

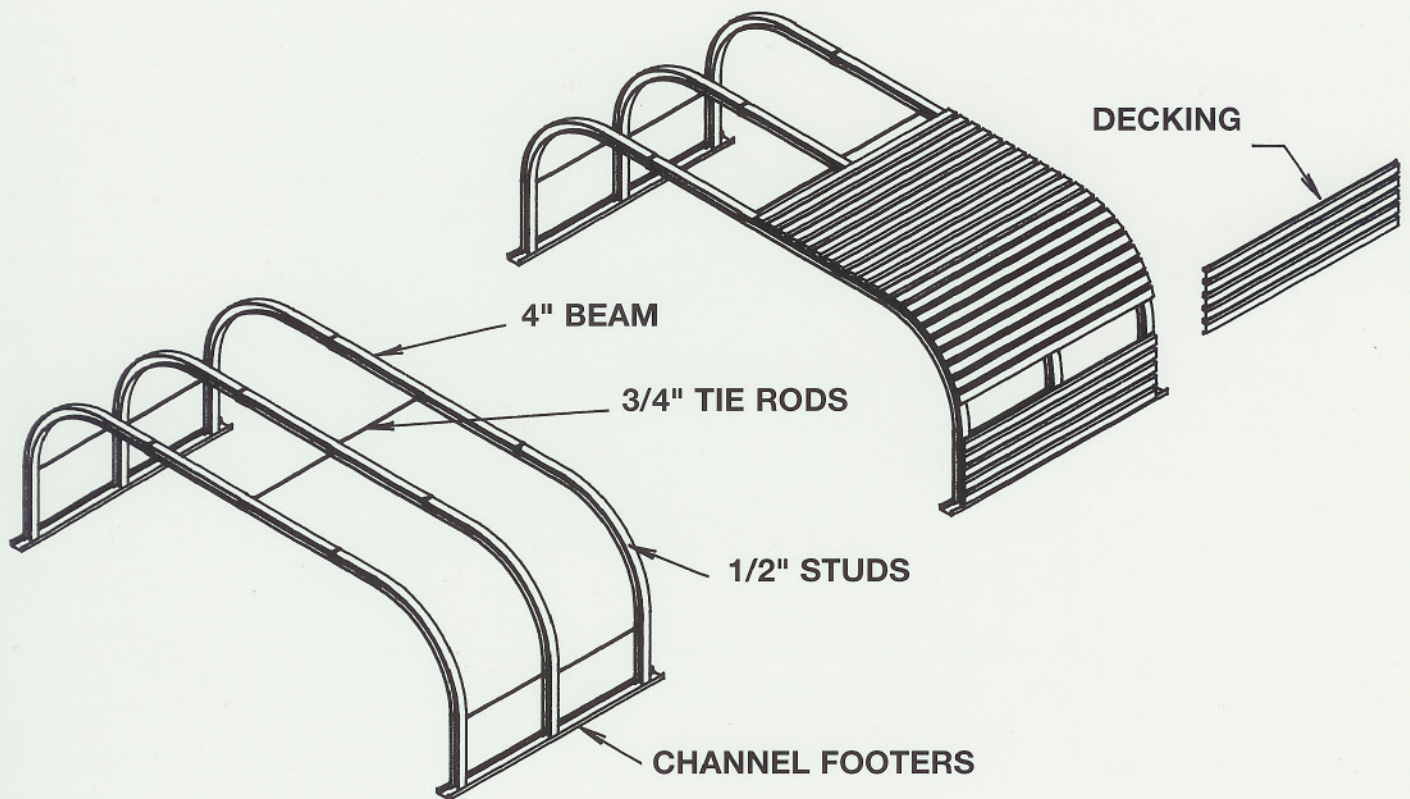
O V E R C A S T S



**AMERICAN COMMERCIAL
INCORPORATED**

PREFAB OVERCASTS

- Strong - Made with W.F.B.
- All Steel - No Aluminum
- Quick Erection - 2-4 Hours
- Most Sizes
- Reuseable



TYPICAL OVERCAST ASSEMBLY

CAPACITY OF 20 GAUGE DECKING WHEN RELATED TO THE LOAD APPLIED BY WINGWALLS ON OVERCAST

Standard Gauge of Decking 20g (Heavier gauges can be supplied on request.)

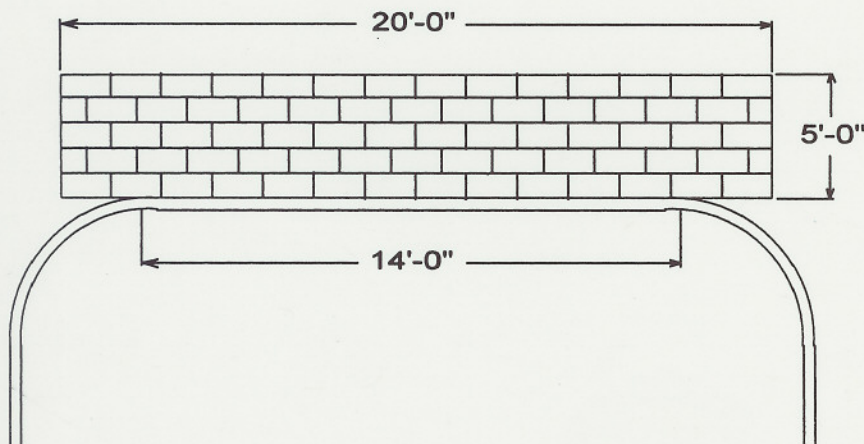
| | | |
|------------|-----------|---|
| Properties | 0.0358" | Design Thickness |
| | 0.232" | Moment of Inertia (in. ³ /ft.) |
| | 0.252" | Section Modulus (in. ³ /ft.) |
| | 2.16 lbs. | Weight per Square Foot |

Assuming dead load of 10 lbs./sq. ft., a flexural stress limit of 20 ksi, and deflection not to exceed 1/240th of the free span.

A capacity of 1455 lbs./ft.² can be achieved for crushing out.

Concrete weighs 160 lbs./cubic foot

Typical Wingwall



weighs

$$20 \times 5 \times 0.75 \times 160$$
$$= 12,000 \text{ lbs.}$$

14' of decking will carry load = 857 lbs./ft²

Safety Factor 1.697.

Also decking will crush onto steel rib, but overcast will still be airtight due to design.

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Commercial and our range
of underground support
products to
fill your need for:**

Steel Ribs
Liner Plates
Lattice Girders
Steel Lagging
Concrete Segments
Aliva Shotcrete Equipment
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