

DIN EN 13126-6:2018-10 (E)

Building hardware - Hardware for windows and door height windows - Requirements and test methods - Part 6: Variable geometry stay hinges (with or without a friction stay)

Contents	Page
European foreword.....	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Classification.....	7
4.1 General.....	7
4.2 Durability (1 - first box)	8
4.3 Mass (2 - second box)	8
4.4 Corrosion resistance (3 - third box)	8
4.5 Test sizes (4 - fourth box)	8
4.6 Application (5 - fifth box)	10
4.7 Example of classification for variable/parallel geometry stay hinges	10
5 Requirements	10
5.1 Dangerous substances.....	10
5.2 Integrated restrictors	11
5.3 Durability	11
5.4 Pull-in and pull-in abuse test.....	11
5.5 Parallelism test	11
5.6 Friction test (where applicable)	11
5.7 Obstructed track test	12
5.8 Ease of sash movement test.....	12
5.9 Durability test.....	12
5.10 Simulated negative pressure test.....	13
5.11 Static load test	13
5.12 Additional load test	14
5.13 Corrosion resistance	14
6 Test equipment and preparation for the test	14
6.1 Test-rig.....	14
6.2 Specimen	14
6.3 Mounting of specimen	15
6.4 Additional equipment.....	15
6.4.1 Block for pull-in abuse test.....	15
6.4.2 Steel cross for simulated negative pressure test.....	15
7 Test procedures	15
7.1 Samples.....	15
7.2 General.....	15
7.3 Adjusting the sash-mass	16
7.4 Lubrication and adjustment of hardware	16
7.5 Pull-in test.....	16
7.5.1 General.....	16
7.5.2 Pull-in test procedure.....	16
7.5.3 Acceptance criteria.....	16
7.6 Friction test	17
7.6.1 General.....	17

7.6.2	Friction test procedure.....	17
7.6.3	Acceptance criteria	17
7.7	Obstructed track test.....	17
7.7.1	Procedure – side hung and top hung windows	17
7.7.2	Procedure – parallel opening windows	18
7.7.3	Acceptance criteria	18
7.8	Pull-in abuse test	18
7.8.1	General	18
7.8.2	Procedure – pull-in abuse test	18
7.8.3	Acceptance criteria	19
7.9	Ease of sash movement test	19
7.9.1	Procedure – side and top hung opening windows	19
7.9.2	Procedure – parallel opening windows	19
7.9.3	Acceptance criteria	19
7.10	Durability test.....	20
7.10.1	Procedure – top hung and side hung windows	20
7.10.2	Procedure – parallel opening windows	20
7.10.3	Cycles.....	20
7.10.4	Egress easy clean side hung windows.....	20
7.10.5	Acceptance criteria	20
7.11	Simulated negative pressure test (excluding parallel windows).....	21
7.11.1	Procedure	21
7.11.2	Acceptance criteria	21
7.12	Static load test procedure.....	21
7.12.1	Procedure	21
7.12.2	Acceptance criteria	22
7.13	Additional load test.....	22
7.13.1	Procedure.....	22
7.13.2	Acceptance criteria	22
7.14	Parallelism test.....	22
7.14.1	Procedure – closed position.....	22
7.14.2	Procedure – open position	22
7.14.3	Acceptance criteria	22
7.15	Corrosion resistance.....	23
8	Marking.....	23
Annex A (informative)	Types of variable/parallel geometry stay hinges.....	24
Annex B (informative)	Test method diagrams.....	26
Annex C (informative)	Flow chart of test procedures.....	34
Annex D (informative)	Window types	36
Bibliography	40