undercoat shall be applied, 1-2mils thick. Protective powder coat shall be polyester or polyester TGIC powder, minimum 4 mils thick. Following application parts shall be baked until properly cured.
 - b. Optional Tier-2 Finishes (Silvadillo, Jaguar Topaz): An additional clear overcoat of 1-2 mils

E. Sizes: Modular units fabricated to size by manufacturer as required to fill specified areas. Refer to catalog for standard sizes. Custom sizes as per approved shop drawings.

2.3 RETAINING WALL OPTIONS

- A. Formed top lips can be specified on any retaining wall size (part number KP-L). Top lip will be formed on all straight walls, including straight sections of angled walls. Top lip will be welded on curved retaining walls.
- B. Straight top lips can be specified on any retaining wall size (part number KP-S). Straight lip is simply the material edge.

3.0 EXECUTION

3.1 PREPARATION

- A. Prior to planter fabrication, the contractor shall verify as-built dimensions of planter area or receptacles to ensure proper size, fit and quantity required.¹

3.2 INSTALLATION

A. Mounting

1. Anchored retaining wall must be structurally attached to a slab or curb through holes in the base of the wall. Footing recommendations can be found on the footing addendum of the Tournesol Kitsap Installation Instructions document. Quantity of wall anchors varies per wall height and length. Use 3/8" dia noncorrosive anchors at each mounting hole provided to anchor manufacturers specification. See technical drawings for details.
 2. Freestanding Kitsap walls must be fully supported along the base flange by a solid surface (structural foam or similar) with anti-slip screws installed. Wall bases must be fully covered with soil to ensure counterweight amounts are met. See Tournesol Kitsap Installation Instructions for details.
- B. Provide continuous basal support.
- C. Install level to permit adequate drainage and irrigation.
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