

MATERIALS BREAKDOWN



FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

STATEMENT OF LINE - SPECIFICATIONS

1014HD	
Seat Height (in)	18
Total Height (in)	33
Seat Width (in)	18.5
Total Width (in)	18.5
Depth (in)	22
Weight Rating (lbs)	500
Product Weight (lbs)	64
Qty (pcs)/Volume (cu ft)	1/15

FRAME CONSTRUCTION

FRAME

Constructed of high carbon content cold rolled seam welded flash controlled steel tube free of crimping on all bends, Offered in 1 1/4" 16GA Tube. A cross brace runs horizontally between the frame to provide extra strength. Seat support is provided by stretcher bars welded to the frame. Tube of frame is filled with steel shots to provide additional weight. All connections are metal to metal.

SEAT CONSTRUCTION

SEAT

Upholstered material is applied to hi-resiliency molded foam. A reinforced fiberglass armature is encapsulated inside the foam. This assembly provides strength and stability for the molded foam. Seat and back covers are zipper locked and removable in the field. The one piece seat and back are bolted to the frame with four 1/4-20 tamperproof fasteners.

FOAM

Molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute and is reinforced with fiberglass. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FEET CONSTRUCTION

GLIDES

Frame feet are finished with non-removable 1 1/8" steel levelers with a 1/4- 20 steel stem.

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

Constructed of high carbon content cold rolled seam welded flash controlled steel tube free of crimping on all bends, Offered in 1 1/2" 16GA Tube. Seat support is provided by a stretcher running between front and back legs. Tube of frame is filled with steel shots to provide additional weight. All connections are metal to metal.

SEAT CONSTRUCTION

SEAT

Upholstery material is applied over hi-resiliency molded foam. A welded inner seat armature is encapsulated inside the foam. The welded inner seat armature is constructed from 11 GA flat steel and 3/4" square 16 GA steel. Elastic webbing straps clipped into the welded inner seat armature frame add suspension. This assembly optimizes comfort, dimensional stability, and compressive and tensile strength. Seat covers are hook and loop and zipper locked and removable in the field. The seat is bolted to the frame with four 1/4-20 tamperproof fasteners.

FOAM

Constructed of high carbon content cold rolled seam welded flash controlled steel tube free of crimping on all bends, Offered in 1 1/2" 16GA Tube. Seat support is provided by a stretcher running between front and back legs. Tube of frame is filled with steel shots to provide additional weight. All connections are metal to metal.

FEET CONSTRUCTION

GLIDES

Frame feet are finished with non-removable 1 1/8" steel levellers with a 1/4- 20 steel stem.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

STATEMENT OF LINE - SPECIFICATIONS

2101CHDS	
Seat Height (in)	18
Total Height (in)	35
Seat Width (in)	22
Total Width (in)	25
Depth (in)	26.5
Weight Rating (lbs)	500
Product Weight (lbs)	67
Qty (pcs)/Volume (cu ft)	1/17

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

Molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

SEAT AND BACK CONSTRUCTION

SEAT

The upholstered seat pan is made with 100% recycled plastic with upholstery covers form fitted and stapled over 3 inch thick hi-resiliency polyurethane molded foam.

BACK

The upholstered back is based on a 3/4 in. thick, 7 ply laminated contoured plywood core platform with upholstery covers form fitted and glued over 4 inch thick hi-resiliency polyurethane molded foam.

FOAM

Molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute and is reinforced with fiberglass. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION

GLIDES

Injection molded plastic glides, secured with CA glue

ARM CONSTRUCTION

ARMS HD

A self-skinned urethane arm are molded over a 1/8 in. thick steel flat plate which is attached to the seat frame using metal-to-metal connections.

STATEMENT OF LINE - SPECIFICATIONS



8101MHD



8101GHD

	8101MHD	8101GHD
Seat Height (in)	18	30
Total Height (in)	33.75	34
Seat Width (in)	21	22
Total Width (in)	25	25
Depth (in)	26	26
Arm Height (in)	25	25
Weight Rating (lbs)	500	500
Product Weight (lbs)	64	74
Qty (pcs)/Volume (cu ft)	1/15	1/20

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

Constructed of high carbon content cold rolled seam welded flash controlled steel tubing free of crimping on all bends. End frames are 1 3/4 in. O.D. 14 Gauge cold rolled steel tube. 1 1/2 in. stretcher bars are welded to the frame to provide seat support. All connections are metal to metal. All welds are ground smooth.

SEAT AND BACK CONSTRUCTION

SEAT AND BACK - TWO PIECE

Upholstery material is applied over hi-resiliency molded foam which uses a registered process to displace 25% of the existing non-renewable petroleum with a sustainable plant based substitute. A welded inner seat armature is encapsulated inside the foam. The welded inner seat armature is constructed from 11 GA flat steel and 3/4" square 16 GA steel. Suspension is supplied by elastic webbing straps clipped into the welded inner seat armature frame. This assembly optimizes comfort, dimensional stability, and compressive and tensile strength. Seat covers zipper pulls are removed and secured in place. The seat is bolted to the chair frame with four 1/4-20 tamperproof fasteners.

BACK

Upholstery material is applied over hi-resiliency molded foam which uses a registered process to displace 25% of the existing non-renewable petroleum with a sustainable plant based substitute. A welded inner back armature is encapsulated inside the foam. The welded inner back armature is constructed from 5/8" round 16 GA steel and 1" square 16 GA steel. The foam is contoured to include a lumbar support. Back covers zipper pulls are removed and secured in place. The inner back armature slides over posts on the welded chair frame, and is fastened with two 1/4-20 bolts.

FOAM

Closed cell molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION

GLIDES

Steel glides are secured with LOCTITE® into welded inserts.

STATEMENT OF LINE - SPECIFICATIONS



4201MHD



4101MHD

Seat Height (in)	18	18
Total Height (in)	32.5	32.5
Seat Width (in)	21	21
Total Width (in)	26	25
Depth (in)	27	27
Arm Height (in)	27	27
Weight Rating (lbs)	500	500
Product Weight (lbs)	67	67
Qty (pcs)/Volume (cu ft)	1/15	1/15



4201HHD



4201GHD

Seat Height (in)	18	18
Total Height (in)	45	32.5
Seat Width (in)	21	30
Total Width (in)	26	35
Depth (in)	27	27
Arm Height (in)	27	27
Weight Rating (lbs)	500	500
Product Weight (lbs)	67	67
Qty (pcs)/Volume (cu ft)	1/15	1/19

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

The frame is constructed from a combination of 1 5/8" 14 gauge steel tube welded to an 11 gauge sheet metal sub frame with 1 1/4" 14 gauge steel tubular sleds. Aluminum extrusions are screwed to the frame in order to hold the side panels in place. A tamperproof seat pan is welded directly to the frame.

SEAT AND BACK CONSTRUCTION

SEAT

All end and connecting wood frames are assembled from maple. The wood frame is mechanically fastened to a welded substructure. The substructure uses a combination of 10 and 11 gauge brake-formed sheet metal parts to create the foundation to which suspension, support components and frame subassemblies are attached to form the completed chair frame.

BACK

The upholstered back is based on a 3/4 in. thick, 7 ply laminated contoured plywood core platform with upholstery covers form fitted and glued over 4 inch thick hi-resiliency polyurethane molded foam.

FOAM

Molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION

GLIDES

Frame feet are finished with non-removable 1" steel levellers with a 5/16-18 threaded steel stem.

ARM CONSTRUCTION

ARMS HD - LAMINATE SIDE PANEL

Laminate side panels are built around a 3/4" NAUF (no added urea formaldehyde) & FSC Certified plywood core with 2 post-form grade (1/32" thick) plastic laminate sheets bonded to either side using a water based adhesive. The panels are held in place by the surrounding custom aluminum extrusion.

ARMS HD - UPHOLSTERED SIDE PANEL

Upholstered 1/2" foam is glued to a 1/2" NAUF (no added urea formaldehyde) & FSC Certified plywood core and held in place by the surrounding custom aluminum extrusion.

STATEMENT OF LINE - SPECIFICATIONS



6101MHD

6101MHD-NA

	6101MHD	6101MHD-NA
Seat Height (in)	18	18
Total Height (in)	33.75	33.75
Seat Width (in)	21	21
Total Width (in)	25.25	25.25
Depth (in)	25	25
Arm Height (in)	25	20
Weight Rating (lbs)	500	500
Product Weight (lbs)	75	70
Qty (pcs)/Volume (cu ft)	1/15	1/15

OPTIONS

Available with wood or black polyurethane arm caps in round or flat profile.

MATERIALS BREAKDOWN**FRAME CONSTRUCTION****FRAME**

Constructed of high carbon content cold rolled seam welded flash controlled steel tubing free of crimping on all bends. Offered in 1 1/4 in. O.D. 14 Gauge tube. Welds at joints are ground smooth to ensure safe use and to provide a uniform transition. Weighted tamperproof plate is welded to the stretcher bars welded to ensure that the seat is not accessible from the underside. All connections are metal to metal. All welds are ground smooth. All hardware for heavy duty chair is tamperproof.

SEAT AND BACK CONSTRUCTION**SEAT**

The upholstered seat pan is made with 100% recycled plastic with upholstery covers form fitted and stapled over 3 inch thick hi-resiliency polyurethane molded foam. Seat covers zipper pulls are removed and secured in place. The seat is bolted to the chair frame with four 1/4-20 tamperproof fasteners.

Bariatric Seat: Upholstery material is applied over hi-resiliency molded foam which uses a registered process to displace 25% of the existing non-renewable petroleum with a sustainable plant based substitute. A welded inner seat armature is encapsulated inside the foam. The welded inner seat armature is constructed from 11 GA lat steel and 3/4" square 16 GA steel. Elastic webbing straps clipped into the welded inner seat armature frame add suspension. This assembly optimizes comfort, dimensional stability and compressive and tensile strength. Seat covers zipper pulls are removed and secured in place. The seat is bolted to the chair frame with four 1/4-20 fasteners.

BACK - MIDBACK

The back has a custom woven stretch fabric selected for strength and comfort which is pulled over the steel back frame and closed at the bottom with hook and loop. The upholstered cover is pulled over the inner mesh back, and closed at the bottom with hook and loop. The upholstered cover has a layer of slab foam quilted into the back, which provides cushioning, as well as a 1" piece of slab foam inserted between the mesh to provide push strength to the outside fabric cover to stop wrinkling. All slab foam utilized, uses a registered process to displace 25% of the existing non-renewable petroleum with a sustainable plant based substitute. Back covers zipper pulls are removed and secured in place.

FOAM

Molded foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute. The foam performs as regular based cut foam and provides a 3.0 to 3.2 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

ARM CONSTRUCTION**GLIDES**

An optional molded self-skinned urethane arm is finger grip shape and is molded over a 1/8 in. thick steel flat plate which is attached using mechanical fasteners in an metal-to-metal connection.

FEET CONSTRUCTION**GLIDES**

Steel glides are secured with LOCTITE® into welded inserts.

OPTIONS

Available as connected seating. Arms are available in black, gray and taupe polyurethane or wood options. Please refer to the price list.

STATEMENT OF LINE - SPECIFICATIONS



3201UHD



3201HHD



3201GHD

Seat Height (in)	18	18	18
Total Height (in)	36	46	36
Seat Width (in)	20.5	20.5	30
Total Width (in)	23.75	23.75	32.75
Depth (in)	26	26	26
Arm Height (in)	26	26	26
Weight Rating (lbs)	500	500	500
Product Weight (lbs)	48	50	56
Qty (pcs)/Volume (cu ft)	1/17	1/17	1/17



SNOWBALL 2 HD Specification Sheet

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

Constructed of high carbon content cold rolled seam welded flash controlled steel tubing free of crimping on all bends. Welded between the front and back legs are horizontal cross braces, as well as a center brace to form the shape of an H to provide additional support. Offered in 7/8" O.D. 14 Gauge tube. Stretcher bars are welded to the frame to provide seat support. All connections are metal to metal.

SEAT AND BACK CONSTRUCTION

SEAT

The upholstered seat foundation is made with 100% recycled plastic with upholstery covers form fitted and stapled over 1 inch thick hi-resiliency polyurethane slab cut foam. The 100% recycled plastic platform covers the staples, is fastened to the chair using tamperproof screws, making the seat easy to clean.

BACK

The upholstered back foundation is based on a 3/8 in. thick, 6 ply laminated contoured plywood core platform with upholstery covers form fitted and zippered closed over 1 inch thick hi-resiliency polyurethane slab cut foam. The pull on the zipper is removed after assembly is completed

FOAM

Open cell cut foam is formulated displacing 25% of the existing non-renewable petroleum material with a sustainable plant based substitute. The foam performs as regular based cut foam and provides a 1.8 PCF density with no changes to the physical properties, comfort, and longevity of the foam.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION

GLIDES

LOCTITE® steel levelers

ARM CONSTRUCTION

ARMS HD

Constructed of high carbon content cold rolled seam welded flash controlled steel tubing free of crimping on all bends. Offered in 7/8" O.D. 14 Gauge tube. Arms are welded to the frame.

STATEMENT OF LINE - SPECIFICATIONS



1881HD



1891HD

	1881HD	1891HD
Seat Height (in)	18	18
Total Height (in)	33	33
Seat Width (in)	18.5	18.5
Total Width (in)	20.25	20.25
Depth (in)	23.5	21.5
Arm Height (in)	26	
Weight Rating (lbs)	500	500
Product Weight (lbs)	45	44
Qty (pcs)/Volume (cu ft)	1/11	1/11

OPTIONS

Available as connected seating and with DuraSpec seat.

MATERIALS BREAKDOWN**FRAME CONSTRUCTION****FRAME**

The frames are made from fully welded 14 gauge steel, with steel support stretchers. The build does not allow for connected configurations.

SEAT AND BACK CONSTRUCTION**SEAT**

A 0.75" thick plywood structure with elastic webbing across the center adds suspension to the part of the seat most commonly interacted with, topped with high-resiliency molded foam (see Foam). Seat upholstery is stapled into place along a disciplined edge, and covered with a steel plate. Seats can be easily removed or replaced as needed by way of four tamper proof bolts (per seat) underneath the frame.

BACK

CNC cut plywood panels create a structural box for the back, which is covered by high-resiliency molded foam (see Foam) to create comfortable upper back and lumbar support. Upholstery is pulled over a disciplined edge at the bottom of the back. The structural box for the back has metal plates attached to it so that the connection between back and frame is metal-to-metal, ensuring longevity and stability of the product. The back can be easily detached from the frame as needed by way of four tamper proof bolts.

FOAM

Foam is formulated to displace 25% of the existing non-renewable petroleum material with a sustainable plant based substitute without changing the physical properties, comfort, and longevity of the foam. The molded foam performs as regular based cut foam and provides a density of 4.2 PCF while the slab cut foam provides a density of 1.8 PCF.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION**ROTO-MOLDED FOOT**

One piece rotationally molded highly durable Polyethylene (LDPE) with ultraviolet light stabilizers. Provides a tamper proof, water proof, durable base for the chair, with non-removable inserts for optional glides.

ARM CONSTRUCTION**ARMS HD**

Arms are constructed of plywood with spacer blocks made from polyamide (PA 6 GF30). The blocks also provide attachment points for the optional arm cap hardware, ensuring consistent positioning and ease of arm cap installation/replacement. The arms are covered in hi-resiliency polyurethane slab cut foam followed by the upholstery which is pulled tightly to the curved profile. The arm panels bolt both to the seat and the frame for added strength.

OPTIONS

Polyurethane arm caps and roto-molded bottom inserts are available.



TAILOR HD ROTO Specification Sheet

STATEMENT OF LINE - SPECIFICATIONS



9101MHD



9101GHD



9102MHD



9103MHD

Seat Height (in)	18	18	18	18
Total Height (in)	33	33	33	33
Seat Width (in)	23	30	23	23
Total Width (in)	29.5	36.5	52.5	75.5
Depth (in)	30	30	30	30
Arm Height (in)	24.5	24.5	24.5	24.5
Weight Rating (lbs)	750	750	450	675
Product Weight (lbs)	119	133	175	231
Qty (pcs)/Volume (cu ft)	1/24	1/32	1/43	1/62



TAILOR HD SLED Specification Sheet

MATERIALS BREAKDOWN



FRAME CONSTRUCTION

FRAME

The frames are made from 1" square steel tube welded to laser cut steel channels.

SEAT AND BACK CONSTRUCTION

SEAT

Seat is made from 100 % Post Industrial Plastic (polyolefin based). An elastic webbing across the center adds suspension across the part of the seat most interacted with. Topped with high-resiliency molded foam (see Foam). Seat upholstery is stapled into place along a disciplined edge, and covered with a steel plate. Seat and back assembly can be easily removed or replaced as needed by way of four tamper proof bolts (per seat) underneath the frame. One-piece upholstery covers seat and back, eliminating the need for cleanouts.

BACK

CNC cut plywood panels create a structural box for the back, which is covered by high-resiliency molded foam (see Foam) to create comfortable upper back and lumbar support. The structural box for the back has metal plates attached to it so that the connection between back and frame is metal-to-metal, ensuring longevity and stability of the product. Upholstery is pulled over a disciplined edge at the bottom of the back.

FOAM

Foam is formulated to displace 25% of the existing non-renewable petroleum material with a sustainable plant based substitute without changing the physical properties, comfort, and longevity of the foam. The molded foam performs as regular based cut foam and provides a density of 4.2 PCF while the slab cut foam provides a density of 1.8 PCF.

FLAME RETARDANTS

Foam provided is compounded to meet specifications of the Federal Motor Vehicle Standard MVSS302 and California Bulletin No. 117 (TB117-2013).

FEET CONSTRUCTION

ROTO-MOLDED FOOT

All frames are finished with clear durable injection molded polycarbonate glides.

CERTIFICATIONS

ANSI/BIFMA X5.4 Public & Lounge Seating

STATEMENT OF LINE - SPECIFICATIONS



9101MHD-SLED-NA

Seat Height (in)	18
Total Height (in)	33
Seat Width (in)	23
Total Width (in)	23
Depth (in)	29
Weight Rating (lbs)	500
Product Weight (lbs)	77
Qty (pcs)/Volume (cu ft)	1/24

MATERIALS BREAKDOWN



STATEMENT OF LINE - SPECIFICATIONS

7100NHD

Seat Height (in)	18
Total Height (in)	33.75
Seat Width (in)	22
Total Width (in)	48
Seat Depth (in)	17
Total Depth (in)	74
Table Top Size (in)	30 x 48
Table Top Height (in)	29
Weight Rating (lbs)	500

FRAME CONSTRUCTION

FRAME

The main beam is constructed of 2 1/2" O.D. 11 gauge seam welded cold rolled tubular steel. "H" style tapered uprights (3" to 2 1/2") are constructed of 3/16" steel, notched to nest to the beam, welded in place, then ground and polished to a smooth surface finish. The Signal foot is a 4" wide, 3/16" thick welded steel assembly mechanically fastened to the "H" section upright with nylok hex nuts and plated 1/4-20 carriage bolts. Each T-base foot is finished with two durable black plastic (1" adjustable height) glides. Signal foot and column are available with or without decorative holes.

SEAT AND BACK CONSTRUCTION

SEAT & BACK PERFORATED

Perforated steel seat is constructed of 11 gauge formed steel punched to a 1" centered pattern. Connections are welded in place and the seat bracket is metal to metal.

CERTIFICATIONS

ANSI/BIFMA X5.4 Public & Lounge Seating
ANSI/BIFMA X5.5 Desk/Table Products

OPTIONS

Tabletop is coated steel. Bariatric seating sizing available.