

The **Dreamline STX2** cushion has increased positioning, pain & pressure management capabilities, incorporating new materials & design.



- New FLO2™ inner & outer covers with amazing 4-way stretch, cooling & moisture wicking properties can transform to many asymmetrical builds.
- Large dual Cluster Gel Fluid packs mobilize efficiently to redistribute weight. The gel is contained in robust nylon woven dual layered bags with hook attachment to the comfort layer. The Gel Beans have their own inherent cushioning which can soften the feel of the cushion.
- The comfort wrap with its FLO2™ cover, is smooth & soft rather than corrugated. The gel is contained inside a zip-up compartment at the rear for easier transfers.
- The positioning base can now accommodate limited hip flexion up to 70 degrees, has dedicated pelvic obliquity pads & individual left/right pre-ischial shelf growth wedges enable better pelvic rotation management with the additional capability of offsetting the Ischial well sideways to accommodate wind-swept postures.

70° Hip Flexion

Abduction

Pelvic Rotation

Wind-sweeping

Pelvic Obliquity



INCLUDED IN THE PACKAGE	
ITEM	QTY
Positioning Base	1
Laterals	2
Abductor Pommel - left	1
Abductor Pommel - right	1
Thigh Wedges	4
Pre-ischial Shelf Pads	4
Pelvic Obliquity Pads	4
Comfort Wrap	1
Cluster Gel Fluid Packs	2
FLO2™ Incontinence Cover	1
FLO2™ Outer Breathable Cover	1

CUSHION HEIGHT UNDER USER	
Cushion width	Height under user – seat base to leg channel (neutral set-up)
12" x 12"	70mm
12" x 14" – 14" x 14"	75mm
14" x 16" – 18" x 18"	85mm
18" x 20" – 20" x 20"	90mm

SPECIFICATIONS	
Contour Support Height	80mm
Max User Weight	136kg (300lbs) - Up to 20".
Cushion Weight (with Gel insert) 18" x 18"	3.8kg
Fire Retardant?	Yes. Foam & fabrics have a FR feature to CAL-117 std.
Gel Cluster Packs	<ul style="list-style-type: none"> Durable Nylon / Urethane fabric air-tight packs Multiple Soft Polymer Gel Cluster beans Proprietary Fire retardant lubricant
Incontinence Cover	<ul style="list-style-type: none"> FLO2™ Fabric urethane backed. Non-slip rubberised urethane base Machine washable
Outer Breathable cover	<ul style="list-style-type: none"> FLO2™ Fabric top panel Neoprene / 3D Spacer fabric side & front panels Non-slip rubberised urethane base. Carry handle on underside of cushion. Velcro loop panels on underside of cushion. Machine washable
Positioning Base components	EVA Closed Cell Foam
Comfort Wrap	<ul style="list-style-type: none"> High Resilient Enduro FR Foam Inner (25mm thick for cushions up to 14" x 16" - 30mm thick for cushions above 14" x 16") Removable / washable cover Includes rear pocket to contain Gel. Split legs for improved positioning. Velcro ties at front to inhibit roll-back during frontal transfers.

ASYMMETRICAL POSITIONING	
Pelvic Obliquity	Yes. Up to 1 ½"
Pelvic Rotation	Yes. Up to 3"
Abduction – external femoral rotation	Yes.
Adduction – Internal femoral rotation	Yes.
Windswept	Yes.
Off-set Ischial Well for windswept postures	Yes.
Hip Flexion (left, right individually)	70°, 80°, 90°, 100°, 110°

TESTS & STANDARDS

ITEM	TEST	DESCIPTION	STATUS
FLO2™ fabric	EN10021-1/2	Stretch fabric EU FR Test	pass
FLO2™ fabric – urethane backed	EN10021-1/2	Stretch fabric EU FR Test	pass
3D Spacer Fabric	BS EN1021-1/2 :2014	FR Tests	pass
Enduro Foam inner	AS1530/pt3, BS5852/source#5 Mod, CAL-117, F.A.R.25.853/App.F/part 1	FR Tests	pass
EVA Closed cell foam base	CAL-117	FR Test	pass
Neoprene	CAL-117	FR Test	pass
Gel Pack fabric	CAL-117	FR Test	pass

MATERIALS SELECTION



OUTER COVER

ITEM	MATERIAL	REASON
Top Panel	FLO2™	Chosen for its Extreme 4-way stretch which allows it to easily form to extreme asymmetrical postures while enable maximum immersion. It is also moisture wicking, cooling properties.
Side panels (bottom half)	3D Spacer Fabric	Selected for its lightweight, breathability & with its limited stretch helping to hold the cushion in position on the seat base.
Front Panel & Side Panels (top half)	Neoprene	Neoprene has a medium 4-way stretch which helps to hold the form of the cushion whilst stretching to form to asymmetrical shapes.
Base Panel	Non-slip Rubberised Urethane	This helps to grip to the seat base of the wheelchair. This fabric has no stretch which helps hold the cushion in place. Full width Loop Strips allow easy attachment to reciprocal hook on the seat base. The handle is neatly positioned on the underside of the cushion safely away from contact which sensitive skin. A full 3-sided perimeter zip enables easy removal & fitting of the cover.



INCONTINENCE COVER

ITEM	MATERIAL	REASON
Top / Front / Side Panels	FLO2™ (Urethane Coated)	Chosen for its Extreme 4-way stretch which allows it to easily form to extreme asymmetrical postures while enable maximum immersion.
Base Panel	Non-slip Rubberised Urethane	This helps to grip to the seat base of the wheelchair when used without the outer cover (if being washed etc). This fabric has no stretch which helps hold the cushion in place. A full 3-sided perimeter zip enables easy removal & fitting of the cover.



The re-designed Comfort wrap flexes to the cushion shape better & enables improved comfort & immersion. This is achieved by means of fabric selection (FLO2™) and eliminating the bonding of the fabric layers to the foam. This also removes the need for the corrugations in the foam.

COMFORT WRAP		
ITEM	MATERIAL	REASON
Top Panel	FLO2™	Chosen for its Extreme 4-way stretch which allows it to easily form to extreme asymmetrical postures while enable maximum immersion. It is also moisture wicking, cooling properties.
Inside Rear Pocket & base panels	Hook Receptive Loop Fabric	The loop fabric on the base panel holds the Comfort Wrap to the Positioning Base of the cushion & the loop inside the rear pocket holds the Gel Cluster packs in the desired selected position.
Foam Inner	Enduro (High Resilient) Foam	Enduro Foam used for its excellent durability & comfort. Supportive for long sitting periods yet softly immersing the user for better weight redistribution. The open cell foam structure allows air-transfer helping to keep the cushion cool.

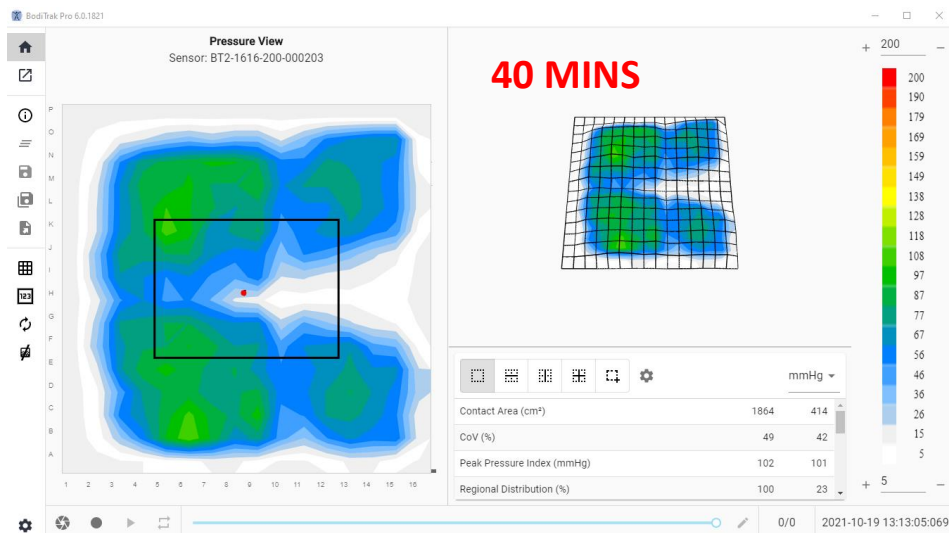
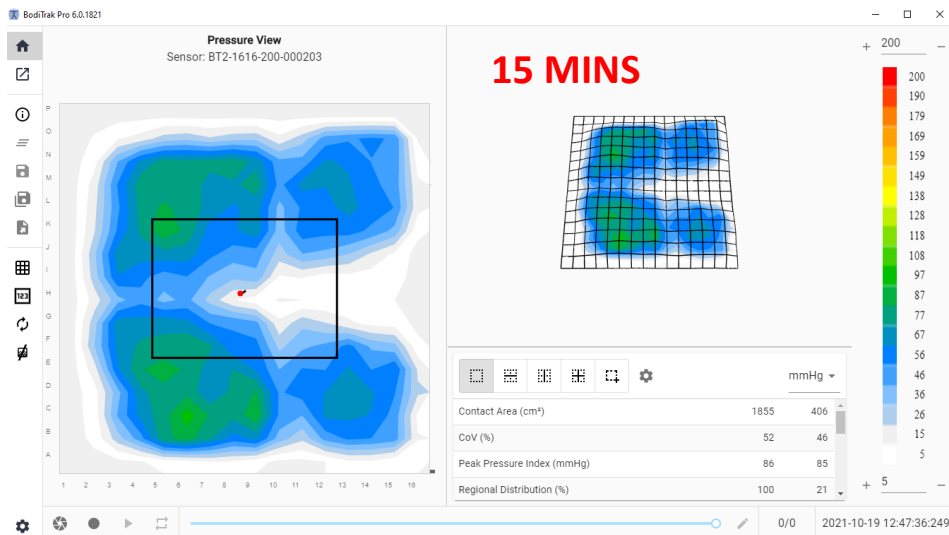
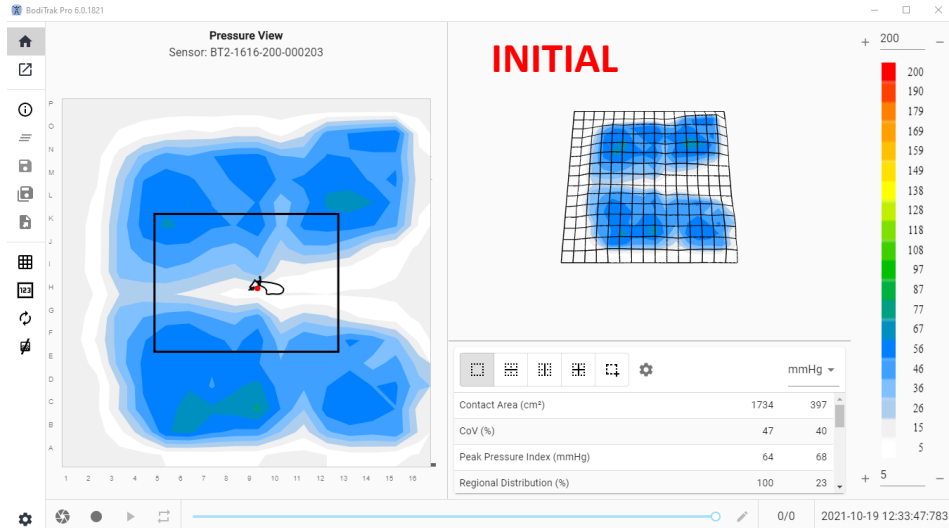


GEL PACKS		
ITEM	MATERIAL	REASON
All	Nylon – Urethane Backed	Woven Nylon is extremely durable & with the urethane film backing contains the fluid securely. Without stretch, the fluid gel has boundaries to its sphere of dispersion help to maintain even support to the user.



POSITIONING BASE		
ITEM	MATERIAL	REASON
All	EVA Closed Cell Foam	EVA Closed Cell Foam provides a firm yet cushioned support structure to the cushion. Closed Cell Foam also forms & sets to the user's body shape over time increasing the comfort to each individual user. "EVA" Closed Cell Foam was chosen over "PE" Closed Cell Foam because of its increased resilience & comfort. The laterals & Abductor Pommel pieces use a firm grade for maximum support whilst the base & other pieces use a medium grade for cushioning.

CLUSTER GEL FLUID PACK - PRESSURE MAPPING RESULTS



CUSHION HEIGHT MEASUREMENTS

STX2 Cushion (new)			
Cushion length	Positioning base height	Wrap thickness	Overall cushion height – seat base to underneath thighs
12" / 14"	45mm	25mm	70mm
16" / 18"	55mm	30mm	85mm
20"	60mm	30mm	90mm
22"	65mm	30mm	95mm

STX Cushion (original)			
Cushion length	Positioning base height	Wrap thickness	Overall cushion height – seat base to underneath thighs
12" / 14"	45mm	25mm	70mm
16" / 18" / 20" / 22"	45mm	35mm	80mm