Distribution Solutions
WireSolutions

ArcelorMittal

Steel fibres
TAB-House™

Advantages

WireSolutions is part of the ArcelorMittal Group, the number one steel company in the world. Major product lines of the unit are industrial wires (bright, galvanised, annealed, coppered, etc.), agricultural products (fencing, barbed wire, etc.), and steel fibres for concrete reinforcement.

WireSolutions has been producing steel fibres for over 30 years and is one of the leading suppliers of steel fibres worldwide. Through a local presence, WireSolutions aims to be closer to its customers to improve its service.

All the fibres manufactured by WireSolutions are made of cold drawn, high tensile steel wire produced using the most modern equipment. Our policy of continuous investment helps guarantee the durable performance of our products which are manufactured ISO 9001, ISO 14001 and OHSAS 18001 standards.

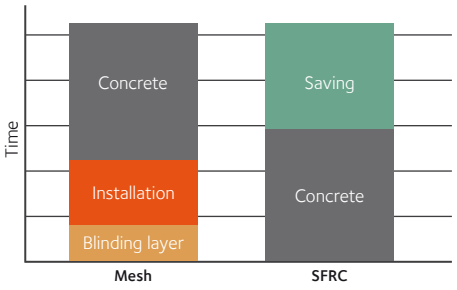
Transforming tomorrow.

TAB-House™

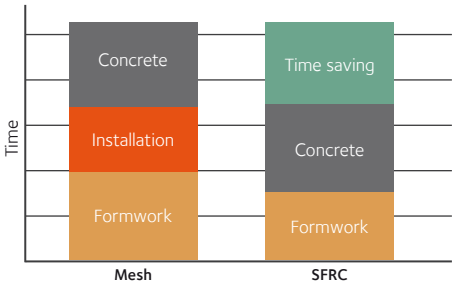
TAB-House™ is an ArcelorMittal system comprising of a number of different solutions, all using steel fibre reinforced concrete, to construct elements of a house. The use of this brochure is limited to residential construction up to 2 ½ storeys.

- Simplifies the construction process
- Huge time savings

Time saving with SFRC: Floors (Generic)

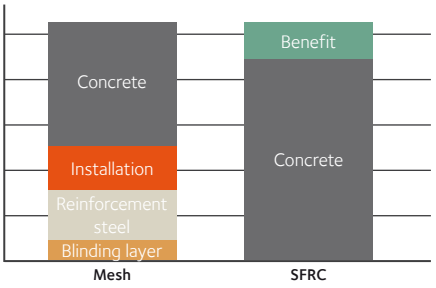


Time saving with SFRC: Walls (Generic)



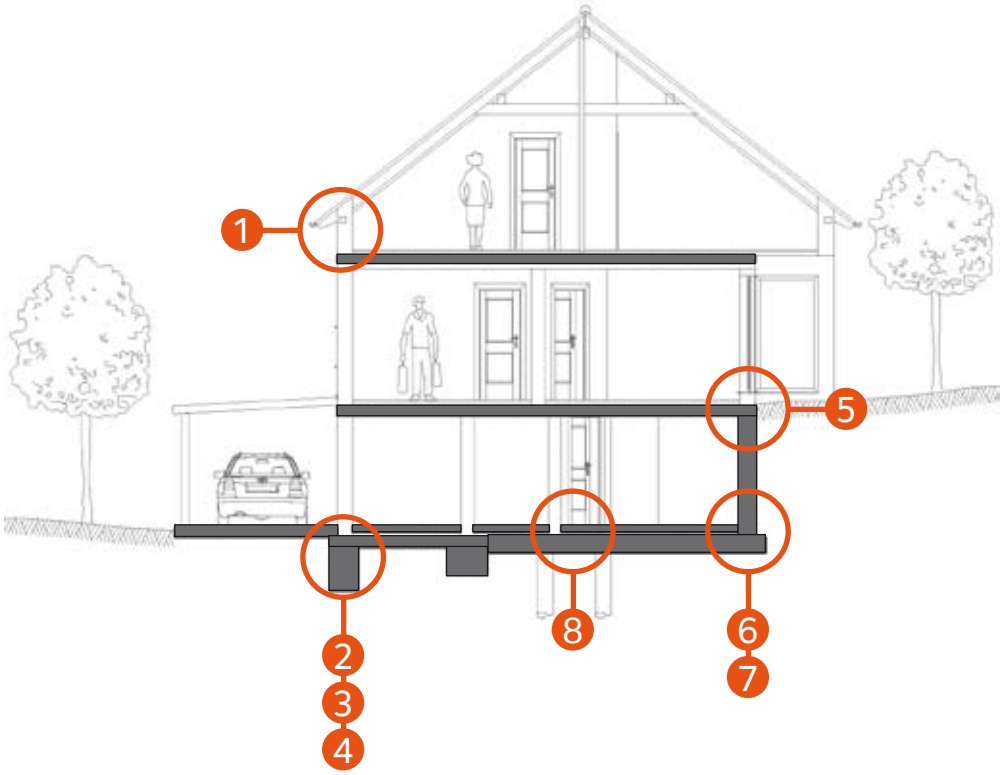
- Reduces costs

Cost-benefit relation SFRC (example)

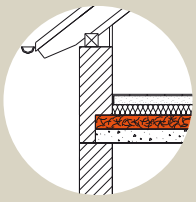


- Improved crack control
- Avoid reinforcement mistakes
- Enhanced edge protection

ArcelorMittal



1 Elevated slab (compressive layer for precast elements)



2 Screed toppings



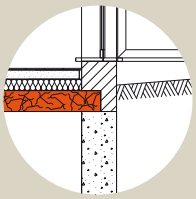
❸ Ground - slab



❹ Strip and point foundations



❺ In situ cast elevated slab (TAB-Slab™)



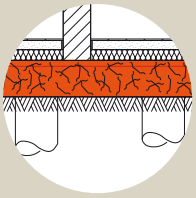
❻ Walls



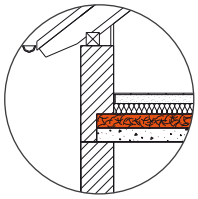
❼ Raft/Foundation plate (TAB-Raft™)



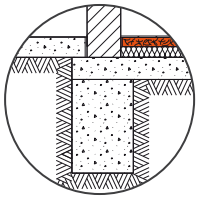
❽ Slabs on piles (TAB-Structural™)



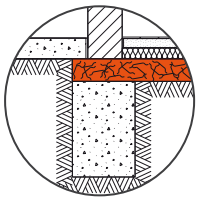
Elements and solutions



Elevated Slabs (compressive layer for precast elements)
For compressive layers and screeds cast over precast elements, steel fibres in the concrete provide an ideal form of crack control. Additional reinforcement may be required in areas where the precast elements are supported.

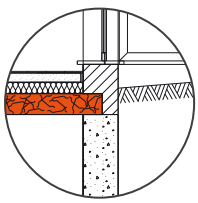


Screed toppings
The SFRC improves the shrinkage behaviour and the crack control of the screed toppings.



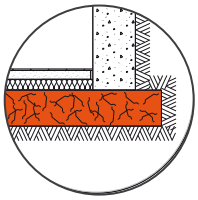
Ground - Slabs
Traditional reinforcement in the ground floor can be replaced completely. There is no need to place a blinding layer under the slab. Floor thickness can be reduced as there is no requirement for concrete cover. Under floor heating systems can be used with SFRC.

Strip and point foundations
Traditional reinforcement can be replaced. This is especially beneficial in cases where foundation lines change direction.

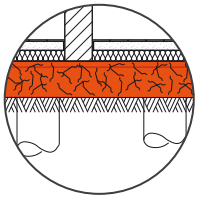


In situ cast elevated slabs (TAB-Slab™)
Steel fibre reinforced concrete can be used to construct a free suspended elevated floor slab. All traditional reinforcement is replaced by steel fibres. Steel fibre concrete can be easily pumped to the house upper floors.
*Please see our Structural brochure for more information.

Walls
Steel fibre reinforced concrete can be used to construct basement walls. The only traditional reinforcement required is connecting bars or meshes between the walls and the slab. Using SFRC reduces the set up-time before the concrete is poured.



Rafts/Foundation plates
The whole slab is designed as the foundation. In areas of high stress, local traditional reinforcement can be used in conjunction with SFRC.
*Please see our Structural brochure for more information.



Slabs on piles (TAB-Structural™)
In areas with poor ground conditions, SFRC can be used to construct a pile supported ground floor slab. A TAB-Structural™ slab can be constructed using only steel fibre concrete. No traditional reinforcement is required.
*Please see our Structural brochure for more information.

External areas
The ductile SFRC improves the durability of external areas (for instance freeze thaw -resistance).

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