



HD REBARFLEX

APPLICATIONS & BENEFITS

WHY REBARFLEX?

Rebarflex is more than a product — it's proof of what happens when real industry problems meet practical, customer-led innovation.



UK'S FIRST

Rebarflex is the UK's first fibreglass reinforcement mesh used for screed and concrete applications



SAFER

No sharp edges, no power tools, no heavy lifting, and drastically reduced injury risk



FASTER

Up to 85% quicker to install — saving time, labour, and cost



TESTED & CERTIFIED

Independently validated, CE & EAD approved, and backed by real-world trial data

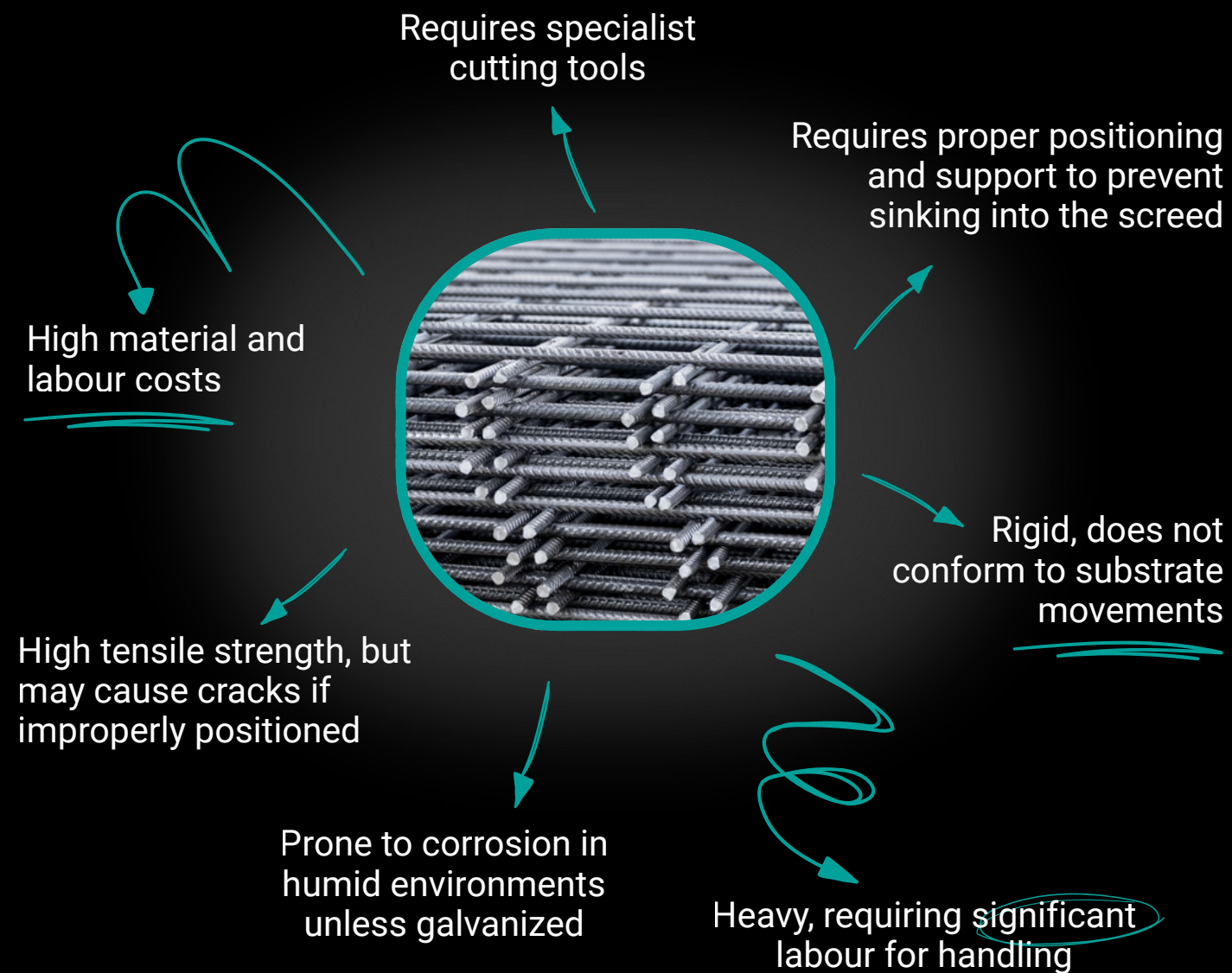
Rebarflex reflects Walther Strong's commitment to safer, smarter, and more efficient construction.

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STRONG®**

HD Rebarflex - 1M X 50M
[WS-REBARFLEX500G]

OUT WITH THE OLD, IN WITH THE NEW

STANDARD STEEL MESH VS. HD REBARFLEX



APPLICATION



NOTE: Ideal for low/medium thickness screeds (up to 100mm)

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LOW/MEDIUM THICKNESS SCREEDS & CONCRETE BASES

Step 1 - Substrate preparation

Ensure the base is ready for the concrete/screed pour. Ensure DPM is taped and ready for the screed or concrete pour.

Step 2 - Create bounds

Position the Rebarflex mesh so it will sit halfway through the total depth of the slab. This can be achieved by creating small mounds ('castles') of concrete at the mid-depth level. This is generally used at the start only but the mounds will support and hold the mesh in position.

Step 3 - Roll out HD Rebarflex

Unroll the mesh and lay it flat across the mounds so it sits midway through the slab. Continue pouring and levelling the rest of the screed or concrete around and over the mesh, ensuring it remains centred and fully embedded. If the mesh rises to the surface, the mix may be too wet. Just push the mesh so it sits at the mid-depth.

Step 4 - Overlap & mesh handling

- Overlap the mesh by at least 100mm on all sides and ends
- Do not lay the mesh across movement or expansion joints
- Ensure the mesh sits flat with no folds, bumps, or gaps

Step 5 - Apply the top layer of screed

- Screed must completely cover the mesh to avoid weakness and cracks
- Make sure the mesh remains roughly central or in the middle of the depth
- Level, compact, and finish as required

Step 6 - Curing

Allow screed to cure as per manufacturer's instructions (typically 7–28 days depending on type).

NOTE: Ideal for low/medium thickness screeds and concrete bases (up to 100mm)

RESIN DRIVEWAYS

Rebarflex mesh will dramatically increase the strength of the resin driveway sub-base. Install with 100mm overlap joints in line with the resin manufacturer's instructions.

Installers may use one or two layers of Rebarflex depending on the system specified. Always refer to the manufacturer's installation guidelines or call 01780 437222 for technical support.



IMPRINTED CONCRETE

Install Rebarflex halfway through the depth of the concrete. For example, with a 100mm thick slab, place the mesh at 50mm depth.

- Overlap the Rebarflex by 100mm
- Can be cut with a knife or scissors
- Unroll the Rebarflex mesh from the top to avoid the mesh from lifting

NOTE: Designed for use on concrete with a maximum thickness of 100mm



FIELD TRIALS AND FEEDBACK

FIELD TRIAL RESULTS:

85%

Decrease in labour time

62%

Reduction in cracks

50%

Reduction in
overall expenses

0

Injuries were reported
when using Rebarflex

INDEPENDENT STUDIES/RESEARCH:

Toughness and flexural strength

Concrete with steel mesh showed strong flexural and tensile performance in panel tests, confirming its structural reliability.

Source: Comparative Evaluation of Steel Mesh, Steel Fibre and High Performance Polypropylene Fibre-Reinforced Concrete in Panel/Beam Tests

Impact resistance

Hybrid mesh-and-fibre composites had greater impact resistance than steel mesh alone, improving durability under stress.

Source: Impact strength of Hybrid Steel Mesh-and-Fibre Reinforced Cementitious Composites

Corrosion resistance & Durability

GFRP offers long-term corrosion resistance and lower lifecycle costs for concrete reinforcement.

Source: Federal Highway Administration research

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NEED FURTHER SUPPORT?

TECHNICAL SUPPORT & GENERAL ENQUIRIES

Tel: 01780 437222

Email: enquiries@waltherstrongandco.com

SALES ENQUIRIES

Tel: 01780 43722

Email: sales@waltherstrongandco.com



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