

Project: Concrete Arborloo Base

Revision #:

Importance	Engr. Requirement (metric)	Unit of Measure	Customer Req	Marginal Value	Ideal Value	Slab 1	Slab 2	Slab 3	Slab 4	Dome 1	Dome 2	Dome 3
High	Purchase Cost	\$	1	50	25	8.97	3.83	N/A	3.83	3.78	3.78	3.78
High	Load it can support	lbs	3	270	450	502	375	N/A	490	403	225.19	285
High	Hole diameter it covers	in	2	18	20	22	22	22	22	22	22	22
Medium	Squat hole widest point	in	3	9	10	10.50	10.25	N/A	10.35	10.42	10.42	10.33
Low	Static coefficient of friction against ground	-	3	0.5	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medium	Tripping hazards	in	3	6	N/A	2.03	1.46	N/A	1.53	3.9	4.04	4.02
High	Time to assemble	hours	5	2	1	1.25	0.75	0.76	1	1	0.93	0.60
High	Hand tools needed to assemble	qty	1,5	3	0	1	1	1	1	1	1	1
High	Weight of heaviest assembled piece	lbs	4,5	100	80	63.00	43.50	40.00	59.50	31.02	30.91	36.5
High	People needed to move heaviest assembled piece	qty	5	2	1	2	1	N/A	2	1	1	1
Low	90% of Users find easy to clean	survey	4,5	90%	100%	To be tested in Haiti						
Medium	Lifecycle	kg CO ₂	1,8	27	27	6.5	6.5	6.5	6.5	4.5	4.5	4.5
Low	90% of Users find comfortable	survey	6	90%	100%	To be tested in Haiti						
Low	90% of Users find visually appealing	survey	7	90%	100%	To be tested in Haiti						
Medium	Pieces for available upgrade	qty	9	2	3	3	3	N/A	3	2	2	2

Customer Requirements	
1	Affordable
2	Covers Hole
3	Safe to Use
4	Moveable
5	Simple to Setup
6	Comfortable
7	"Modern" Aesthetics
8	Servicability
9	Allows Financing in Parts

Pass
Fail
Marginal
In Progress