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CONSTRUCTIVE SYSTEM 3

STANDARD

GRUPO EXIDECON EXPORTACIONES



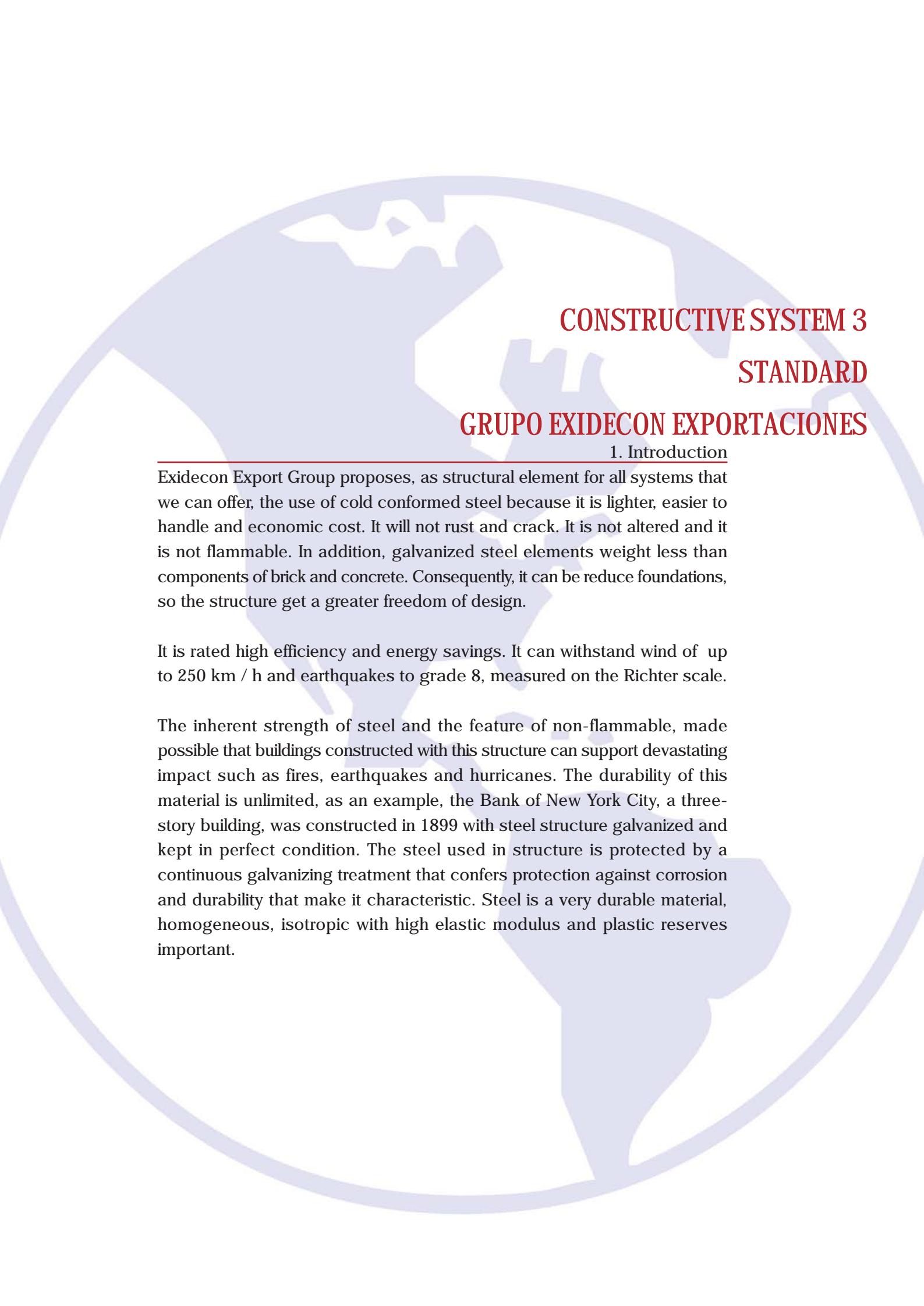
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**CONSTRUCTIVE SYSTEM 3
STANDARD**
GRUPO EXIDECON EXPORTACIONES

1. Introduction
2. Features
3. Details
4. Scope of supply
5. Plans



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1. Introduction

Exidecon Export Group proposes, as structural element for all systems that we can offer, the use of cold conformed steel because it is lighter, easier to handle and economic cost. It will not rust and crack. It is not altered and it is not flammable. In addition, galvanized steel elements weight less than components of brick and concrete. Consequently, it can be reduce foundations, so the structure get a greater freedom of design.

It is rated high efficiency and energy savings. It can withstand wind of up to 250 km / h and earthquakes to grade 8, measured on the Richter scale.

The inherent strength of steel and the feature of non-flammable, made possible that buildings constructed with this structure can support devastating impact such as fires, earthquakes and hurricanes. The durability of this material is unlimited, as an example, the Bank of New York City, a three-story building, was constructed in 1899 with steel structure galvanized and kept in perfect condition. The steel used in structure is protected by a continuous galvanizing treatment that confers protection against corrosion and durability that make it characteristic. Steel is a very durable material, homogeneous, isotropic with high elastic modulus and plastic reserves important.

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2. Features

Basic elements of the structure

Profiles in C and Z are the loadbearing elements of the structure placed every 60, 61 or 62.5 cm. Profiles in U are used to perform rigid joints, closure of the loadbearing structure and even like strengthening. For the joints of beams, trusses and other building elements are used angles and pieces as that are attached to the structure with high strength screws.

There are two types of steel studs:

A-Structural in C for main walls, both indoor and outdoors.
B-For indoor partition for walls no main.

The dimension of the pillars depends on the needs of material insulation and loads. We use C-90 and C-140.

The insulation outdoor panels can also be applied to walls to increase thermal efficiency or alternatively to increase space. Freedom is achieved in the design of doors and windows, security, easier installation and superior fire resistance as standard require.

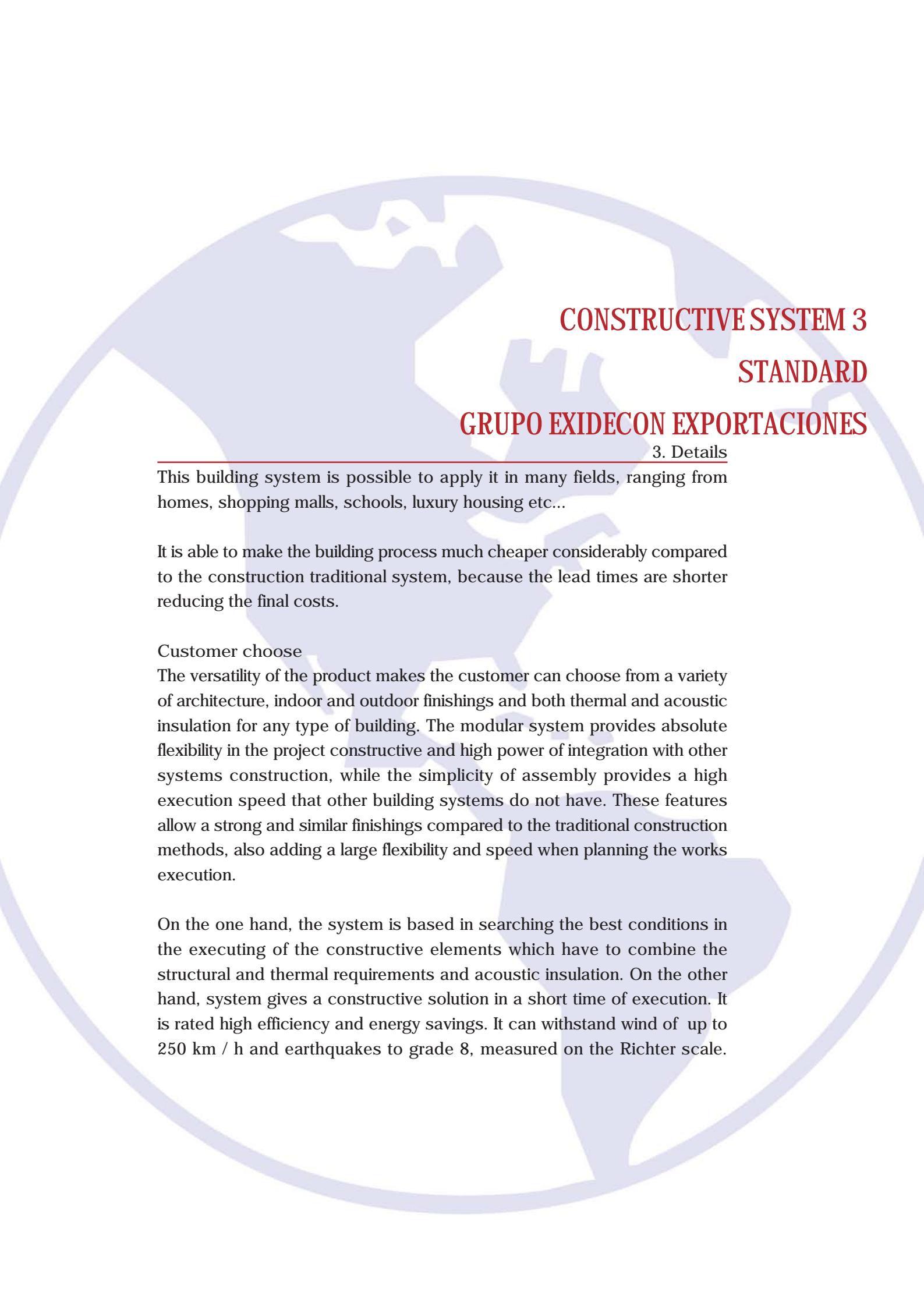
Slabs

Slabs are usually constructed with a thickness variation in the beams ranging between 15 and 30 cm and a thickness of steel between 1.5 and 4 mm. These beams allow to have open spaces for stairways passage or other openings. It is normally used a single beam C every 60 cm.

Roofs

The wide range of sizes and thicknesses of profile allows to use galvanized steel structures for any roof, from the most simple truss, up to complex system with hip and valley.

The structure can be mounted in work site or in factory.



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3. Details

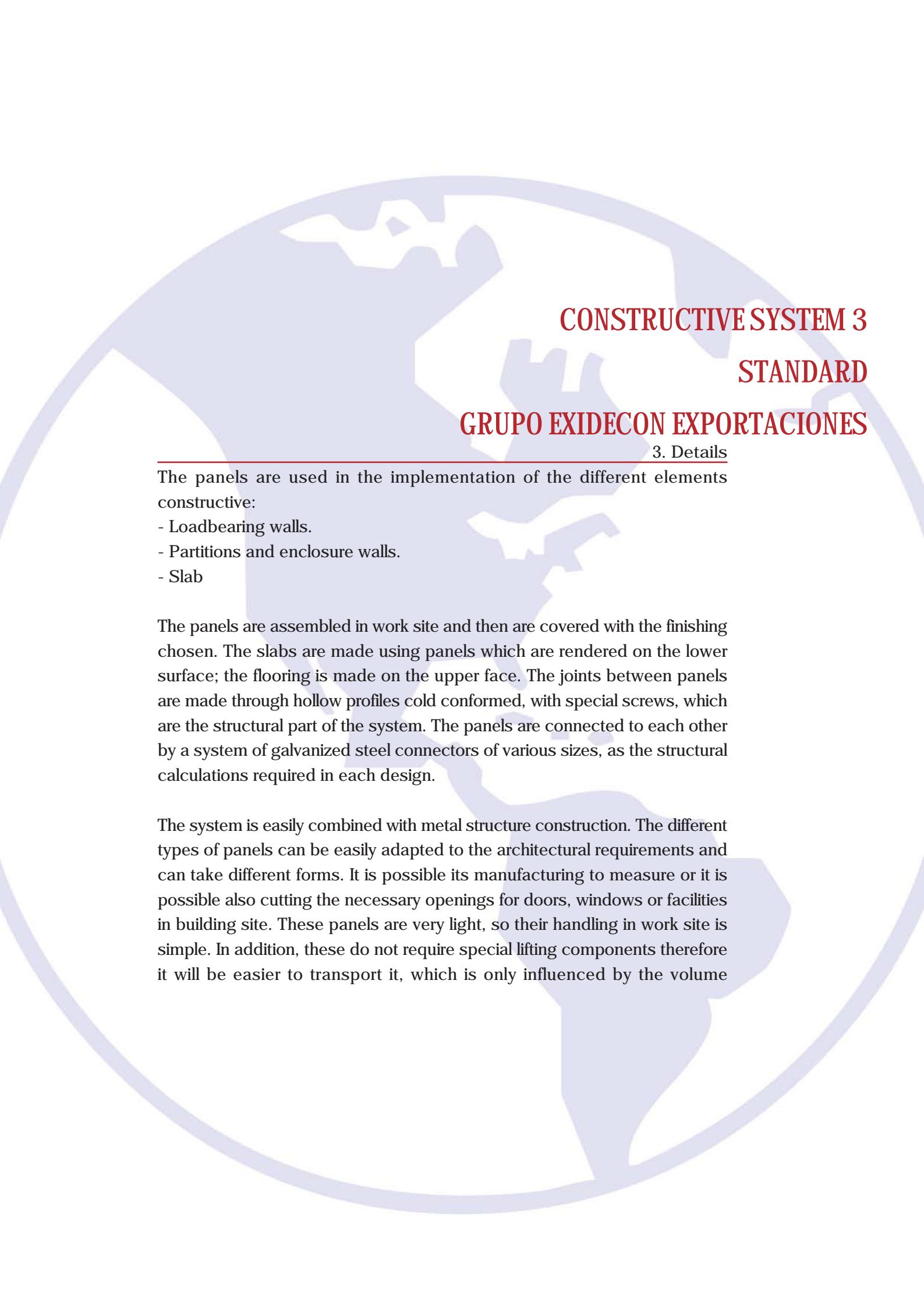
This building system is possible to apply it in many fields, ranging from homes, shopping malls, schools, luxury housing etc...

It is able to make the building process much cheaper considerably compared to the construction traditional system, because the lead times are shorter reducing the final costs.

Customer choose

The versatility of the product makes the customer can choose from a variety of architecture, indoor and outdoor finishings and both thermal and acoustic insulation for any type of building. The modular system provides absolute flexibility in the project constructive and high power of integration with other systems construction, while the simplicity of assembly provides a high execution speed that other building systems do not have. These features allow a strong and similar finishings compared to the traditional construction methods, also adding a large flexibility and speed when planning the works execution.

On the one hand, the system is based in searching the best conditions in the executing of the constructive elements which have to combine the structural and thermal requirements and acoustic insulation. On the other hand, system gives a constructive solution in a short time of execution. It is rated high efficiency and energy savings. It can withstand wind of up to 250 km / h and earthquakes to grade 8, measured on the Richter scale.



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3. Details

The panels are used in the implementation of the different elements constructive:

- Loadbearing walls.
- Partitions and enclosure walls.
- Slab

The panels are assembled in work site and then are covered with the finishing chosen. The slabs are made using panels which are rendered on the lower surface; the flooring is made on the upper face. The joints between panels are made through hollow profiles cold conformed, with special screws, which are the structural part of the system. The panels are connected to each other by a system of galvanized steel connectors of various sizes, as the structural calculations required in each design.

The system is easily combined with metal structure construction. The different types of panels can be easily adapted to the architectural requirements and can take different forms. It is possible its manufacturing to measure or it is possible also cutting the necessary openings for doors, windows or facilities in building site. These panels are very light, so their handling in work site is simple. In addition, these do not require special lifting components therefore it will be easier to transport it, which is only influenced by the volume

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4. Scope of supply

Outdoor walls

Drywall to the inside with paste and joint tape

Galvanized steel structures

Fibrecement panel 14 mm outside Tyvek Wall

Galvanized wire mesh of 0.4 mm (Nervometal Panel)

Sealant waterproof primer and sealant waterproof paint for outdoor.

Slab 1st floor

Drywall for ceiling with paste and tape to joints

Galvanized steel structures

Galvanized corrugated sheets of 0.6 mm (Greca 8 x 32 x 8 mm)

2 Staircases

Galvanized steel structures

Drywall for ceiling with paste and tape to joints

Roof

Tyvek for roofs.

Fibrecement panel 14 mm outside.

Galvanized steel structures to support ceramic tile.

Drywall for ceiling with paste and tape to joints

Partition

Drywall to the inside with paste and joint tape

Galvanized steel structures (wall bearing)

Galvanized steel substructures

Drywall to the inside with paste and joint tape.

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5. Plans

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- 1. Plan
 - 2. Elevation

