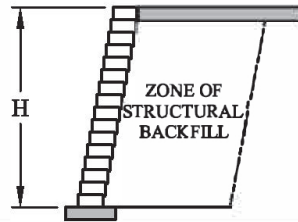
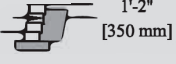






















# Anchorplex™ Construction with Diamond® 10D Retaining Wall System Estimating Chart for Structural Backfill

## No Slopes and No Surcharges

FOR ESTIMATING PURPOSES ONLY - NOT FOR CONSTRUCTION



	CLAY & SILT SOIL	SILTY / CLAYEY SAND SOIL	CLEAN SAND & GRAVEL SOIL
H	$\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
2'-0" (600 mm) 4 Courses	 1'-2" [350 mm] 0.10 x Wall Length = CY of Structural Backfill	 STRUCTURAL BACKFILL NOT REQUIRED	 STRUCTURAL BACKFILL NOT REQUIRED
3'-0" (900 mm) 6 Courses	 1'-2" [350 mm] 0.14 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.14 x Wall Length = CY of Structural Backfill	 STRUCTURAL BACKFILL NOT REQUIRED
4'-0" (1200 mm) 8 Courses	 1'-2" [350 mm] 0.19 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.19 x Wall Length = CY of Structural Backfill	 STRUCTURAL BACKFILL NOT REQUIRED
5'-0" (1500 mm) 10 Courses	 1'-6" [450 mm] 0.31 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.24 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.24 x Wall Length = CY of Structural Backfill
6'-0" (1800 mm) 12 Courses	 1'-9" [520 mm] 0.43 x Wall Length = CY of Structural Backfill	 1'-6" [450 mm] 0.37 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.29 x Wall Length = CY of Structural Backfill
7'-0" (2100 mm) 14 Courses	 2'-2" [650 mm] 0.62 x Wall Length = CY of Structural Backfill	 1'-9" [520 mm] 0.50 x Wall Length = CY of Structural Backfill	 1'-6" [450 mm] 0.43 x Wall Length = CY of Structural Backfill
8'-0" (2400 mm) 16 Courses	 2'-6" [750 mm] 0.81 x Wall Length = CY of Structural Backfill	 2'-2" [650 mm] 0.71 x Wall Length = CY of Structural Backfill	 1'-9" [520 mm] 0.57 x Wall Length = CY of Structural Backfill

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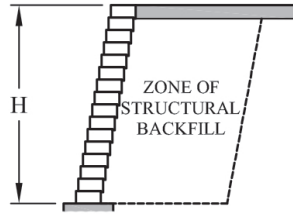
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AWS22-253 10/22

# Anchorplex™ Construction with Diamond® 10D

## Retaining Wall System Estimating Chart for Structural Backfill

### 100 PSF Surcharge

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	CLAY & SILT SOIL	SILTY / CLAYEY SAND SOIL	CLEAN SAND & GRAVEL SOIL
H	$\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
2'-0" (600 mm) 4 Courses	0.12 x Wall Length = CY of Structural Backfill 1'-6" [450 mm]	0.10 x Wall Length = CY of Structural Backfill 1'-2" [350 mm]	0.10 x Wall Length = CY of Structural Backfill 1'-2" [350 mm]
3'-0" (900 mm) 6 Courses	0.21 x Wall Length = CY of Structural Backfill 1'-9" [520 mm]	0.18 x Wall Length = CY of Structural Backfill 1'-6" [450 mm]	0.14 x Wall Length = CY of Structural Backfill 1'-2" [350 mm]
4'-0" (1200 mm) 8 Courses	0.35 x Wall Length = CY of Structural Backfill 2'-2" [650 mm]	0.29 x Wall Length = CY of Structural Backfill 1'-9" [520 mm]	0.24 x Wall Length = CY of Structural Backfill 1'-6" [450 mm]
5'-0" (1500 mm) 10 Courses	0.51 x Wall Length = CY of Structural Backfill 2'-6" [750 mm]	0.44 x Wall Length = CY of Structural Backfill 2'-2" [650 mm]	0.36 x Wall Length = CY of Structural Backfill 1'-9" [520 mm]
6'-0" (1800 mm) 12 Courses	0.67 x Wall Length = CY of Structural Backfill 2'-9" [820 mm]	0.61 x Wall Length = CY of Structural Backfill 2'-6" [750 mm]	0.53 x Wall Length = CY of Structural Backfill 2'-2" [650 mm]
7'-0" (2100 mm) 14 Courses	0.90 x Wall Length = CY of Structural Backfill 3'-2" [950 mm]	0.78 x Wall Length = CY of Structural Backfill 2'-9" [820 mm]	0.71 x Wall Length = CY of Structural Backfill 2'-6" [750 mm]
8'-0" (2400 mm) 16 Courses	1.10 x Wall Length = CY of Structural Backfill 3'-6" [1050 mm]	1.03 x Wall Length = CY of Structural Backfill 3'-2" [950 mm]	0.90 x Wall Length = CY of Structural Backfill 2'-9" [820 mm]

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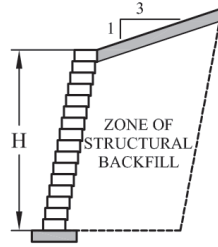


# Anchorplex™ Construction with Diamond® 10D

## Retaining Wall System Estimating Chart for Structural Backfill

### 3:1 Crest Slope

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	CLAY & SILT SOIL	SILTY / CLAYEY SAND SOIL	CLEAN SAND & GRAVEL SOIL
H	$\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	$\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
2'-0" (600 mm) 4 Courses	 1'-2" [350 mm] 0.10 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.10 x Wall Length = CY of Structural Backfill	 STRUCTURAL BACKFILL NOT REQUIRED
3'-0" (900 mm) 6 Courses	 1'-2" [350 mm] 0.14 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.14 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.14 x Wall Length = CY of Structural Backfill
4'-0" (1200 mm) 8 Courses	 1'-6" [450 mm] 0.24 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.19 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.19 x Wall Length = CY of Structural Backfill
5'-0" (1500 mm) 10 Courses	 1'-9" [520 mm] 0.36 x Wall Length = CY of Structural Backfill	 1'-6" [450 mm] 0.31 x Wall Length = CY of Structural Backfill	 1'-2" [350 mm] 0.24 x Wall Length = CY of Structural Backfill
6'-0" (1800 mm) 12 Courses	 2'-2" [650 mm] 0.53 x Wall Length = CY of Structural Backfill	 1'-9" [520 mm] 0.43 x Wall Length = CY of Structural Backfill	 1'-6" [450 mm] 0.37 x Wall Length = CY of Structural Backfill
7'-0" (2100 mm) 14 Courses	 2'-9" [820 mm] 0.78 x Wall Length = CY of Structural Backfill	 2'-2" [650 mm] 0.62 x Wall Length = CY of Structural Backfill	 1'-9" [520 mm] 0.49 x Wall Length = CY of Structural Backfill
8'-0" (2400 mm) 16 Courses	 3'-2" [950 mm] 1.03 x Wall Length = CY of Structural Backfill	 2'-6" [750 mm] .81 x Wall Length = CY of Structural Backfill	 2'-2" [650 mm] 0.71 x Wall Length = CY of Structural Backfill

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