



Construction Products Regulation 2011  
DECLARATION OF PERFORMANCE

**No. DOP-SHL-DC82**

1. Unique identification code of the product-type:  
**S4014 series Floor Springs**
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:  
**S4014 series Floor Springs**
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:  
**For use on fire and smoke compartmentation doors when fitted in accordance with the manufacturers fitting instructions**
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):  
**Synergy Hardware Ltd. Unit 2 Heath Mill Business Centre, Heath Mill Road, Wombourne, Wolverhampton, WV5 8AP.**
5. Where applicable name and contact address the authorised representative whose mandate covers the task specified in Article 12(2):  
**N/A**
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:  
**System 1**
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:  
**EN 1154: 1996 A1:2002 Notified certification body No.1121 performed the type testing and issued test reports**
8. European Technical Assessment:  
**N/A**

9. Declared Performance, Single Action, Floor Mounted

Essential Characteristics Self-Closing	Performance	Harmonised Technical Specification
5.2.1 General		EN 1154: 1996/A1:2002/AC:2006
Application (Floor Spring)	Single Action, Floor Mounted	
5.2.2 Durability	500,000 test cycles	
5.2.4 Closing Moment	Pass size 1 to 4	
5.2.4 Opening Moment	Pass size 1 to 4	
5.2.5 Efficiency	>50% size 1 >60% size 4	
5.2.6 Closing Time	Pass After 5k and 500k test cycles the closing time from an opening angle of 90° was capable of adjustment to 3s or less, and 20s or more - After 500K test cycles, the closing time set at 5K test cycles did not increase by more than 100%, or decrease by more than 30%	
5.2.7 Angles of Operation	Grade 3, >105°	
5.2.8 Overload Performance	Pass The closer withstood the closing overload tests	
5.2.9 Temperature Dependence	-15°C to +40°C	
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.1.12 Latch Control	Pass	
5.2.13 Backcheck	N/A	
5.2.14 Delayed Closing	N/A	
5.1.15 Adjustable Closing Force	Pass	
5.2.16 Zero Position (Double action only)	N/A	
5.2.18 Fire / Smoke Doors	Pass	

Essential Characteristics Durability of Self-closing	Performance	Harmonised Technical support
5.2.2 Durability	500,000 Test cycles	EN 1154: 1996/A1:2002/AC:2006
5.2.17.1 Corrosion	Grade 4 (240 hours)	
5.2.17.2 Corrosion	Pass After the salt spray test, the closing moment of the door was not less than 80% of that measured prior to the test.	
Dangerous Substances Annex ZA3	The materials in the product(s) do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

9. Declared Performance, Double Action, Floor Mounted

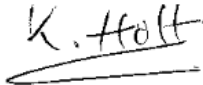
Essential Characteristics Self-Closing	Performance	Harmonised Technical Specification
5.2.1 General		EN 1154: 1996/A1:2002/AC:2006
Application (Floor Spring)	Double Action, Floor Mounted	
5.2.2 Durability	500,000 test cycles	
5.2.4 Closing Moment	Pass size 1 to 4	
5.2.4 Opening Moment	Pass size 1 to 4	
5.2.5 Efficiency	>50% size 1 >60% size 4	
5.2.6 Closing Time	Pass After 5k and 500k test cycles the closing time from an opening angle of 90° was capable of adjustment to 3 s or less, and 20 s or more - After 500K test cycles, the closing time set at 5K test cycles did not increase by more than 100%, or decrease by more than 30%	
5.2.7 Angles of Operation	Grade 3, 105°	
5.2.8 Overload Performance	Pass The closer withstood the closing overload tests	
5.2.9 Temperature Dependence	-15°C to +40°C	
5.2.10 Fluid leakage	Pass	
5.2.11 Damage	Pass	
5.1.12 Latch Control	Pass	
5.2.13 Backcheck	N/A	
5.2.14 Delayed Closing	N/A	
5.1.15 Adjustable Closing Force	Pass	
5.2.16 Zero Position (Double action only)	Pass	
5.2.18 Fire / Smoke Doors	Pass	

Essential Characteristics Durability of Self-closing	Performance	Harmonised Technical support
5.2.2 Durability	500,000 Test cycles	EN 1154: 1996/A1:2002/AC:2006
5.2.17.1 Corrosion	Grade 4 (240 hours)	
5.2.17.2 Corrosion	Pass After the salt spray test, the closing moment of the door was not less than 80% of that measured prior to the test.	
Dangerous Substances Annex ZA3	The materials in the product(s) do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on the behalf of the manufacturer:

A handwritten signature in black ink that reads "K. Holt". The signature is written in a cursive style and is underlined with a single horizontal line.

Mr Keith Holt  
Director  
Date of Issue: 07/11/16

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