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Summary of the Combinations of all Three Weights, Two Jig Sizes, and Six Cushions

Regular Weight Condition= 31.00 lbs Overload weight= 10.23 lbs
Overweight Condition= 37.2 lbs Overload weight= 12.28 lbs
Underweight Condition= 22.95 lbs Overload weight= 7.6 lbs

16" W = Ischial tuberosities modeled by 50 mm indentors spaced at 10.5 cm apart center to center, trochanters modeled by 25 mm indentors spaced at 35 cm apart center to center. The strap connecting the piece is 50 mm wide.

18" W = Ischial tuberosities modeled by 50 mm indentors spaced at 12 cm apart center to center, trochanters modeled by 25 mm indentors spaced at 38 cm apart center to center. The strap connecting the piece is 50 mm wide.

RAW DATA:

Cushion Type	condition	Regular Weight Conditions		Overweight Conditions		Underweight Conditions	
		16" W	18" W	16" W	18" W	16" W	18" W
Reference Foam 70	LCD	4.4	4.3	4.7	4.5	3.7	3.4
	OL depth	0.6	0.7	0.6	0.6	0.6	0.7
Varilite Evolution	LCD	2.8	2.9	3.2	3.1	2.7	2.5
	OL depth	0.4	0.4	0.5	0.3	0.3	0.4
Infinity Invacare with foam insert	LCD	3.52	3.55	4.2	4.1	3.3	3.1
	OL depth	0.6	0.5	0.4	0.4	0.4	0.5
Infinity Invacare with gel insert	LCD	3.7	3.7	4.0	4.0	3.4	3.3
	OL depth	0.4	0.4	0.4	0.4	0.3	0.4
Reference Foam 45	LCD	3.0	2.9	3.5	3.8	2.8	2.8
	OL depth	0.4	0.5	0.5	0.7	0.5	0.5
Jay 2	LCD	2.6	2.6	2.8	2.9	2.3	2.3
	OL depth	0.3	0.3	0.3	0.2	0.2	0.2

REPORTED DATA:

Cushion Type	condition	Regular Weight		Overweight		Underweight	
		16" W	18" W	16" W	18" W	16" W	18" W
Reference Foam 70	LCD	4 1/2	4 1/2	4 1/2	4 1/2	3 1/2	3 1/2
	OL depth	1/2	1/2	1/2	1/2	1/2	1/2
Varilite Evolution	LCD	3	3	3	3	2 1/2	2 1/2
	OL depth	1/2	1/2	1/2	1/2	1/2	1/2
Infinity Invacare with foam insert	LCD	3 1/2	3 1/2	4	4	3 1/2	3
	OL depth	1/2	1/2	1/2	1/2	1/2	1/2
Infinity Invacare with gel insert	LCD	3 1/2	3 1/2	4	4	3 1/2	3 1/2
	OL depth	1/2	1/2	1/2	1/2	1/2	1/2
Reference Foam 45	LCD	3	3	3 1/2	4	3	3
	OL depth	1/2	1/2	1/2	1/2	1/2	1/2
Jay 2	LCD	2 1/2	2 1/2	3	3	2 1/2	2 1/2
	OL depth	1/2	1/2	1/2	0	0	0

Overweight conditions were tested using 20% more weight than regular conditions and Underweight conditions were tested using 20% less weight than regular conditions.

Summary Calculations:

RAW DATA:

		Difference compared to regular weight condition			
		Overweight 16"	Overweight 18"	Underweight 16"	Underweight 18"
Reference Foam 70	LCD	0.3	0.2	-0.7	-0.9
	OL depth	0.0	-0.1	0.0	0.0
Varilite Evolution	LCD	0.4	0.2	-0.1	-0.4
	OL depth	0.1	-0.1	-0.1	0.0
Infinity Invacare with foam insert	LCD	0.7	0.6	-0.2	-0.5
	OL depth	-0.2	0.0	-0.2	0.0
Infinity Invacare with gel insert	LCD	0.3	0.3	-0.3	-0.4
	OL depth	0.0	0.0	-0.1	0.0
Reference Foam 45	LCD	0.5	0.9	-0.2	-0.1
	OL depth	0.1	0.2	0.1	0.0
Jay 2	LCD	0.2	0.3	-0.3	-0.3
	OL depth	0.0	-0.1	-0.1	-0.1

REPORTED DATA:

Difference compared to regular weight condition

		Overweight 16"	Overweight 18"	Underweight 16"	Underweight 18"
Reference Foam 70	LCD	1/2	0	- 1/2	-1
	OL depth	0	-0	0	0
Varilite Evolution	LCD	1/2	0	-0	- 1/2
	OL depth	0	-0	-0	0
Infinity Invacare with foam insert	LCD	1/2	1/2	-0	- 1/2
	OL depth	-0	-0	-0	0
Infinity Invacare with gel insert	LCD	1/2	1/2	- 1/2	- 1/2
	OL depth	0	0	-0	0
Reference Foam 45	LCD	1/2	1	-0	-0
	OL depth	0	0	0	0
Jay 2	LCD	0	1/2	- 1/2	- 1/2
	OL depth	0	-0	-0	0