

Project: Concrete Composite Arborloo Base

Revision #: 1

rqmt. #	Importance	Function	Engr. Requirement (metric)	Unit of Measure	Marginal Value	Ideal Value
S1	9	Minimize	Purchase Cost	\$	100	25
S2	9	Maximize	Load it can support	lbs	270	450
S3	3	Maximize	Hole diameter it covers	in	12	20
S4	3	Minimize	Squat hole widest point	in	8	10
S5	1	Maximize	Static coefficient of friction against ground	-	0.5	0.6
S6	3	Target	Tripping hazards	qty	0	0
S7	9	Minimize	Time to assemble	hours	4	1
S8	3	Minimize	Hand tools needed to assemble	qty	2	0
S9	9	Minimize	Weight of heaviest assembled piece	lbs	100	80
S10	9	Minimize	People needed to move heaviest assembled piece	qty	2	1
S11	3	Maximize	90% of Users find easy to clean	survey	90%	100%
S12	3	Maximize	Lifecycle	years	10	100
S13	3	Maximize	90% of Users find comfortable	survey	90%	100%
S14	3	Maximize	90% of Users find visually appealing	survey	90%	100%
S15	3	Maximize	Pieces for available upgrade	qty	2	3