



Hyperbolic 2.0™

Self Restraining FIBC



Baffle Bags are old now.

Think Modern. Think Hyperbolic 2.0™



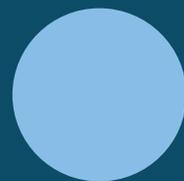
Savings up to 30%

Baffle Bag V/s Hyperbolic 2.0 Bag

REGULAR BAFFLE BAG 4 PANEL	CIRCULAR HYPERBOLIC 2.0 BAG DIMENSIONS	FABRIC GSM	REGULAR BAFFLE BAG WEIGHT(g)	REGULAR HYPERBOLIC 2.0 BAG WEIGHT(g)	REGULAR BAG SAVING %	DUST PROOF BAFFLE BAG WEIGHT(g)	DUST PROOF HYPERBOLIC 2.0 BAG WEIGHT(g)	DUST PROOF BAG SAVING %
35x35x55 inch (89x89x140 cm)	32x32x55 inch (81x81x140 cm)	160	1957	1469	24.94%	2201	1559	29.15%
		170	2028	1532	24.43%	2272	1623	28.56%
		180	2099	1596	23.95%	2343	1623	30.72%

40x40x55 inch (102x102x140 cm)	37x37x55 inch (94x94x140 cm)	160	2188	1663	23.99%	2441	1762	27.80%
		170	2270	1738	23.45%	2523	1837	27.19%
		180	2352	1812	22.95%	2604	1911	26.62%

42x42x55 inch (107x107x140 cm)	39x39x55 inch (99x99x140 cm)	160	2280	1740	23.65%	2536	1843	27.32%
		170	2365	1819	23.11%	2621	1921	26.71%
		180	2451	1897	22.60%	2707	2000	26.13%





Hyperbolic 2.0™ FIBC

Storage and transportation of bulk materials in Standard FIBC not only takes more space but also leads to higher space utilisation in containers & Trucks. Companies generally use Baffle Bags to maintain the shape which requires more stitching and more Polymer usage.

To resolve this issue, Emmbi has developed Hyperbolic 2.0™ technology that offers specially weaved fabric to handle the out-ward forces by reducing the impact of the perpendicular force on the walls of the filled FIBC which results in a Hyperbolic 2.0 shape without the use of internal baffles. Hyperbolic 2.0 FIBCs accurately fits on pallets with stability and optimise storage space.



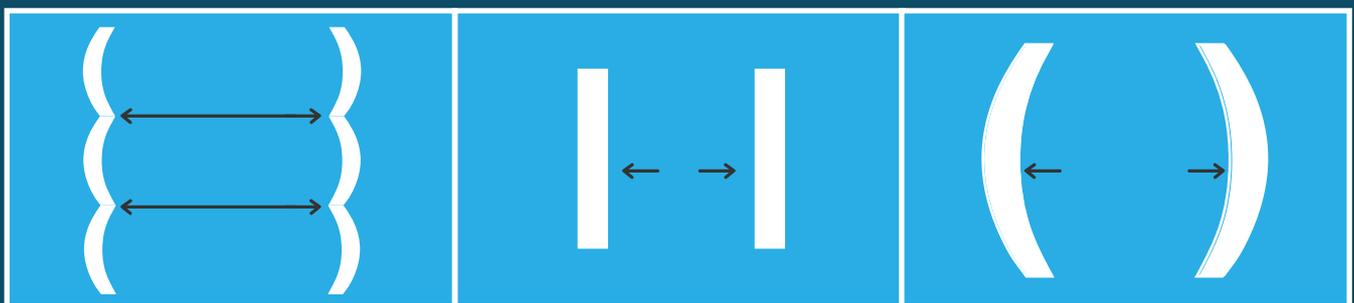
Space Utilization Ratio



Vs



Vs



Controlled Parabolic

Hyperbolic 2.0™

Parabolic

Bulge control but low volume due to internal baffles.

Precise bulge control without internal baffles & more volume
"Hyperbolic 2.0 Technology"

Bulging after filling the FIBC, taking more space.





Hyperbolic 2.0™ FIBC



Key Features:

- 1 • 20 % Less usage of Manpower & 23% less material consumption over conventional Baffle bags hence more cost efficient.
- 2 • There are Zero vertical seams in a circular FIBC & 4 vertical seams in a 4 panel FIBC compared to 12 vertical seams in a conventional Baffle bag.
- 3 • Storage optimization by 30% leading to direct saving of space over regular FIBC.
- 4 • Less polymer consumption hence more sustainable way to pack.

GLOBAL PATENT APPLICATION NO. : PCT/IN/2023/050109



Conventional Baffle Bag, Facts & Challenges

- Conventional Baffle Bag : Bulge Control by Internal Baffling
- Total 12 Vertical seams
- Not very Suitable for Food & Pharma grade Operation
- High Cost of Assembly due to much higher stitching work and more consumption of the raw material required
- Non – Eco friendly design due to higher polymer consumption



Get rid of internal baffles which reduces the bags volume