

PARISH THEATER - S. MARIA MADDALENA (ROVIGO)

WOOD AT THE SERVICE OF CULTURE

For the parish center of Santa Maria Maddalena in Rovigo, Sistem Costruzioni has created a curved roof in laminated wood that serves the space dedicated to the classrooms and a 4-pitch roof that rests on the corners of the stairwell. In the theater, on the other hand, wooden steps have been placed made up of BBS cross-board panels, a construction system that favors resistance to fire by limiting the speed of propagation.

PRODUCT SPECIFICATION

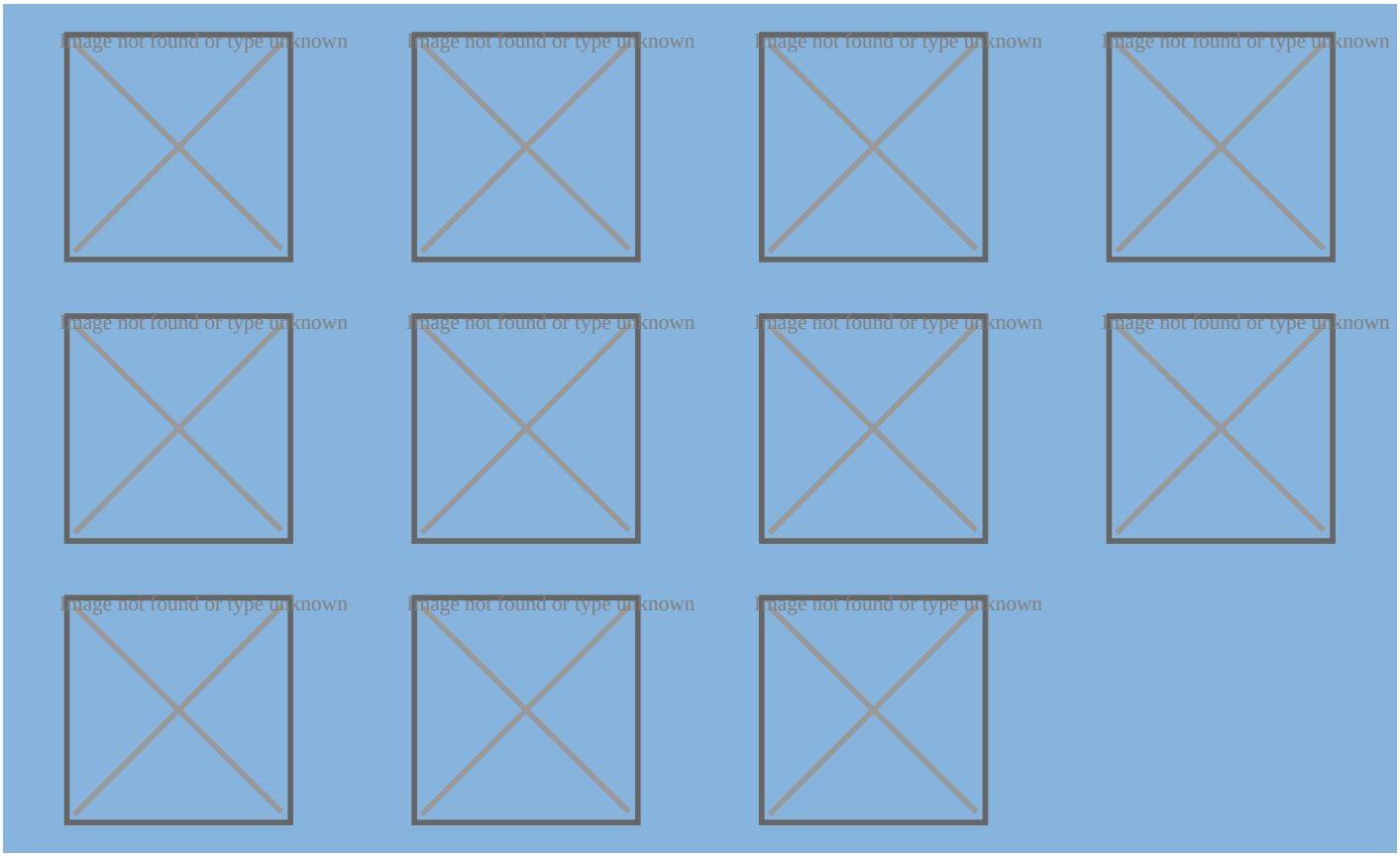
Cover and parish theater stalls

Localization: S. Maria Maddalena (Rovigo)

Intended use: Recreational Centres

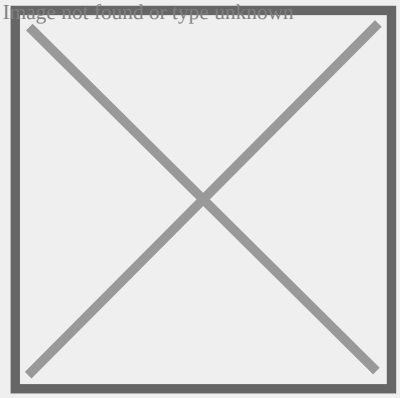
Architetural and structural design: Ing. Umberto Zampieri

Total area: 420ft



BUILDING SYSTEM

Laminated and Solid



Reasons for choosing the Laminated and Solid system

This construction system guarantees **the creation of timber roofs of various sizes and of different levels of complexity** in compliance with specific static loading calculations and transferring vertical and horizontal loads to the foundations by means of conventional building elements, in certain cases.

A durable and versatile timber roof

The unique characteristic of laminated wood and the connections between the various elements make it possible to create roof spans of more than 30 metres and **to build roofs of very large surface areas without having to break up the ground plan of the building with awkward intermediate pillars.**

High levels of insulation and strength

Depending on the thermal requirements, the **roof** can be completed with an insulating package and outer covering. The joists of the web roof structure can be designed in accordance with a very diverse range of geometries: the ridge beam establishes the shape of the roof while the wall plate beam can be adapted to match architectural, static or application requirements. The nodes of the web support structure can be created with metal plates fastened to the wood with screws and pins, with wood to wood joints, or by means of direct fastening with normal screws or full-threaded screws. Because they are extremely slender elements, timber joists or rafters must be braced with timber or steel elements designed to prevent the occurrence of lateral out-of-plane instability.

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