

## **MATERIAL & DESIGN CORE SPECIFICATION - 2021**

IVI-GOLF / Sandtrapper 5 Pine Camp Dr. Binghamton, NY 13904 888-970-5111



## **GENERAL SPECIFICATIONS**

Proper use and construction of the PermaEdge Bunker System (referred to as "the System") involves unique and specialized requirements that conform with patented and patent-pending processes. Beyond the simple concept of synthetic turf, the System employs the use of repurposed synthetic turf that meets specific compositional, dimensional, preparatory, construction, and safety requirements. It is the precise steps and combination of these requirements that form the System. At its core, the System is a method of constructing a retaining wall from recycled, sand-impregnated synthetic turf; supplied as multi-dimensional tiles; site-prepared and built employing a stacked, alternating layer approach; additionally secured with a compacted, dry-mixed, Portland Modified Soil back fill.

Reference Typical PermaEdge Profile and Specification Notes

BASIC PHYSICAL			
Material	Synthetic Sports Turf		
Condition	Used/Recycled		
Backing	Perforated SBR Latex		
In-Fill	Pre-Impregnated, Kiln-Dried Sand		
Bio-Mass	Safety Tested for International Trade		
	US	Metric	
Size (approximate ±15%)	Anchor Tiles - 19.5 x 6.8 x .75 inches Fascia Tiles - 19.5 x 4.8 x .75 inches	Anchor Tiles - 500mm x 173mm x 20mm Fascia Tiles - 500 x 122mm x 20mm	
Palletization - Face Area	69.4 sq ft	6.45 sq m	
Palletization - Size	48 x 40 x 28 inches	1200mm x 1000mm x 711mm	
Palletization - Weight	2500-2800 lbs	1134-1270 kg	

Excavated & Reclaimed from Site Optional - Sourced	
50/50 to 30/70 Ratio to 15/85 - Consult the Technical Advisor	
Ordinary Portland Cement (Type II) AASHTO M85	
5 to 10% by volume (19:1 to 19:2 soil/sand to OPC) varies by site conditions, wall height, and wall angle	
3 lbs per sq ft face	1.5 kg per sq meter face
.2 cu m per sq m face	.65 cu ft per sq ft face
2.5 inch maximum layer	60mm maximum layer
90%	
	50/50 to 30/70 Ratio to 15/85 - Ordinary Portland Cement (Type 5 to 10% by volume (19:1 to 19:2 height, and wall angle 3 lbs per sq ft face .2 cu m per sq m face 2.5 inch maximum layer

<b>BUNKER PREPARATIONS</b>			
Excavation Prior to Arrival	To desired height and slope		
Preparation Prior to Arrival	Level, Compact Bench/Foundation		
Bench Size	12-14 inches	.3 to .36 meters	

ions On-site, required, dimensional cuts as defined by bunker curvatures	
1:4 ratio alternating Anchor/Fascia Tiles	
Inclinometer Verified to Target Angle	
Following each PermaEdge Layer	
Single, Double or Triple	

