

HMT GEODESIC DOME MATERIAL SPECIFICATION SHEET

ITEM	COMPONENT DESCRIPTION	ALLOY
Triangulated Structure		
	Standard Beams	AA-6061-T6 / AA-6005-T5
	Tension Ring Beams	
	Shoe Beams	
	Tension Ring Brace Plates	AA-6061-T6 / AA-5454-H34, 300 Series Stainless Steel
	Node Plates	300 Series Stainless Steel
Closure Covering		
	Skin Panels	AA-3003-H16, 0.05" (1.27 mm) min. thickness
	Skirt Flashing	
Cover Fastening System		
	Batten Bar	Channel Extrusion, AA-6061-T6 / AA-6063-T5
	Panel Sealant	Butyl TREMSIL 440 (by Tremco or equal)
	Fasteners	300 Series Stainless Steel (A2)
Beam Connections		
	Structural Fasteners	300 Series Stainless Steel (A2)
Sealing Systems		
Tank Shell Perimeter Seal	Birdscreen	1/2" sq. Woven or Welded Mesh (Alum./Stainless Steel)
Gasket Seals	Roof Hatches, Nozzles	EPDM / Neoprene
Caulking (if reqd)	Sealant	Clear, UV Resistant Silicone
Anchors		
	Slide Base	AA-6061-T6 / AA-6005-T5 (Extruded Shape)
	Tank Shell Attachment	Carbon Steel
	Low-friction Bearing Pad	Teflon, 5/32" (4 mm) min. thickness
	Isolation Pad	300 Series Stainless Steel
ACCESSORIES		
	Grounding Cables	1/8" (3.2 mm) 300 Series Stainless Steel Wire
	Roof Hatches, Nozzles	AA-3000 Series / AA-5000 Series
	Center Vent	
	Skylights	1/4" thk. Clear Acrylic
	Pipe Penetrations (Existing)	EPDM Retrofit Boot
	Platforms, Walkways, Handrails, Misc.	Alum. / 300 Series Stainless Steel