## **Catalogue**

**Light Steel Framing** 

## FERIAAC



WHO WE ARE FERMAC LSF



Fermac LSF's extensive knowledge and experience in the manufacture and supply of steel structures guarantee unsurpassed precision and quality. We are dedicated to using and developing cutting-edge technologies, state-of-the-art processes and systems to ensure that we remain at the forefront of this segment of the industry.

At Fermac LSF we select the best and largest steel mills as suppliers. Only the best raw materials guarantee products of exceptional quality, ultimately, those who benefit from the quality of our raw materials are our customers.





Building on LSF is promoting sustainability. The materials used are recyclable or eco-efficient. In addition, there is a significant reduction in CO2 emissions in the manufacture and assembly of the materials used, compared to the traditional method.

## At Fermac LSF We Help Build the Future Responsibly.

At Fermac LSF, we are committed to sustainable construction methods. Our "light steel" profiles not only provide exceptional strength and durability, but also contribute to a greener planet.

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**PROFILES FERMAC LSF** 

#### "C" Profile

Cold-formed galvanized steel structural profiles of C-section, i.e. profiles with composite flaps, with four edges. These profiles are usually used on interior and exterior walls, in the execution of ceilings, roof trusses, slabs and balconies. They are manufactured in top quality sheet metal meeting or exceeding all European standards.

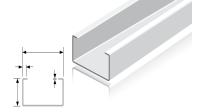
Steel grade: S280 GD | UNE EN-10346

Galvanized Coating: Z275 or ZM 310 Zinc magnesium

Tolerance: EN 10143:2006

StandardLengths: 3,000, 6,000 and 12,000 mm (Other lengths on request).

REF:	DESCRIPTION	THICKNESS	WEIGHT/MT	MEASURES
LSF02	C90 Profile	1.5MM	2,426kg	90X43X15
LSF04	Profile C150	1.5MM	3,132kg	150X43X15
LSF06	C200 Profile	2MM	4,961kg	200X43X15
LSF08	C250 Profile	2.5MM	7,183kg	250X43X15



#### "U" Profile

Cold-formed galvanized steel structural profiles with U-section, i.e. single-flapped profiles with two edges. They are usually referred to as "U"s, channels or lanes. They are manufactured in top quality sheet metal meeting or exceeding all European standards.

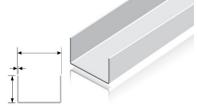
Steel grade: S280 GD | UNE EN-10346

Galvanized Coating: Z275 or ZM 310 Zinc magnesium

Tolerance: EN 10143:2006

StandardLengths: 3,000, 6,000 and 12,000 mm (Other lengths on request).

REF:	DESCRIPTION	THICKNESS	WEIGHT/M T	MEASURES
LSF01	U93 Profile	1.5MM	2,108kg	43X93
LSF03	U153 Profile	1.5MM	2,814kg	43X153
LSF05	U204 Profile	2MM	4,533kg	43X204
LSF07	U255 Profile	2.5MM	6,692kg	43X255



#### **Angles / Tape**

Cold-formed galvanized steel structural profiles serve to reinforce certain connections or to interconnect several parallel parts L-shaped pieces are used, that is, a sheet bent on a single edge, usually with flaps of equal dimensions They are manufactured in top quality sheet meeting or exceeding all European standards.

Steel grade: S280 GD | UNE EN-10346

Galvanized Coating: Z275 or ZM 310 Zinc magnesium

Tolerance: EN 10143:2006

StandardLengths: 3,000mm (Other lengths on request).

REF:	DESCRIPTION	THICKNESS	WEIGHT/M T	MEASURES
LSF09	L 50x50	1.5MM	1,178kg	50X50
LSF10	L 100x100	1.5MM	2,356kg	100X100
LSF11	Tape 100	1.5MM	1,178kg	100





ACCESSORIES FERMAC LSF

#### **MAG+ Boards**

MAG+ panels are an innovative panel of high performance, with numerous applications in the construction and rehabilitation of light steel, partitions, false ceilings, floors, wall cladding, facades and roofs. It is an alternative solution to plasterboard, OSB and cementitious boards in the coating of exterior walls, due to the thermal, acoustic and high durability characteristics, the Heavy Duty reference has the particularity of being a board with a structural purpose, thus being an excellent alternative to OSB board.

REF:	DESCRIPTION	THICKNESS	MEASURE
PLA03	MAG+ Mgo 12mm	12mm	1200x2400mm
PLA04	MAG+ Mgo FIRE 9mm	9mm	1200x2400mm
PLA07	MAG+ Mgo Heavy Duty 12mm	12mm	1200x2400mm
PLA08	MAG+ Mgo Heavy Duty 18mm	18mm	1200x2400mm
(Other measurements and references available.)			



#### **OSB Boards**

OSB boards serve to coat and reinforce the structure. These structural plates are composed of oriented wooden sheets. Hence the name: OSB - Oriented Strand Board. They are an agglomerate of long, oriented wood particles, with characteristics similar to those of the so-called glued laminated timber structural systems.

REF	DESCRIPTION	THICKNESS	MEASURE
PLA09	OSB-3 12MM	12mm	2500X1250X12MM
PLA10	OSB-3 18MM	18mm	2500X1250X18MM
PLA11	OSB-3 18MM M/F	18mm	2500X1250X18MM
PLA12	OSB-3 15MM	15mm	2500X1250X15MM
PLA13	OSB-3 22MM	22mm	2500X1250X22MM



(Other measurements and references available.)

#### Screws and fixings

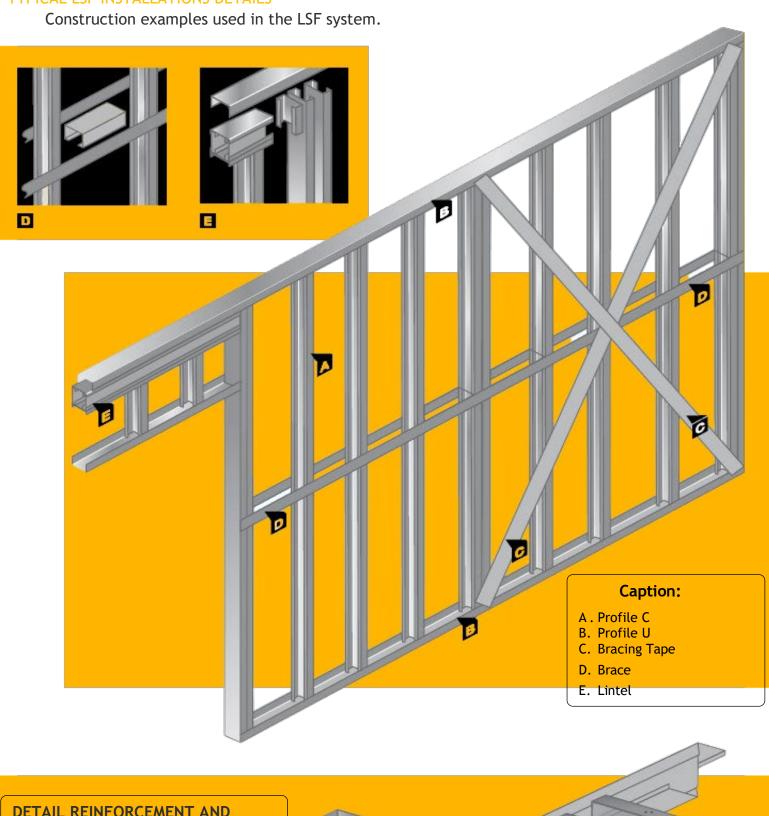
All parts of the LSF metal structure are interconnected by means of galvanized, self-drilling and self-tapping steel screws. The mechanical strength, galvanization and durability of these screws must be ensured.

REF:	DESCRIPTION	MEASURES	UN./CX
ACE01	SC2 Screw	4.2X30MM	1000
ACE02	SL4 Bolt	4.8X16MM	1000
ACE03	SD6 Bolt	5.5X22MM	500
ACE04	SD14 Screw	5.5X34MM	500
ACE05	SD6 Bolt	5.5X38MM	500
ACE06	SW3 Screw	6.5X50MM	250
ACE07	SC5 Bolt	5.5X38MM	1000
ACE08	SD6 Bolt	5.5X65MM	250
ACE09	Key for SL4	N.A.	1



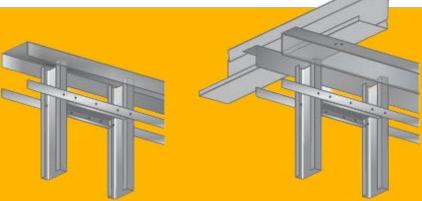
(Other measurements and references available.)

#### TYPICAL LSF INSTALLATIONS DETAILS

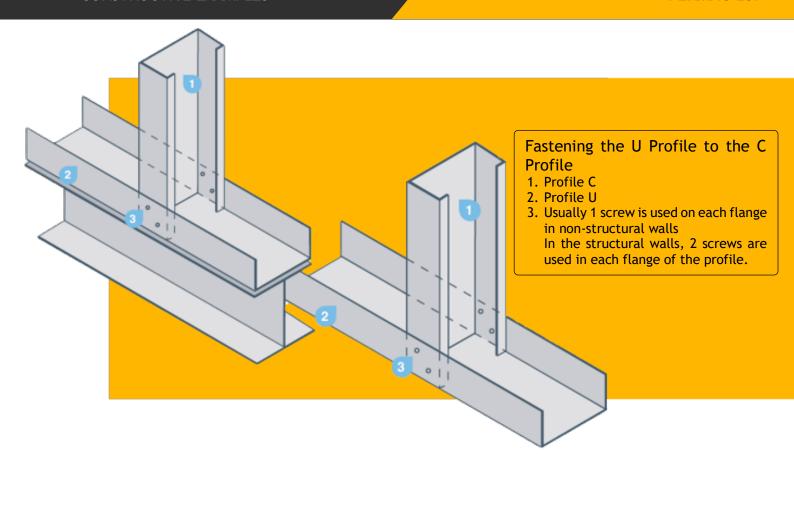


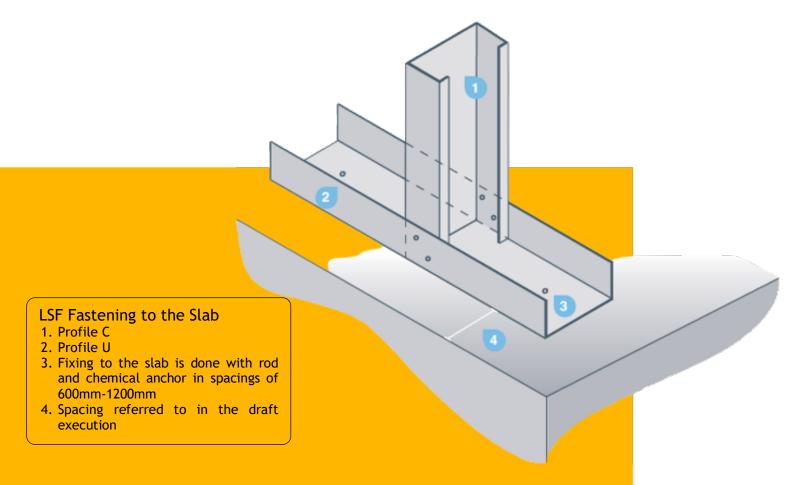
## DETAIL REINFORCEMENT AND BLOCKING:

It is necessary to make allowances within any LSF system for building movement. The design can provide a variety of details and components, including a reinforcement and locking detail and an eave detail to carry the LSF system.



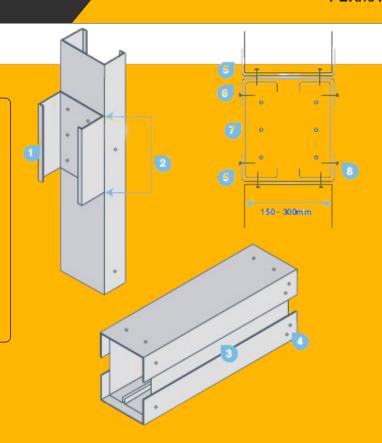
www.fermac.pt 4

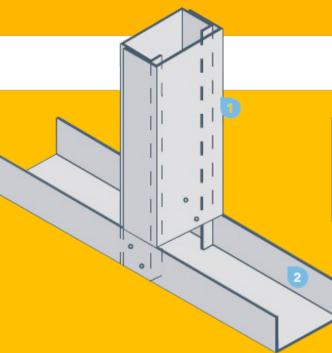




#### **Lintel LSF**

- 1.Short section refer to the project for the number of bolts
- 2. Equal to the depth of the back-to-back profiles on the lintel
- 3.C-sections should be cut to the flange depth of the short section
- 4.Added fixings after the lintel is positioned over the short section
- 5. Profile U
- 6.U profile (can be omitted in the technical drawing)
- 7. Opposing C Profiles



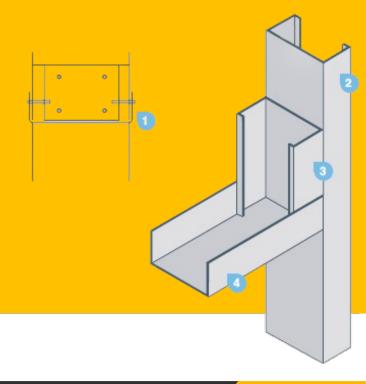


#### Composite Beam/Column

 Composite beam section, a U profile is used to reinforce the existing C profile, bolted between them.

#### Lintel - Shoulder pad

- 1. Profile U
- 2. Total height of the jamb
- 3. Minimum section of 150 mm fixed with 4 screws
- 4. U profile fixed with 2 screws on the flange to the C profile



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