



A tubular fabric to aid grout retention in a range of widths and available in single and double thickness. Rolls are available in approximate 50 metres in length with an allowance for one join.

Single Knit	Approx Lay Flat Width
Grippa 7cm	7cm
Grippa 8cm	8cm
Grippa 9cm	9cm
Grippa 10cm	10cm
Grippa 12cm	12cm

Double Knit	Approx Lay Flat Width
Grippa 7cm	7cm
Grippa 8cm	8cm
Grippa 9cm	9cm
Grippa 10cm	10cm
Grippa 12cm	12cm

Please note information below is the result of lab based testing and any conclusions are deduced from these tests. Users must satisfy themselves regarding the suitability of this material for each individual project.

1. Product Configurations

- Single Fabric (S) 12cm layflat tested
- Double Fabric (D) 12cm layflat tested

2. Applicable Test Standards & Equipment

- Moisture Testing: GATS (Gravimetric Absorbency Testing System), 600 s saturation, 1396 Pa load
- Air Permeability: ASTM D737
- Thickness Under Load: Zwick/Roell 2.5 kN (Compression Mode)
- Tensile Properties: DIN EN ISO 13934-2 (Grab Method), 50 mm/min

- Elastic Recovery & Force Decay: DIN EN 14704-1, 60 s hold, Gauge Length 100 mm

3. Moisture Absorption & Transfer (600 s Saturation)

- S – Dry Mass: 1.0208 g
- S – Absolute Capacity: 2.2324 g H₂O
- S – Normalised Capacity: 2.1886 g H₂O/g
- S – Absorption Rate (5–80%): 0.00380 g/s
- D – Dry Mass: 2.0918 g
- D – Absolute Capacity: 3.421 g H₂O
- D – Normalised Capacity: 1.6366 g H₂O/g
- D – Absorption Rate (5–80%): 0.00542 g/s

Conclusion: Single fabric is more efficient at absorbing liquid with minimal material. Double fabric is better at holding a larger volume of liquid.

4. Air Permeability (ASTM D737)

- S – 2926 ± 30.72 mm/s
- D – 1266 ± 18.55 mm/s
- Reduction (D vs S): ~57%

Conclusion: Single fabric has higher air permeability and will generally support faster curing although care should be taken that rapid drying does not cause surface cracking. Double fabric promotes a slower moisture release.

5. Thickness Under Load (Circular Sample Ø120 mm)

- Applied Pressures: 2 kPa (22.62 N), 20 kPa (226.2 N), 80 kPa (900 N)
- S – 2 kPa: 0.83 ± 0.005 mm • S – 20 kPa: 0.42 ± 0.01 mm • S – 80 kPa: 0.03 ± 0.006 mm
- D – 2 kPa: 1.18 ± 0.009 mm • D – 20 kPa: 0.8 ± 0.006 mm • D – 80 kPa: 0.38 ± 0.006 mm

Conclusion: Single fabric may be beneficial where a low profile installation is required. Double fabric retains bulk under load and provides cushioning and load distribution.

6. Tensile Properties (DIN EN ISO 13934-2)

- S – MD: 43.80 ± 2.20 N | Elongation: 196.48 ± 10.28%
- S – CMD: 334.72 ± 7.02 N | Elongation: 68.47 ± 6.04%
- D – MD: 54.74 ± 5.11 N | Elongation: 230.50 ± 24.09%
- D – CMD: 572.41 ± 11.84 N | Elongation: 74.15 ± 7.72%

Conclusion: Single fabric conforms easily to irregular shapes and absorbs movement and can be beneficial for installation processes where movement, vibration or deformation is expected. Single fabric is not intended for high load bearing applications. Double fills this role with its strength and dimensional stability.

7. Elastic Recovery & Force Decay (DIN EN 14704-1)

- Strain Levels: MD 100% | CMD 20%
- Force Decay (MD): S ≈5–6% | D ≈5–6%
- Force Decay (CMD): S ≈15–16% | D ≈11–15%
- Permanent Elongation (All Samples): 0%
- Recovered Elongation (D): 100%

- Elastic Recovery (R): MD \approx 100% | CMD \approx 500%

8. Technical Performance Summary

- D provides higher absolute moisture absorption and tensile strength.
 - S provides higher mass-normalised absorption efficiency.
 - D significantly improves thickness retention and load-bearing capacity.
 - Both configurations exhibit complete elastic recovery within tested strain limits.
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