

## A 2.- Bio ST-HD Seats & Backs



Bio ST-HD seats and backs have been designed with the highest level of functionality in mind while addressing the maximum need for durability. Every seat and back is constructed by fabricating a medium density foam module (1½” of Sunmate and Confor for Custom Solid backs and 2” of Sunmate and Confor for Custom Solid seats) which gets secured to a ¼” High Density Polyethylene (HDPE) base. This module is then secured to a ½” plate of HDPE for added strength. Wheelchair mounting options for the Bio ST-HD seats and backs (all made from steel) are mounted from the ½” HDPE plate. The HDPE “skeleton” used provides significantly greater strength than plywood and will also retard warping or rotting when subjected to moisture. Screws and bolts will not come loose from HDPE as they can when plywood is used as the “skeleton” of a seat or back. The combination of the foam module with the ¼” HDPE base and the ½” HDPE plate provide for the greatest durability and strength.

All hardware used (nuts, bolts, washers and screws) are stainless steel that we treat with a black ox finish. This assures the greatest strength and rust prevention while blending into the seat and back for improved aesthetics.

All surfaces and edges which may come in contact with the client are padded to prevent pressure areas (I.E.-front, top, sides and bottom for seats and backs).

Our sewing operation produces the highest quality covers to offer an appealing looking finish while placing all seams in non client contact areas. Zippered closures standard on all seats and backs.

All positioning accessories (Lateral Thoracic Supports, Lateral Hip/Thigh Supports, Lateral Knee supports, etc.) are mounted to the seat or back utilizing t-nuts and/or slots to the HDPE plate. This allows for easy and quick adjustment.

*See the seat and back modifications sections for customization options.*

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**A 2.1.- Bio ST-HD Seats**

Model	Description
 <p data-bbox="266 583 365 611"><b>HS01-NB</b></p>	<p data-bbox="524 380 1487 543">Custom Solid Seat Insert, 15” to 20” in width and depth. A foam module is attached to an interface plate which is secured to the wheelchair. The foam module consists of a Medium Foam Package (1” Soft Sunmate on 1” Medium Sunmate), a 1/4” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of 1/2” HDPE and secured by height and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing).</p>
 <p data-bbox="266 884 365 911"><b>HS02-NB</b></p>	<p data-bbox="524 667 1487 858">Custom Solid Seat Insert, contoured with Abduction and Adduction influence, 15” to 20” in width and depth. A foam module is attached to an interface plate which is secured to the wheelchair. The contour foam module consists of a Medium Foam Package (1” Soft Sunmate on 1” Medium Sunmate), a 1/4” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of 1/2” HDPE and secured by height and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing).</p>
 <p data-bbox="266 1184 365 1211"><b>HS04-NB</b></p>	<p data-bbox="524 955 1487 1173">Custom BioWell Solid Seat Insert, foam contoured to offer abduction and adduction while providing an ischial/trochanteric recess in the rear, 15” to 20” in width and depth. A foam module is attached to an interface plate which is secured to the wheelchair. The contour foam module consists of a Medium Foam Package (1” Soft Sunmate on 1” Medium Sunmate), a 1/4” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of 1/2” HDPE and secured by height and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing).</p>

If color other than Black Neoprene is desired, replace the last two letters of the model number (NB) with those from Color Selection section.  
i.e.- HS01-NB becomes HS01-NE when color Eggplant is desired.

If mounting hardware other than the above (including a one piece, hinged, seat and back system) is desired, select a modification from section A 4.1.-

If foam other than the Medium Package above is desired, select an alternative pre-set package from section A 3.2.1.1 or create a custom configuration from section A 3.2.1.2.-

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**A 2.2.- Bio ST-HD Backs**

Model	Description
 <b>HB01-NB</b>	<p>Custom Solid Back Insert, 15” to 20” in width and height. A foam module is attached to an interface plate which is secured to the wheelchair. The foam module consists of a Medium Foam Package (1” Soft Sunmate on ½” Medium Sunmate), a ¼” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of ½” HDPE and secured by depth and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing).</p>
 <b>HB02-NB</b>	<p>Custom Solid Mild Contour Back Insert, 15” to 20” in width and height. A foam module is attached to an interface plate which is secured to the wheelchair. The mild contour foam module consists of a Medium Foam Package (1” Soft Sunmate on ½” Medium Sunmate), a ¼” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of ½” HDPE and secured by depth and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing). (Contour represents a 1 ½” difference in foam from lateral edges of back to the center of back).</p>
 <b>HB03-NB</b>	<p>Custom Solid Deep Contour Back Insert, 15” to 20” in width and height. A foam module is attached to an interface plate which is secured to the wheelchair. The deep contour foam module consists of a Medium Foam Package (1” Soft Sunmate on ½” Medium Sunmate), a ¼” of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of ½” HDPE and secured by depth and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1” tubing). (Contour represents a 2” difference in foam from lateral edges of back to the center of back)</p>

If color other than Black Neoprene is desired, replace the last two letters of the model number (NB) with those from Color Selection section. i.e.- HB01-NB becomes HB01-NE when color Eggplant is desired.

If mounting hardware other than the above (including a one piece, hinged, seat and back system) is desired, select a modification from section A 4.1.-

If foam other than the Medium Package above is desired, select an alternative pre-set package from section A 3.2.1.1 or create a custom configuration from section A 3.2.1.2.-

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### A 2.3.- Pediatric Bio ST-HD Seats

Model	Description
 <p data-bbox="272 590 375 615"><b>HS09-NB</b></p>	<p data-bbox="532 369 1481 531">Custom Solid Seat Insert, up to 14" in width and depth. A foam module is attached to an interface plate which is secured to the wheelchair. The foam module consists of a Medium Foam Package (1" Soft Sunmate on 1" Medium Sunmate), a 1/4" of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of 1/2" HDPE and secured by height and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1" tubing).</p>

If color other than Black Neoprene is desired, replace the last two letters of the model number (NB) with those from Color Selection section.  
i.e.- HS09-NB becomes HS09-NE when color Eggplant is desired.

If mounting hardware other than the above (including a one piece, hinged, seat and back system) is desired, select a modification from section A 4.1.-

If foam other than the Medium Package above is desired, select an alternative pre-set package from section A 3.2.1.1 or create a custom configuration from section A 3.2.1.2.-

### A 2.4.- Pediatric Bio ST-HD Backs

Model	Description
 <p data-bbox="248 1528 350 1554"><b>HB09-NB</b></p>	<p data-bbox="464 1255 1451 1417">Custom Solid Back Insert, up to 14" in width and height. A foam module is attached to an interface plate which is secured to the wheelchair. The foam module consists of a Medium Foam Package (1" Soft Sunmate on 1/2" Medium Sunmate), a 1/4" of HDPE (High Density Polyethylene) and a zippered Black Neoprene (Rubatex) cover. The interface plate is made of 1/2" HDPE and secured by depth and angle adjustable steel mounting hardware (standard duty 4ea. L-Brackets w/4 holes, 4ea. J-Hooks w/1 countersunk hole &amp; 4ea. horseshoe clamps for 1" tubing).</p>

If color other than Black Neoprene is desired, replace the last two letters of the model number (NB) with those from Color Selection section.  
i.e.- HB09-NB becomes HB09-NE when color Eggplant is desired.

If mounting hardware other than the above (including a one piece, hinged, seat and back system) is desired, select a modification from section A 4.1.-

If foam other than the Medium Package above is desired, select an alternative pre-set package from section A 3.2.1.1 or create a custom configuration from section A 3.2.1.2.-

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