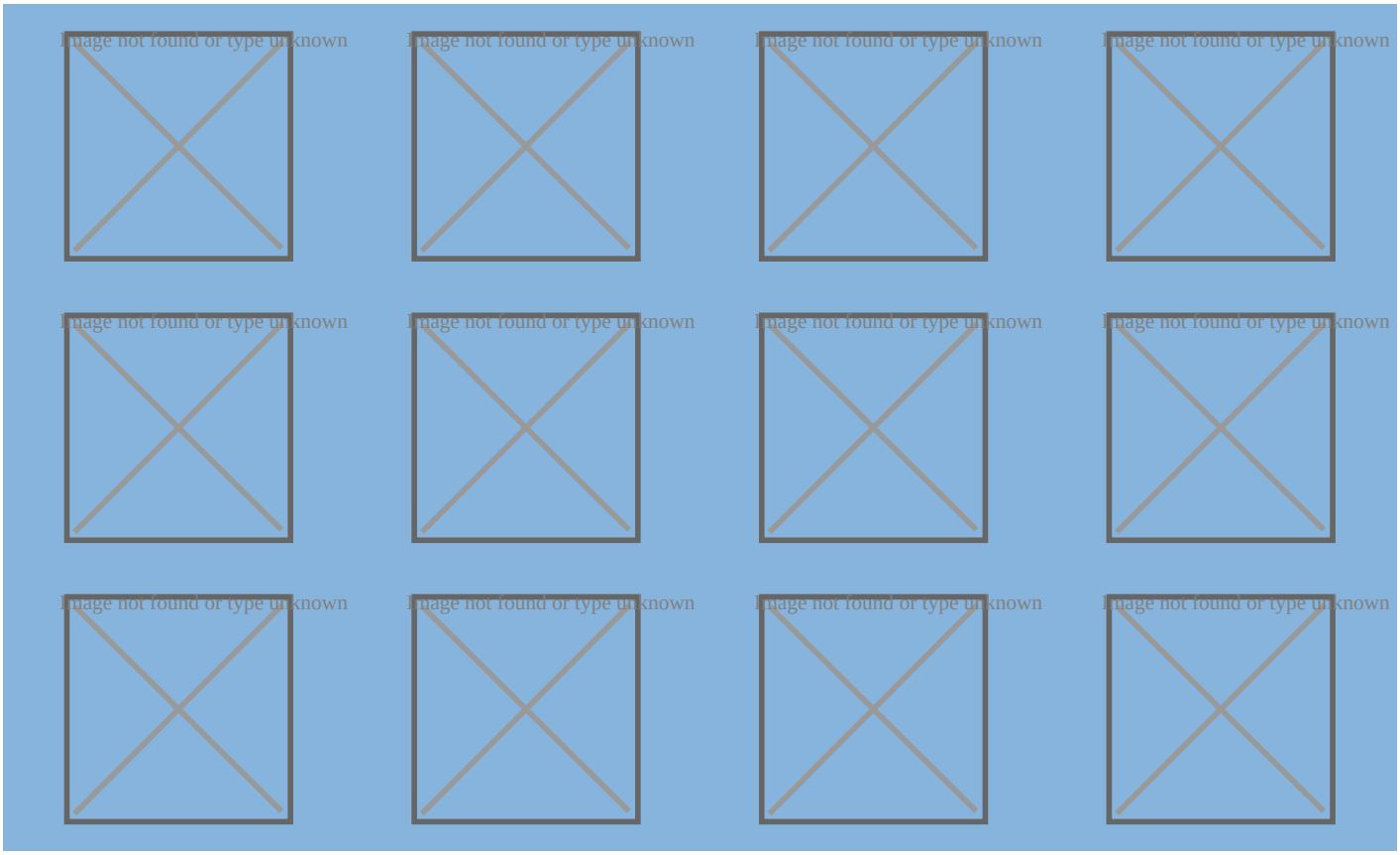
IPERCOOP ALLEANZA 3.0 – FORMIGINE (MODENA)

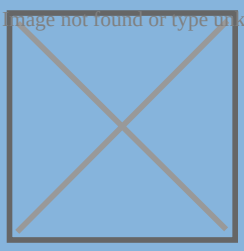
THE SUPERMARKET OF THE FUTURE

In the area of ??the former Bonollo distilleries, there is the new Ipercoop Alleanza 3.0, an efficient and sustainable building that is spread over three levels: the basement used as parking lots, the first floor that houses the sales area and the service areas while the second floor is intended for the service for employees and the technological area for plants and machinery. Green building, sustainability and energy efficiency are the three keywords that best describe the character of this wooden building. The solar tube lighting system, which through the installation of solar panels and 260 solar tunnels allows you to illuminate the rooms of the entire sale with natural sunlight. The supermarket is built according to the LEED for Retail protocol, a voluntary building certification system with the aim of promoting and developing sustainability, recognizing virtuous performance in key areas from a social, environmental and health point of view. A LEED certified building has numerous advantages, starting from the reduction of operating costs and waste sent to landfills, up to energy and water savings and a consequent improvement in the health of the environment.

PRODUCT SPECIFICATION

Supermarket
Localization: Formigine (Modena)
Intended use: Shopping facilities
Architetural and structural design: INRES
Total area: 4500ft

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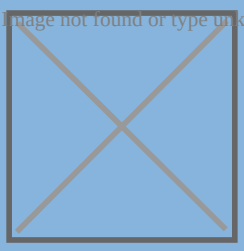
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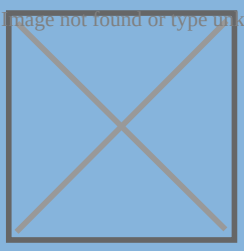
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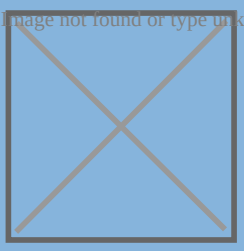
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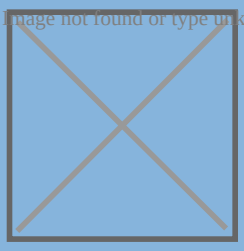
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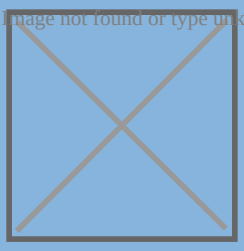
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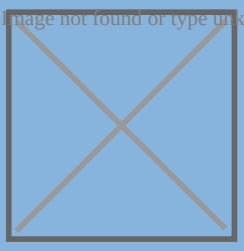
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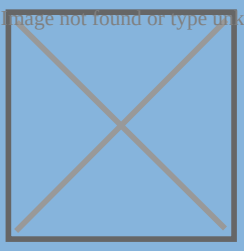
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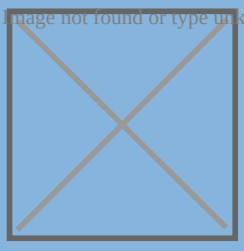
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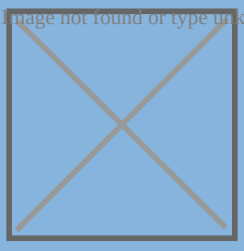
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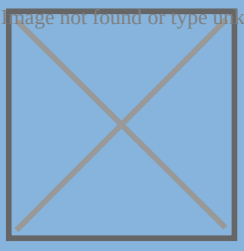
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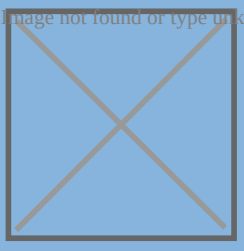
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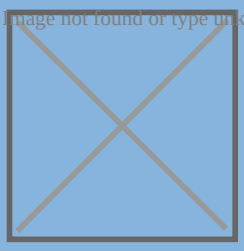
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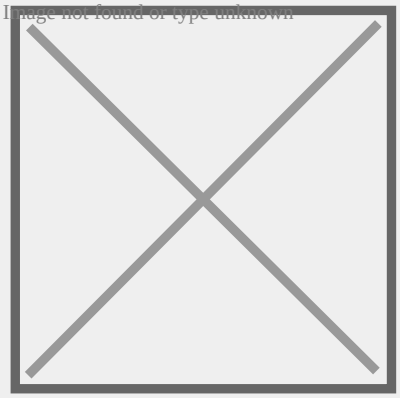
BUILDING SYSTEM

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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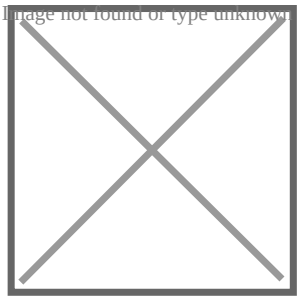

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