



**CONTECH**<sup>®</sup>  
ENGINEERED SOLUTIONS

ANCHOR WALL  
Shoreline  
Protection  
System

Tomorrow's Environments Engineered

## ANCHOR WALL: The Only Complete System Available

The Contech® ANCHOR WALL™ system is the first all-steel approach to construction of shoreline walls. It gives you all the components needed to design for structural adequacy and efficiency.

Compared to conventional bulkheads, ANCHOR WALL offers unique economies and aesthetics ... maximum strength-to-weight ratio, design flexibility, best corrosion protection for freshwater applications, specially designed trim and stiffening members for concealing fasteners and more.

### The System

- **Contech Metric Sheeting** forms the face and is the barrier between the water and soil. Long-term durability and corrosion resistance is assured by using zinc-coated steel or ALUMINIZED STEEL Type 2.
- **Deadman Anchors**, sized and located according to the designer's recommendations, are all-steel 6" x 2" box corrugated units braced for maximum stiffness and resistance to movement.
- **Tie Rods** are hot-dip galvanized steel. Sized by the designer for the applied tensile load, they connect the deadmen and metric sheeting wall.

- **Wale Cap** acts as a top stiffener and molding piece. This stiff 10-gauge unit is made from either zinc-coated or ALUMINIZED STEEL Type 2.
- **Face Wales**, in 5-gauge hot-dip galvanized steel, prevent wall bulging. Use on walls needing extra stiffness and/or require deadmen at different soil levels.
- **Fasteners** are hot-dip galvanized steel to resist corrosion.

Gauge	Thickness		Weight**	
	Inches	Lb./Lin. Ft. of Pile	Lb./Sq. Ft. of Wall	
5	0.2092	21	12	
7	0.1793	18	10	
8	0.1644	16	9	
10	0.1345	13	7	
12	0.1046	10	6	

\*\*Weights shown are approximate

Gauge	Section Modulus (In. <sup>3</sup> )		Moment of Inertia (In. <sup>4</sup> )	
	Per Section	Per Foot	Per Section	Per Foot
5	6.28	3.48	11.04	6.12
7	5.39	2.99	9.44	5.23
8	4.95	2.75	8.65	4.79
10	4.07	2.25	7.05	3.91
12	3.18	1.76	5.46	3.02

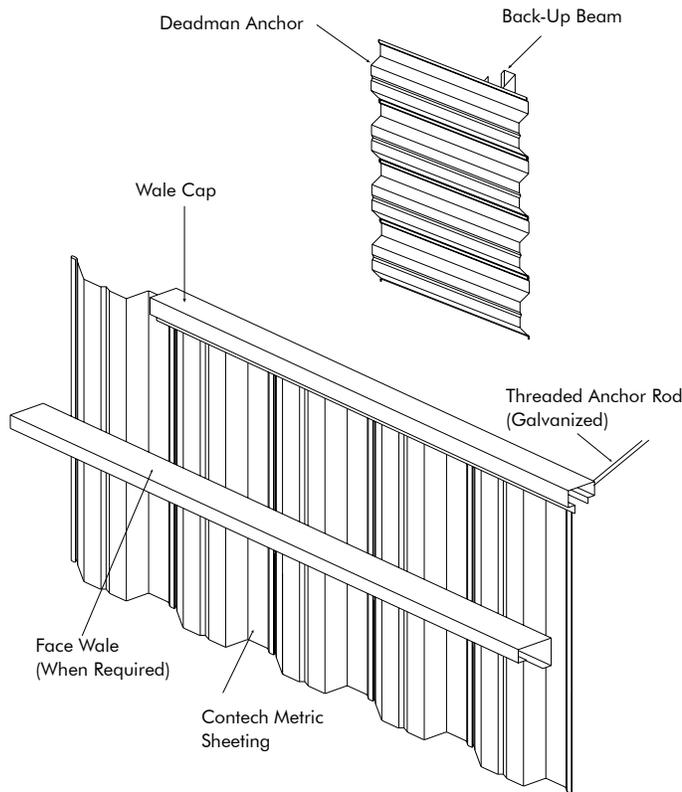
\*Note: All dimensions and properties are subject to manufacturing variances and tolerances



## Metric Sheeting Meets the Need for Efficient Shoreline Protection

Contech Metric Sheeting forms the face of the ANCHOR WALL system and is the barrier between the water and soil. Tight interlocks reduce water infiltration and soil exfiltration. The sheeting is installed using vibratory hammers. In less difficult soil conditions, sheeting is installed using a backhoe bucket. Long-term durability is provided by using zinc-coated steel or ALUMINIZED STEEL Type 2.

Tight interlocks, high section modulus factor, cost-effective gauges and widths and the availability of shop-applied corrosion protection systems make Metric Sheeting the designer's choice where durability and aesthetics are important.



## Specifications

### Contech Metric Sheeting

Black Steel

—ASTM A 1011; Grade 30 (all gauges)

Hot-Dip Galvanized (2 oz./ft.<sup>2</sup>)

—ASTM A 123

Pregalvanized Steel (8,10 and 12 gauge)

—ASTM A 929 Grade A zinc-coated to Class G-210 (2 oz./ft.<sup>2</sup>)

ALUMINIZED STEEL Type 2 (8,10 and 12 gauge)

—AASHTO M274-87, weight of coating shall be 1 oz./ft.<sup>2</sup>

### Contech Deadman Plank

Pregalvanized Steel (12 gauge)

—ASTM A 653 Grade A zinc-coated to Class G-210 per ASTM A 929 (2 oz./ft.<sup>2</sup>)

Tie-Back Rod, Bearing Plate, Bearing Channel and Turnbuckle

—ASTM A 36 and when specified, hot-dip galvanized to ASTM A 123 (2 oz./ft.<sup>2</sup>)

Deadman Backup Beam (5 gauge)

Bearing Plate (1/4" thick)

Bearing Channel (5 gauge)

—ASTM A 1011 hot-dip galvanized per ASTM A 123 (2 oz./ft.<sup>2</sup>)

### Wale Materials

Wale Cap (10 gauge)

—ALUMINIZED STEEL Type 2; AASHTO M274-87, weight of coating shall be 1 oz./ft.<sup>2</sup>, or Pregalvanized Steel, ASTM A 929, zinc-coated to Class G-210 (2 oz./ft.<sup>2</sup>)

Face Wale (5 gauge)

—ASTM A 1011 hot-dip galvanized per ASTM A 123 (2 oz./ft.<sup>2</sup>)

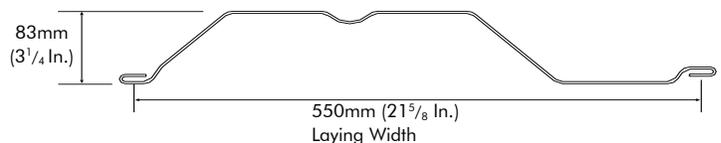
Stiffeners Minimum Section Properties

	I (In. <sup>4</sup> )	S (In. <sup>3</sup> )	Area (In. <sup>2</sup> )	Approx. Wt. (Lb./Ft.)
Top Wale Cap	31.75	7.11	3.48	12
Face Wale	41.59	8.98	4.46	15

Anchor Size

HxW	or HxW	Anchor Strength (Lb.)	Number of Back-up Beams
2x2		15,500	1
2x3	3x2	23,250	1
2x4	4x2	27,600	1
2x5	5x2	32,000	2
3x3		15,500	1
3x4	4x3	32,000	2
3x5	5x3	32,000	2
4x4		23,500	2
4x5	5x4	29,350	2
5x5		21,450	2

Maximum design strength of deadman unit—service loads generally limited by soil strength.





**For more information, call one of Contech's Regional Offices:**

<b>Ohio (Corporate Office)</b>	<b>513-645-7000</b>
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