



For the Account of: Gabriel A/S
 Hjulmagervej 55
 9000 Aalborg Denmark

Client's Identification: Grain Col 61247

CERTIFICATE OF TESTING

TEST PERFORMED: Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam ASTM D4034-92

TEST RESULTS

| Specimen | Warp Yarn Slippage (lbf) | Type of Failure | Specimen | Fill Yarn Slippage (lbf) | Type of Failure |
|------------------|--------------------------|-----------------|------------------|--------------------------|-----------------|
| 1 | 146.0 | SB | 1 | 108.0 | SB |
| 2 | 144.0 | SB | 2 | 133.0 | SB |
| 3 | 142.0 | SB | 3 | 135.0 | SB |
| 4 | 137.0 | SB | 4 | 135.0 | SB |
| 5 | 140.0 | SB | 5 | 135.0 | SB |
| Avg. Warp | 142.0 | | Avg. Fill | 129.0 | |

ABBREVIATIONS USED

- SB** Seam broke before 1/4" slippage - Results should reflect this
- SS** 1/4" slippage occurred - Note: Actual slippage of yarns is visible
- FB** Fabric broke before 1/4" slippage - Note: Actual breakage is visible

NOTES

Equipment Used: Tinius Olson H5KT Universal Testing Machine
Seam Description:

| | |
|--------------------------|--|
| Seam Type | Standard Lockstitch |
| Stitches per Inch | 7 ± 0.5 stitches per inch |
| Needle Used | Size 22 NM: 140, 135x17 ball point needle |
| Thread | Nymo EX Bonded Nylon thread; 5x is used for the bobbin and 8x is used for the needle |

ACCEPTANCE CRITERIA

| | |
|------------------------|----------------------------|
| A.C.T. Standard | Acceptance Criteria |
| Upholstery | 25 lbs. Minimum |

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Authorized Signature

Date Order Completed: 02/28/2022