



Date of test 14.12.2021
Date of expiry 14.12.2024
Number of pages 3 B / B

Test Certificate No. 12260.1/21-12

This Certificate is only valid when printed in colour and complete with all 3 pages.

Applicant Raficon Trade SRL
Aleea Industriilor Nr. 2, 120068, Buzau, Romania

Test pieces *Flexible Intermediate Bulk Container - SWL = 1500 kg, SF = 5:1*
Single trip FIBC for non-dangerous goods acc. ISO 21898

Design

Manufacturer's type designation	N/A		
Dimensions	(95 cm x 95 cm) x 120 cm	Volume	1200 litres
Tare	1720 g		
Body fabric	Polypropylene 180 g/m ² , uncoated ¹⁾ , white flat woven fabric layers without coloured characterization		
Suspension	Four white PP-webbings (100 mm wide, 54 g/m), sewn into the vertical seams in a length of 40 cm / 115 cm, the webbings are folded and fixed by a seam		
Details	Four vertical seams, two horizontal seams at the bottom (U-panel design) / overlock + chain stitching / fabric folded in all the seams / open top ²⁾ / top surrounded by a PP-webbing (30 mm wide, 20 g/m) / no inliner / no discharge spout ²⁾		

Kind of tests *Type Tests according to ISO 21898*

Test a Cyclic top lift test acc. Annex B **Test b** Compression test acc. Annex C

Test conditions Charging with plastic granules (filling height approx. 115 cm), load application with piston and pressure plate (d = 90 cm), rate of load application 70 kN/min.

Cyclic load and load to failure **Sample a** After 30 cycles of load application to $P_c = 30$ kN (3160 kg) no visible damages occurred in the test piece. The load has then been increased until failure. When reaching a load of $P_b = 90,1$ kN (9180 kg) the fabric tore at a bottom seam.

Compression **Sample b** After six hours compression by $P_k = 60$ kN (6120 kg) no visible damages occurred in the test piece.

Test result *A safe working load SWL = 1500 kg / SF = 5:1 is allowable.*

Statement of conformity The FIBCs tested comply with the requirements of ISO 21898. FIBCs of this design type are in a condition for safe operation.

Notes **This certificate is restricted to FIBCs produced by Raficon Trade SRL.**
All material weights are minimum weights and may not be lower than the values shown.
Test diagram and photo of a test piece see page 2. This certificate expires on 14.12.2024.
¹⁾ Raw material: Pure virgin polypropylene (statement of the manufacturer)
²⁾ "Directions for use referring to this certificate" see page 3.

Competent Engineer

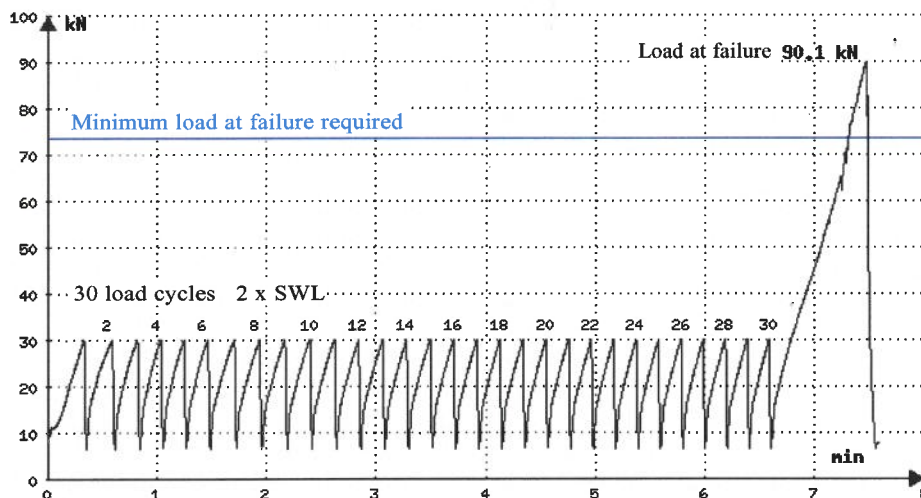

Jorg Bartel



Head of Institute


Dr. Herbert Kielbassa

FIBC cyclic top lift test - test diagram 12260.1/21 - 12



Project data

Applicant : Raficon Trade SRL
Test piece : FIBC 95 cm x 95 cm x 120 cm
Safe working load : SWL = 1500 kg
Safety factor : SF = 5 : 1

Test data

Test date : 14.12.2021
Test Standard : ISO 21898
Load at failure : Pb = 90,1 kN = 9180 kg



Directions for use referring to this certificate

This certificate covers FIBCs of like design, manufactured using like materials and methods of construction as set down in this certificate and showing dimensions as listed below and in the certificate. The use of other methods or components may render the certificate invalid. It is the responsibility of FIBC manufacturers to ensure the samples tested are representative of the production.

Allowed (covered by this certificate)	Not allowed (not covered by this certificate)
	Base with discharge spout
Base dimensions of between 95 cm x 95 cm and 105 cm x 105 cm provided the same geometry is maintained	Base dimensions smaller than 95 cm x 95 cm Base dimensions larger than 105 cm x 105 cm
Bag height 120 ± 2 cm	Bag heights diverging from 120 ± 2 cm
Use for one filling and one discharge only	Re-use of the FIBCs
Open top or any other design of top construction	Manufacture after expiry date of this certificate: 14.12.2024

Label

All FIBCs shall be durably marked by means of a permanently attached and easily visible and readable label. The layout of the label referring to this certificate shall be as shown below with the following data:

Manufacturer's Name & Address and Logo Manufacturer's Reference (unique to the hereby certified FIBC type)	
SWL 1500 kg	Safety Factor 5 : 1
Your logos etc.	Test Certificate No 12260.1/21-12
	Test Certificate Date 14.12.2021
	Approved Laboratory LABORDATA
	Test Standard ISO 21898
	FIBC Class Single trip
	Date FIBC manufactured
Handling Recommendations / Pictograms (proposals see www.labordata.com)	
Supplier's Name & Address (if required)	