



# C - LOCK

## CLEAR SPAN METAL ROOFING

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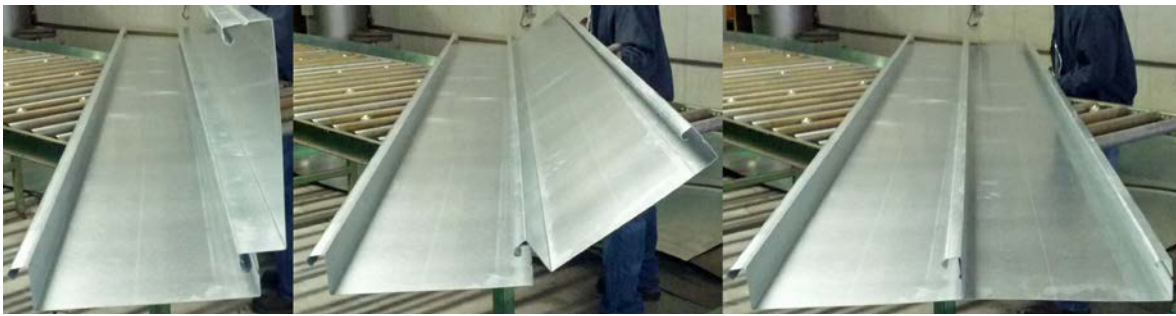
Clayton & Lambert C-Lock structural standing seam roofing is an ideal product for any new building or addition. Barns, machine sheds, run-in sheds, porches, garages, warehouses, and lean-to sheds are just a few examples of the ways this roofing has been utilized.

Originally designed for the clear-span requirements of our grain bins, this roofing eliminates the need for rafters and purlins, cutting the cost of your construction project. In addition to strength, the 225 degree, 3 inch tall C-Lock flange provides a weather tight seal.

### What makes C-Lock roofing different?

- While the “span” capabilities of most roofing panels could be measured with a yard stick, a 12” wide, 20 gauge C-Lock roof panel can span nearly 20’ between supports at 20psf snow loads. Additional panel widths and material thicknesses are available, depending on your load/span requirements.
- Due to the span capabilities of C-Lock roofing panels, the costs associated with lumber and framing are nearly eliminated.
- C-Lock roofing does not require the time consuming installation of mounting brackets, clips, or rails.
- C-Lock roofing doesn’t require any sort of “seaming” once the panels are installed. In addition to reducing installation times, this also means the roof panels can be removed or replaced, without damage, should the need ever arise.
- The underside of installed C-Lock roofing is completely smooth, leaving nowhere for unwanted wildlife to build nests.
- Manufactured from 18, 20, and 26 gauge G90 galvanized steel, C-Lock roofing is suitable for the most demanding environments. Panel widths and thicknesses are matched according to your span and loading requirements. Single panels can be manufactured to lengths of over 40 feet. Should your project require more than 40 feet of panel length, the end of one panel can be slid into the next. In doing this, roof length is unlimited.

Panel assembly is quick and easy. The outward facing seam of each panel simply locks over the inward facing seam of the panel before it.



Beginning or end panels can be made with either two inward facing seams or two outward facing seams for a more finished look.



To determine the span capability of C-Lock roofing, compare the chart below to your roof load requirements. Loads requirements are usually based on local snow load values, in pounds per square foot.

Material Thickness/ Panel Width	Span At 10 PSF	Span At 20 PSF	Span At 30 PSF	Span At 40 PSF	Span At 50 PSF	Span At 60 PSF
18 GA, 10 1/2' Wide Panels	34.6'	24.5'	20.0'	17.3'	15.5'	14.1'
18 GA, 12" Wide Panels	32.4'	22.9'	18.7'	16.2'	14.5'	10.8'
18 GA, 14 1/2" Wide Panels	29.4'	20.8'	17.0'	14.7'	13.2'	12.0'
18 GA, 20 1/2" Wide Panels	24.8'	17.5'	14.3'	12.4'	11.1'	10.1'
20 GA, 10 1/2" Wide Panels	30.0'	21.2'	17.3'	15.0'	13.4'	12.2'
20 GA, 12" Wide Panels	28.0'	19.8'	16.2'	14.0'	12.5'	11.4'
20 GA, 14 1/2" Wide Panels	25.5'	18.0'	14.7'	12.8'	11.4'	10.4'
20 GA, 20 1/2" Wide Panels	21.5'	15.2'	12.4'	10.7'	9.6'	8.8'
26 GA, 10 1/2" Wide Panels	21.2'	15.0'	12.2'	10.6'	9.5'	8.6'
26 GA, 12" Wide Panels	19.8'	14.0'	11.4'	9.9'	8.9'	8.1'
26 GA, 14 1/2" Wide Panels	18.0'	12.7'	10.4'	9.0'	8.1'	7.4'
26 GA, 20 1/2" Wide Panels	15.1'	10.7'	8.7'	7.6'	6.8'	6.2'

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