

DIVISION 10
SPECIALTIES



SECTION 10265

BAFFLES AND SUPPORTS

PART 1 - GENERAL

1.1 Scope

- A. This specification shall govern all work necessary to furnish and install a stainless steel baffle system as indicated on the drawings. The work to be done under this specification includes all labor, equipment and materials for the construction and installation of the stainless steel baffle walls. Products that are not Stainless Steel are not acceptable. System shall be comprised of planks or panels.

1.2 Submittals

- A. The contractor shall provide a complete submittal documentation package including material specifications, product data, and shop drawings, structural calculations bearing the seal of a Professional Engineer, installation instructions and installation drawings: Section 01340.
- B. Operation and Maintenance Manuals: Section 01340

1.3 Storage and Protection

- A. Equipment and accessories shall be stored and protected in accordance with the manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 Products

A. General

1. Under this section of the specification, the contractor shall provide and install baffles as shown in the contract drawings and as specified herein.
2. The baffle system shall comprise structural support members including columns and beams, all necessary fasteners and appurtenances, and the baffle planks or panels themselves. All of the structures, baffle panels, and fasteners shall be manufactured of type 304/316 stainless steel.
3. All components of the baffle system shall be designed and fabricated by a single manufacturer to insure a uniform and nicely finished appearance as well as component compatibility and overall structural integrity.
4. The baffle panels shall have the dimensions indicated on the Contract Drawings. The panels shall be square and accurately

sized to minimize gaps between the frame member and the panel.

2.2 Materials

A. General

1. The baffle system shall be certified by NSF under ANSI/NSF Standard 61.
2. The baffle manufacturer shall provide proof of NSF certification.

B. Baffle Planks

1. The baffle planks shall be formed of type 304 stainless steel sheets, having a thickness to be determined by the manufacture depending on plank width.
2. Each plank shall be manufactured with an edge thickness of not less than 2 inches.
3. Structural calculations shall be provided.
4. The stainless steel shall have the following properties:

Tensile strength (psi)	80,000
Yield strength (psi)	35,000
Modulus of elasticity lb/in ² x 10 ⁶	29
Hardness (min)	160
5. The bottom plank shall be hinged at the top to allow the plank to "rotate" forward and back to equalize the head on either side of the baffle during filling and draining and can be "propped" open for cleaning of the basin.

C. Baffle Panels

1. All of the structures, baffle panels, and fasteners shall be manufactured of type 316 stainless steel.
2. The entire clearwell baffle system shall be designed to withstand a distributed live load of 10 pounds per square foot acting over the entire surface of each baffle panel.
3. Panels shall be woven of type 316 stainless steel strips

Width (inches)	3
Combined thickness (mils)	14
Peripheral edges/combined thickness (mils)	28
Thickness tolerance (inches)	+/- 0.0005

Tensile Strength (psi)	150,000
Elastic modulus (psi)	30×10^6
Coeff. of thermal expansion (inches per inch per °F)	0.5×10^{-5}

Strips shall have a polished surface to minimize corrosive attack.

C. Supports

1. The baffle supports shall consist of T-304/316 stainless steel columns to which are attached channel shaped members which are manufactured to exactly fit the baffle panels and hold them securely without excess movement during operation.
2. The support columns shall be designed to support the baffle design load.

D. Design Properties:

1. The baffle wall(s) shall be manufactured so as to withstand a loading recommended by manufacturer.

E. Manufacturers:

1. Meurer Research, Inc.
2. EIMCO Water Technologies
3. Jim Myers & Sons.
4. Or approved equal.

PART 3 - EXECUTION

3.1 Installation

- A. Care should be taken during storage and installation of the baffles to protect them from environmental extremes, and from highly concentrated loads.
- B. All equipment shall be installed in accordance with approved shop drawings, manufacturer's instructions, and local codes.
- C. The method of installation shall be outlined by the baffle manufacturer.
- D. The Contractor shall make any and all necessary changes, modifications, and/or adjustments required to assure satisfactory operation.

3.2

On-Site Supervision

- A. The equipment manufacturer shall have available the services of a qualified factory service technician to verify proper installation prior to initial operation and testing.

END OF SECTION