

Malta Bridge Structure Design



Overview

The St Elmo Bridge is a single-span arched truss steel footbridge leading from the foreshore of Fort Saint Elmo in Valletta, Malta, to the breakwater at the entrance of the Grand Harbour. It was constructed in 2011-12 to designs of the Spanish architects Arenas & Asociados. ELMO BREAKWATER FOOTBRIDGE IN VALLETTA GRAND HARBOUR The unique Valletta Grand Harbour (today UNESCO World Heritage Site) has been used as a port since Roman Empire times thanks to its magnificent natural characteristics, with a number of inlets which provide adequate shelter to naval vessels. It. Malta's Grand Harbour served during the nineteenth Century as a British naval base in the Mediterranean. Heinrich Semar for use on national road schemes in Malta. It contains extracts from those Standards contained in the ADT Design Manual for Roads and Bridges (ADT DMRB) that relate to the Geometric Design of Roads. The bridge had a width of. The Msida Creek Flyover forms part of a €35 million national infrastructure project aimed at modernising one of Malta's most strategic and heavily trafficked transport corridors.



Article Content

Apr 04, 2026

A New Footbridge in Valletta Grand Harbour to Fill A Geometric and ...

The bridge presented in this paper was selected from more than 20 entries to a design-and-build competition for the creation of a new crossing.

Dec 16, 2025

St. Venera Bridge

This iconic bridge was carefully designed and meticulously constructed to provide a safe and efficient passage for pedestrians through one of the most congested areas in Malta. The bridge's design ...

Mar 06, 2026

St Elmo Bridge

The St Elmo Bridge is a single-span arched truss steel footbridge leading from the foreshore of Fort Saint Elmo in Valletta, Malta, to the breakwater at the entrance of the Grand Harbour. It was ...

Mar 22, 2026

The biggest of bridges – The Malta Railway

One of the original plans involved a narrow, elegant, fifteen-arch viaduct rather than the present chunky bridge. This was perhaps rejected on cost, but the narrowness of the intended structure made no ...

Dec 05, 2025

New St. Elmo Breakwater Footbridge in Valletta Grand Harbour

After reflecting on the historical, social and cultural context, the location, and the competition design requirements, we proposed a footbridge whose main structural element is a ...

Dec 07, 2025

ST. ELMO BREAKWATER FOOTBRIDGE. Malta | Arenas& Asociados

The Arenas & Asociados proposal, winner of the competition, was an asymmetric footbridge with a Pratt Truss as the main structural element, with a span/rise relation similar than the original footbridge.

Oct 11, 2025

Design Manual for Roads and Bridges

The UK Design Manual for Roads and Bridges, Volume 6, is applicable in Malta as outlined in this introduction. Further information on the application of the manual in Malta is given in the General ...

Dec 12, 2025

St Angelo's Bridge, Malta - ctp website

St Angelo's Bridge, Malta Located in the historic area of Birgu, in Malta CTP have provided Civil and Structural design services related to two new bridges near Fort St. Angelo.

Jan 06, 2026

Case Study: Msida Creek Flyover

The MasterSeries Building Design Suite was used to develop and analyse the structural models, incorporating advanced finite element and dynamic analysis capabilities to capture the ...

Oct 19, 2025

Kappara Junction | MED Design Associates

To minimize disruptions to existing traffic, the innovative approach involved separating the lanes in each direction and prefabricating the structure using metallic beams and pre-slabs of reinforced concrete. ...

Dec 14, 2025

St Elmo Bridge

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Contact Us

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