

Nutrient Separating Baffle Boxes - Designer Information

January 1, 2009

Price and Company [Price] offers the following information to assist designers in preparing Plans & Specifications for projects which include the use of **Nutrient Separating Baffle Boxes [NSBBs]**.

Communication Overview & Scheduling Considerations

Each NSBB is designed for a single location on a specific project, i.e., custom designed and fabricated. To ensure delivery of a unit that provides the anticipated performance and fits the site geometry, several steps of communication are needed:

Design Stage

1. *Price* requests receipt of a completed Design Worksheet [DW]. This form is available on our [website](#) or by calling our [Regional Representative](#).
2. From the information provided on the DW, Suntree Technologies prepares shop drawings and associated specifications, both in DWG and PDS format. This process typically takes 3-5 working days after receipt of the DW.
3. The choice of access ways, via hatches, rings/covers or frames/grates, is an integral part of the design. One access way is located above each sediment chamber, i.e., two for smaller NSBBs [model 4-8 or smaller] and three for larger NSBBs [model 5-10 or larger]. The access ways serve two purposes. First, they enable access to remove the collected contaminants. Secondly, they provide a means to repair or replace parts [all internal components are designed to fit through the selected access way]. For both reasons, larger openings are better. As a minimum, we suggest using EJIW 1610-6 [or equivalent] rings/covers for 5-10 and larger NSBB models or EJIW 1045 [or equivalent] for 3-6 & 4-8 models.

Post-Award Stage

3. The Contractor submits the final [in the event that changes have been made after bidding] Shop Drawings to the Project Engineer for written approval.
4. Following approval, the Contractor will prepare a purchase order and submit both the approved Shop Drawings and purchase order to *Price*.

NSBB Fabrication and Delivery Stage

5. Typically, this process is completed in 4-6 weeks.

Note: Blue text denotes live links.

Installation Considerations

NSBBs are delivered with the screen system, turbulence deflectors & flow divider assembled into the lower concrete box. No adjustments to the screen system, deflectors or flow divider are needed during installation. Each NSBB will also include a top section of concrete which includes openings for access into the NSBB from the top. For deeper installations, one or more mid-sections of concrete may be required. All concrete sections, i.e., lower box, any mid-sections and the top, are fabricated using ship lap joints and sealed using two strips of butyl rubber per joint.



The Skimmer and Storm Boom system requires minor assembly after the lower box and lid [or first concrete mid section] are installed. This work is typically completed by *Price* personnel or with the direction of *Price* personnel during the installation process. This minor assembly must occur during initial box setting operations. Therefore, *Price* personnel must be on-site during each NSBB installation.

If questions arise relevant to the information contained herein, or during completion of the Design Worksheet, please contact [John Price](#).

A contractor information piece, similar to this page, is available by contacting either [John Price](#) or our [Regional Representative](#).

