# Certificate of Calibration

Glenammer Sieves Ltd
62 Viewfield Road
Ayr
KA8 8HH
Tel: +44 (0)1292 261444
Email: sales@glenammer.com Web Site: www.glenammer.com

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|---|---|---|---|
| Customer: | Sample | Issued by: | Daniel Smith |
| Address: | Sample | Date of Issue: | 30/08/2023 |
| | Sample | Certificate No.: | CC-0157 |
| | Sample | Calibration Technician: | Daniel Smith |
| | Sample | Date of Test: | 30/08/2023 |
| | Sample | Test Temperature: | 20.0 °C ± 2.0 °C |
| Sieve: | 300 Dia. x 25.00mm p/p Sieve | Test Type: | Optical |
| Condition: | New | Test Method: | Crosswise Spot Check |
| Serial No.: | 23081480 | Expanded Uncertainty: | 0.004 mm |
| Specification: | BS ISO 3310-2:2013 | Approved Signatory: | Daniel Smith |
| Lab Location: | Glenammer (see above) | Signature: | |

## Results

| Parameters | Measured Values (1) | | Standard Tolerances (2) | Decision |
|---|---|---|---|---|
| | Warp | Weft | | |
| Maximum size (3) | 25.022 mm | 25.010 mm | ≤ $w^{a}$ (8) + 0.350 mm | Accepted |
| Minimum size (4) | 24.967 mm | 24.974 mm | ≥ $w^{a}$ (8) - 0.350 mm | Accepted |
| Measured holes (5) | 35 | 35 | ≥ All or 50 | Accepted |
| Maximum pitch (6) | 31.536 mm | 31.510 mm | ≤ 36.000 mm | Accepted |
| Minimum pitch (7) | 31.411 mm | 31.476 mm | ≥ 28.500 mm | Accepted |

(1) Values are measured in two orthogonal directions labelled warp and weft.
(2) Tolerances according to BS ISO 3310-2:2013.
(3) Maximum value measured for hole size.
(4) Minimum value measured for hole size.
(5) Total number of holes measured.
(6) Maximum value measured for pitch.
(7) Minimum value measured for pitch.
(8) Nominal hole size.

## Decision Rule:

To account for measurement uncertainty, we constrain the measured values that can be considered acceptable to only values which fall within the acceptance interval for each measurement. The difference between the acceptance interval and the standard tolerances provided by BS ISO 3310-2:2013 is equal to the expanded uncertainty of measurement reported on this certificate. All measured values in this certificate have a single sided acceptance interval. The number of measured holes does not have and associated measurement uncertainty. It is evaluated using a single sided acceptance interval which is equal to the standard tolerances. If all results are accepted, then the sieve is accepted as conforming to the specification.
Based on the above results the sieve identified above is **Accepted** as conforming to BS ISO 3310-2:2013

## Calibration Methods:

The calibration of this sieve has been carried out in accordance with the procedures documented in BS ISO 3310-2:2013 using the Optical method. The sieve was sampled using the Crosswise Spot Check method. All test equipment used in this calibration is calibrated and traceable to a UKAS accredited laboratory.

**Uncertainty of Measurement:**

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2 which for a normal distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

The results shown only relate to the item identified on this certificate.

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**End of Report.**