

Pro's and Cons Of Metal Buildings

The construction of buildings over the years has challenged engineers to create huge monoliths of buildings or even monuments that would mark their greatness, using different concepts, techniques, as well as the latest and strongest materials that would be able to support these [metal buildings](#). From the humble beginnings of carving out homes in huge rocks to the modern day development and structured creation of skyscrapers, metal buildings have been at the forefront of a trend in putting up the latest engineering feat across nations. Even so, this method is still not without flaws and disadvantages as to where it has evolved and improved from.

The positive outcomes of using steel in creating buildings outweigh the negative probabilities in which previous materials for construction were used. Two of the major forms of metal buildings still being constructed today are the I-beam type, which utilizes prefabricated beams of tempered steel to support the heaviest of known loads, and the Quonset Hut type which uses the dome shape and takes advantage of the added strength which the shape provides. Both boast of minimal maintenance requirements and segmented troubleshooting which makes it easier to make improvements and correct flaws in the metal buildings. Furthermore, the risk of catching fire would be minimal as it requires a very high temperature to even challenge the structural integrity of the building.

However, the main disadvantages of these structural wonders employing the use of I-beams and similar prefabricated steel components are the cost and specialized construction equipment required to support and handle these components. "Sweating" due to changing weather and climate conditions may also lessen its efficiency, although proper roofing and insulation procedures may be able to address this problem. While incidents requiring the repair and replacement of such components for metal buildings are quite infrequent, such incidents will cost a fortune in heavy equipment and replacement parts when they do happen.

About the Author

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