TEST CONCLUSIONS

Samples of:
Manufacturer
Product Hinges
Model SOX ATOM
Size 102mm x 76mm x 3mm
have been tested in accordance with:
BSEN 1935:2002 (Building hardware – Single-axis hinges)
by Element Materials Technology [a UKAS accredited Testing Laboratory (No. 0621)
At Unit 3 Wednesbury One, Black Country New Road, Wednesbury, WS10 7NZ
Results as detailed below:

CLAUSE NO	DESCRIPTION	COMPLIANCE
5.1 / 6.4 / 7.1.2	Initial measurements	Yes
5.2.1 / 7.3.2	Load deformation test	Yes
5.2.2 / 7.3.3	Overload test	Yes
5.3 / 7.4	Shear strength	Yes
5.4 / 7.5	Endurance test	Yes
5.5 / 7.1.5	Corrosion resistance	Yes
5.6 / Annex B	Extra requirements for Fire-resistant doors	Yes
5.7 / Annex C	Extra requirements for burglary-resistant doors	N/a
5.8	Families of hinges	N/a
8	Marking	Yes

Classification

Model No.	Category of duty	Number of test cycles	Test door mass	Fire resistance	Safety	Corrosion resistance	Security	Hinge grade
ATOM	4	7	6	1	1	4	0	13

No inferences can be made regarding performance against other requirements of this standard

NOTE.

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.
Tests marked "NA" are not applicable to the type of device under test.
Tests marked "NT" not be applied to the device under test.

TEST DETAILS

Test specification	BS EN 1935:2002 Building Hardware- Single Axis Hinges
Test Reference Nos	WIL 507794
Date sample received	16/08/2021
Date test started	19/08/2021
Date test completed	13/09/2021
Class and/or Category	Grade 13
Special Test requirements	None
Other reports to be used in conjunction with this report	WF 375207 Iss 3

STANDARD REQUIREMENTS

Test Door Mass For :-	Grade 13 - 120Kg Mass
Load Deformation Test	Grade 13 - 240Kg Mass
Overload Test	Grade 13 - 360Kg Mass
Endurance Test	120Kg
Shear Test	Grade 13 - 10.0KN
Endurance Test Cycles	Grade 7 - 200,000 Cycles (DOORS)
Corrosion Resistance Grade	Grade 4 - 240 Hours (Very High Resistance)