

Comparative Structural Analysis of Different Types of Box Culvert

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Abstract: *In box gutters, the four sides of the structure are built monolithic, and also provide angles to reduce the effect of water pressure. In this type of gutter there is no need for an additional basis, because the lower plate acts as a carpet foundation. When the discharge flood is small, we prefer unicellular blankets. In the case of passages, we provide only three sides, and they are built monolithic. When the flood discharge is high, we need to increase the size of the box, and this leads to an increase in the thickness of the walls. This can lead to a non-economic autopsy. The present work consists of the analysis of the box culvert for different loading cases as per standard code.*

Keywords: Box Culvert

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