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TECHNICAL REPORT

Trifibre Ltd 17 Boston Road Gorse Hill Industrial Estate LE4 1AW United Kingdom	SATRA reference:	FUR2005088	
		2418	1
	Report ID/Issue number:	40612/3	
	Your reference:		
	Date samples received:		
	Date(s) work carried out:	28/05/2024 to 05/06/2024	
	Date of report:	07/06/2024	

Testing Requirements

Testing of a mounting step, described by the customer as the '3 Tier Circular Equestrian Mounting Step' to bespoke vertical load testing

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Report Signed by:

Johnny Worthington

Report Signatory

ASSESSMENT OF THE 3 TIER CIRCULAR EQUESTRIAN MOUNTING STEP

As requested by Trifibre Ltd, SATRA have assessed a mounting step submitted as detailed below.

SAMPLE SUBMITTED

Sample references: '3 Tier Circular Equestrian Mounting Step'
Testing conducted by: M. Evans

TESTS CARRIED OUT

Static Load Testing, to a maximum user weight of 320kg, to each of the 3 steps, tested seperately.

CONCLUSION

The '3 Tier Circular Equestrian Mounting Step', submitted for testing by Trifibre Ltd, has successfully completed the static load testing, and is therefore considered suitable for a maximum user weight of 3136N (320kg).

RESULTS

3 TIER CIRCULAR EQUESTRIAN MOUNTING STEP

BOTTOM STEP

Load (Newtons)	Equivalent Mass (Kg)	Cycles	Hold Time (Seconds)	Result
2548	260	10	10	No damage
2646	270	10	10	No damage
2733	280	10	10	No damage
2842	290	10	10	No damage
2940	300	10	10	No damage
3038	310	10	10	No damage
3136	320	10	10	No damage

MIDDLE STEP

Load (Newtons)	Equivalent Mass (Kg)	Cycles	Hold Time (Seconds)	Result
2548	260	10	10	No damage
2646	270	10	10	No damage
2733	280	10	10	No damage
2842	290	10	10	No damage
2940	300	10	10	No damage
3038	310	10	10	No damage
3136	320	10	10	No damage

TOP STEP

Load (Newtons)	Equivalent Mass (Kg)	Cycles	Hold Time (Seconds)	Result
2548	260	10	10	No damage
2646	270	10	10	No damage
2733	280	10	10	No damage
2842	290	10	10	No damage
2940	300	10	10	No damage
3038	310	10	10	No damage
3136	320	10	10	No damage

COMMENTS

Note 1: The vertical load was increased from 260kg to 320kg with 10 cycles at each increment with a hold time of 10 seconds. The force was applied using the 100mm diameter wooden pad.
After testing the deflection of the steps was observed (see photographs 4 to 9). However, after 24 hours 'resting period' the deflection appears to be reduced.

Photo 1: Front view of the '3 Tier Circular Equestrian Mounting Step'

Photo 2: Front view of the '3 Tier Circular Equestrian Mounting Step'

Photo 3: Side view of the '3 Tier Circular Equestrian Mounting Step'

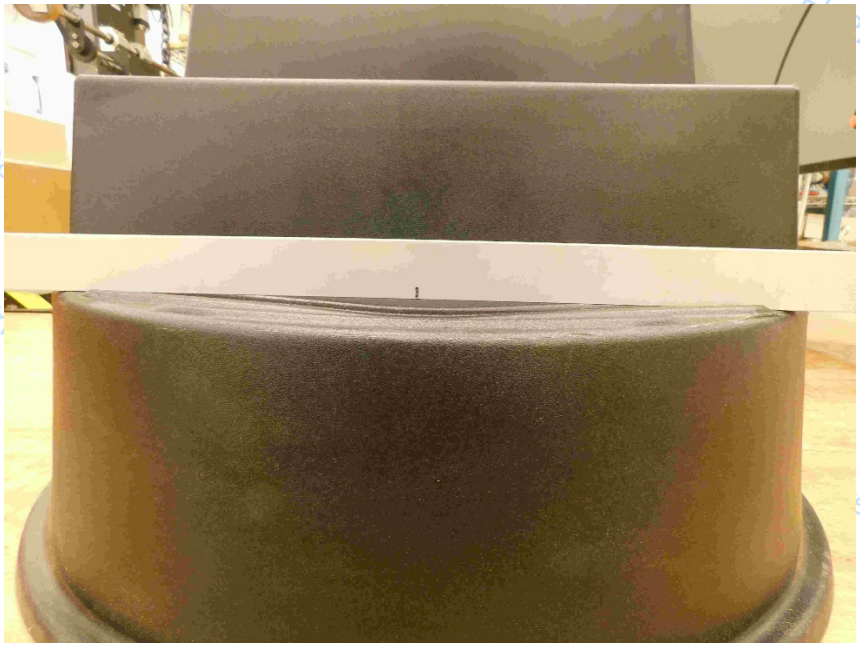

Photo 4: Bottom step after test

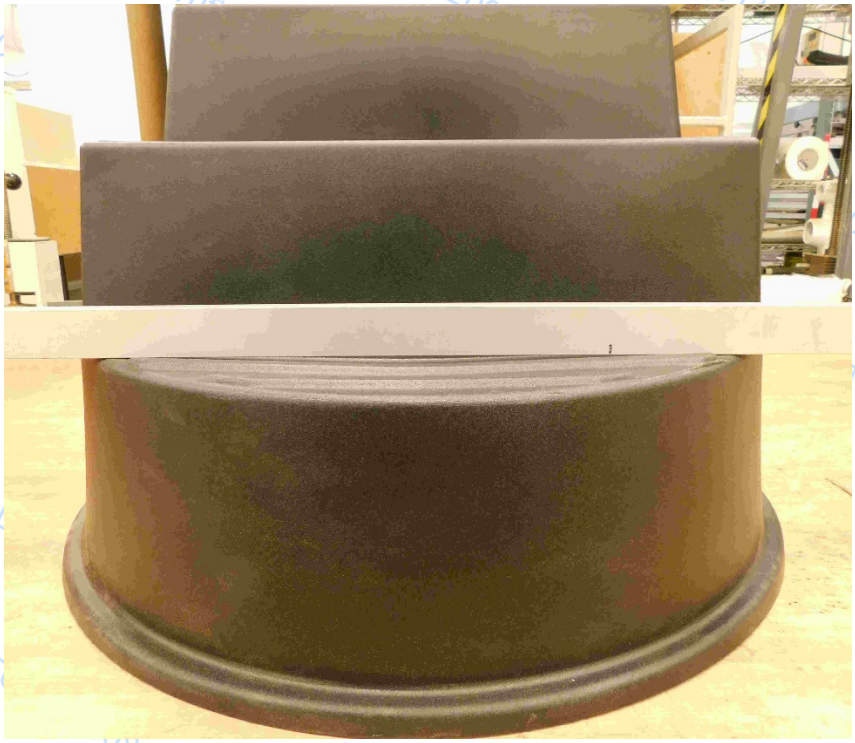

Photo 5: Bottom step after 24 hours rest

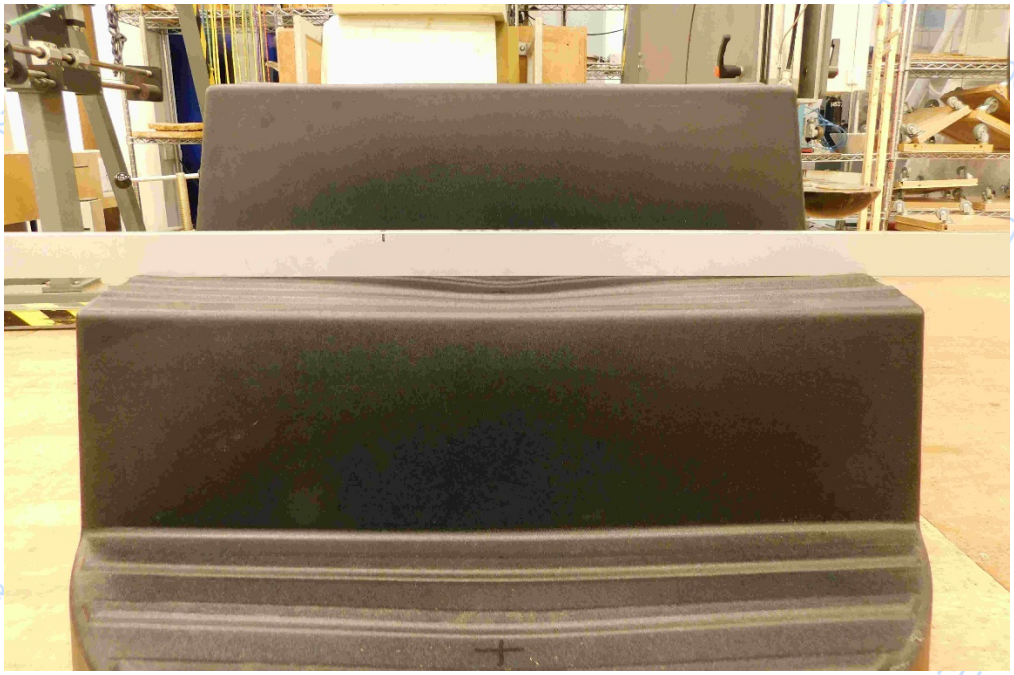

Photo 6: Middle step after test

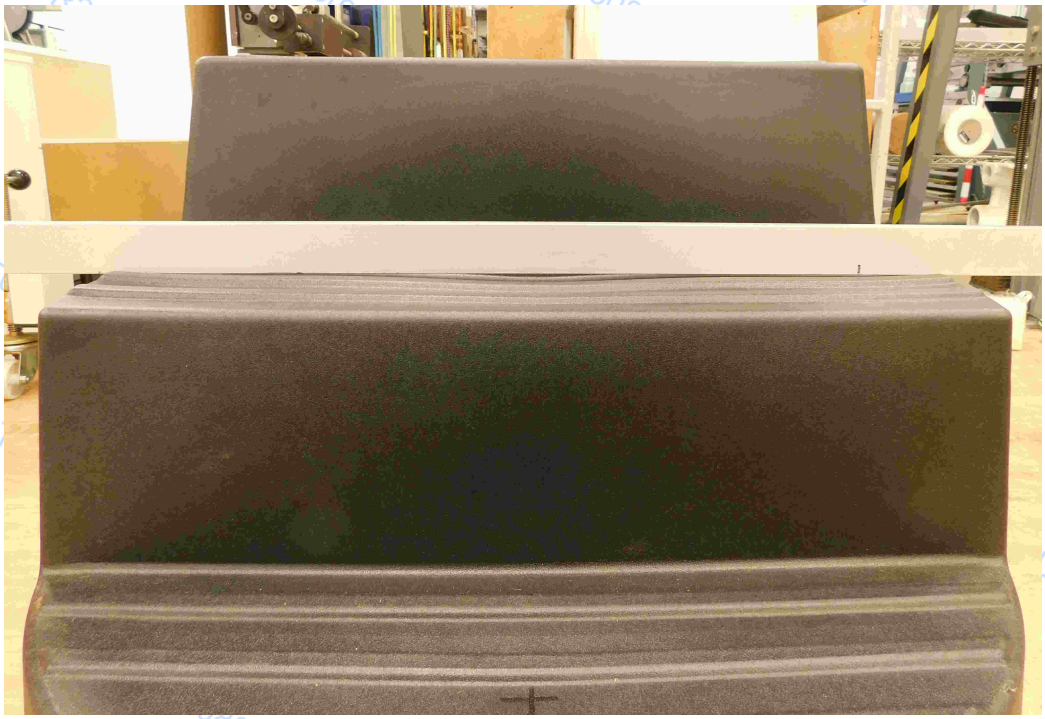

Photo 7: Middle step after 24 hours rest

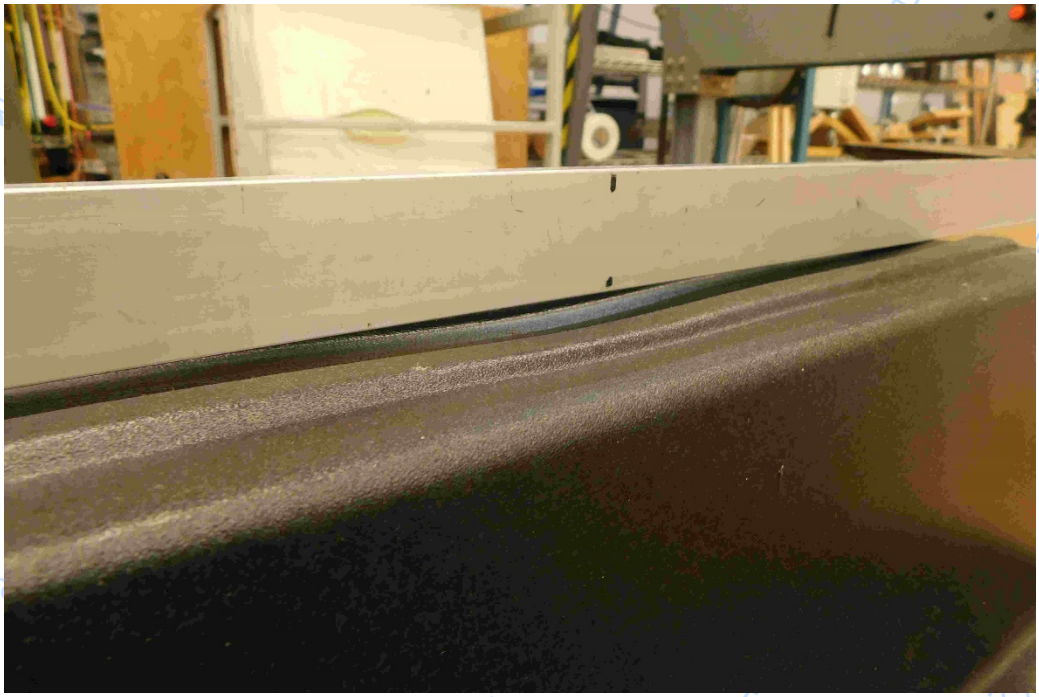

Photo 8: Top step after test

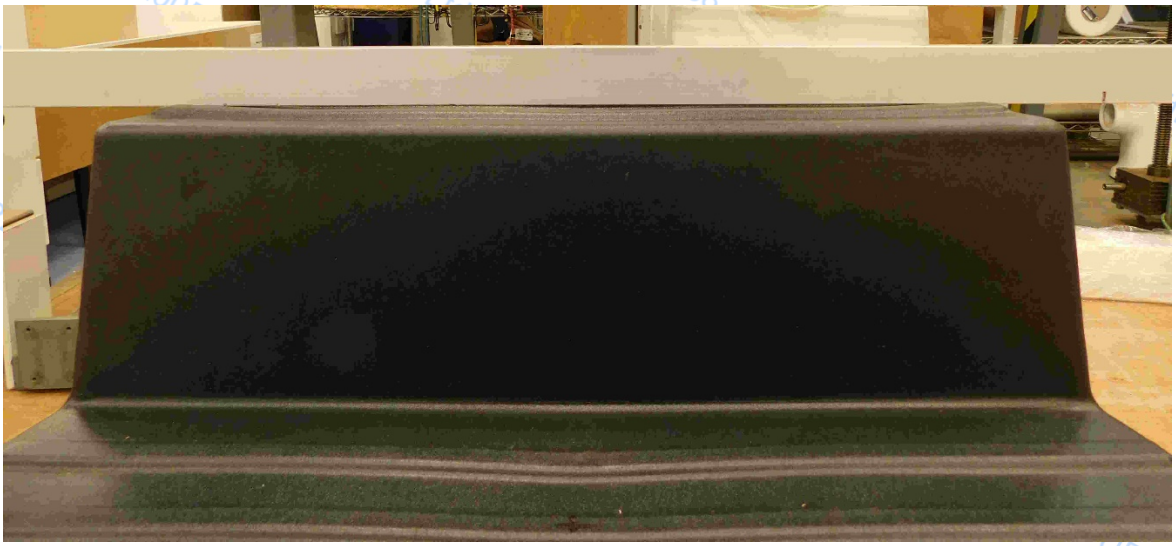

Photo 7: Top step after 24 hours rest

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