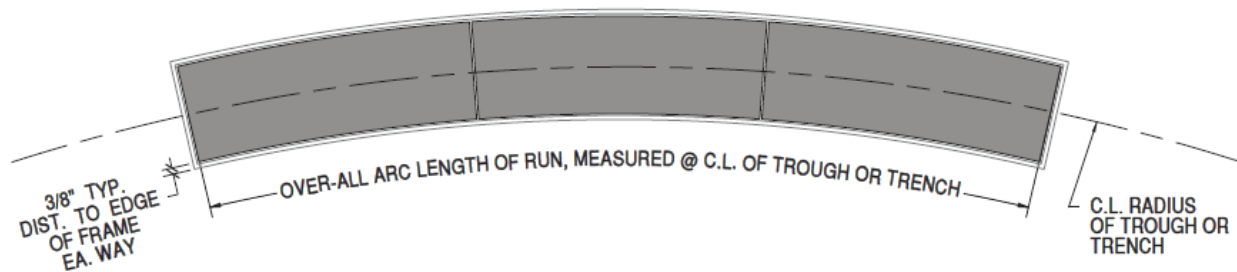


Radius Channel Cover

Considerations and Calculations



We can make a grating system to fit just about any situation. In order for us to collaborate with you on your radius trench project, you need to consider the following:

1. Your design selection, be it a currently stocked or custom adaptation of your design and nominal size of channel cover.
2. Radius of channel, measured @ C.L.
3. Overall length of run that would be the C.L. arc length OR number of castings. Keep in mind that the length of channel cover castings may vary w/manufacturer of channel that our designs are intended to fit (i.e. ACO = 498.475mm (19.625"), NDS = 609.6mm (24"), or custom design length).
4. Will partial castings be acceptable? If not, overall length must be adjusted to nearest whole grate.
5. To calculate complete circles: Divide the C.L. circumference in mm ($3.1416 \times \text{dia.}$) by the length of your design selection (products for ACO = 498.475mm (19.625"), NDS = 609.6mm (24"), or custom design) this will produce the number of castings.

Will partial castings be acceptable? If not, we will have to adjust either the length of the run or the radius in order to accommodate.

To calculate the number of whole castings in a circle take the previous answer and do this simple calculation - twice: once w/ the smaller whole number, and again w/ the next larger whole number.

of castings x length in inches (ACO = 498.475mm (19.625"), NDS = 609.6mm (24"), or custom) divided by 3.1416 = diameter in mm

Then you must decide which of these two C.L. diameters will work for you. A custom design can accommodate any diameter in equal pieces.

6. If frames are to be included, please specify frame type (see frame type drawings) and load requirement (pedestrian, med. duty, vehicular).
7. Trench covers can be bolted to frames for the purpose of maintaining equal spacing between castings, tamper resistance or increasing load bearing capacity.



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