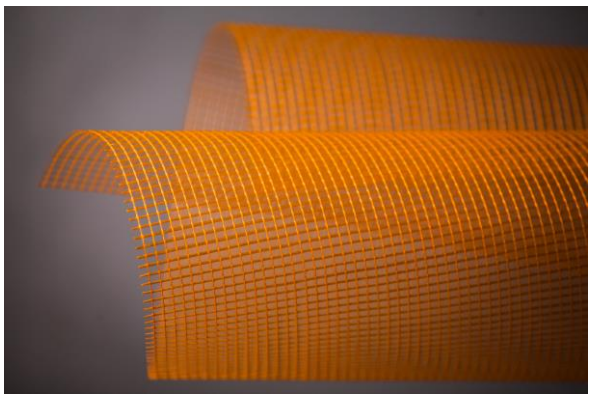
Technical Data Sheet
BENSTEN glass-fiber mesh
Reinforcement of plaster- and putty coatings



BENSTEN **glass-fiber mesh** refers to a warp-knit glass-fiber mesh inpregnated with an alkali-resistant polymer solution.

Typical application:

BENSTEN 140, BENSTEN 150, BENSTEN 160:

- ✓ reinforcement of plaster- and putty coatings during construction or repair of various-purpose buildings and facilities. BENSTEN 160/2000 is used in ETICS as well.

BENSTEN 320/3600

- ✓ reinforcement of plaster coatings during construction or repair of underground sections of buildings
- ✓ reinforcement of cement screed surfaces, which includes poured-in-place floors
- ✓ reinforcement of a brick work setting.

Physical and mechanical properties

Property	Unit	BENSTEN 140	BENSTEN 150	BENSTEN 160	BENSTEN 320
Surface weight	g/m²	140 (+10/-15%)	150 (+10/-15%)	160 (+10/-15%)	320 (+10/-15%)
Size of a square mesh side	mm	5x5 (±1)	5x5 (±1)	5x5 (±1)	11x11(±1)
Loss on ignition	%	⩾18			
Tensile strength in as-delivered state					
warp	N/5cm	⩾1400	⩾1800	⩾2000	⩾3600
weft	N/5cm	⩾1400	⩾1800	⩾2000	⩾3600
Tensile strength after conditioning in alkali solution for 24 hours (after a quick test)					
warp	N/5cm	⩾840	⩾1080	⩾1200	⩾2160
weft	N/5cm	⩾840	⩾1080	⩾1200	⩾2160
Tensile strength after conditioning in alkali solution for 28 days					
warp	N/5cm	⩾700	⩾900	⩾1000	⩾1800
weft	N/5cm	⩾700	⩾900	⩾1000	⩾1800

Manufacture of the material with other physical and mechanical properties is accepted upon agreeing about with a consumer.

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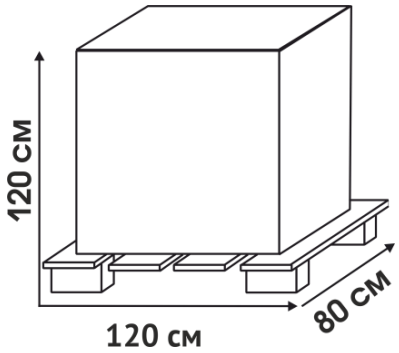
Advantages:

- ✓ preventing origination of cracks caused by changes in temperature or humidity and by physical impact
- ✓ equality in strength both warp-wise and weft-wise due to warp-knitting method of manufacturing, so that crack formation is prevented with equal force warp-wise and weft-wise, and delay in sensing tensile forces is excluded
- ✓ extended service life of buildings and facilities without renovation.

Packaging:

The mesh is shrink- or polyethylene film wrapped to be placed vertically in cardboard boxes.



Regulatory documents

- Technical specifications TU 5952-008-00205009-2015
- CE "Factory production control"

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