

# **TECHNICAL REPORT**

Technical evaluation of Vertical Retractable Walls according to DIN 18032-3. Skyfold systems by Railtech.

Report Number R14504CAN-A1

Client Jack Zagorski P.Eng RAILTECH Ltd. 325 LEE AVENUE MONTRÉAL, QUÉBEC CANADA H9X 3S3

Date November 13<sup>th</sup> 2014



SKYFOLD

ALL 55 MODELS





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Skyfold systems by Railtech.

#### **DESCRIPTION OF THE PRODUCT TESTED**

Description of the product tested	VERTICAL RETRACTABLE WALLS		
	I-PANEL FOR STC 48 TO STC 50 (Rw 47 TO Rw 49) AND NR SKYFOLD SYSTEMS.		
Name of the products	II-PANEL FOR STC 51 TO STC 55 (Rw 51 TO Rw 54) SKYFOLD SYSTEMS		
	III-PANEL FOR STC 56 TO STC 60 (Rw 56 TO Rw 59) Skyfold Systems.		
Date of the tests	NOVEMBER 2014		

### **REPORTED BY:**

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Mickaël Benetti, T.P. (Lab Manager) - Writer

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Report number	R14504CAN-A1	Dege 2 / 4
Date	November 13th 2014	Page 2 / 4

## Technical evaluation of Vertical Retractable Walls according to DIN 18032-3. Skyfold systems by Railtech.



### **I-SCOPE OF WORK**

Labosport has been commissioned by Railtech (Jack Zagorski) to carry out ball impact resistance testing on vertical retractable walls.

### **II-TECHNICAL DATASHEETS**

This information has been provided only for Labosport's records.

### III-RESULTS - I-PANEL FOR STC 48 TO STC 50 (RW 47 TO RW 49) AND NR SKYFOLD SYSTEMS.

Property	Test method	Test	Inspection	Results	Class according EN 13964
	Ceiling*	The strength, function, and safety of the ceiling not adversely affected.	Pass	1A	
Ball impact	DIN 18032-		Appearance not changed to any great degree.	Pass	1A
resistance	Part 3	Wall*	The strength, function, and safety of the wall not adversely affected.	Pass	1A
			Appearance not changed to any great degree.	Pass	1A

Report number	R14504CAN-A1	Dege 2 / 4
Date	November 13th 2014	Page 3 / 4



Skyfold systems by Railtech.

### IV-RESULTS – II - PANEL FOR STC 51 TO STC 55 (RW 51 TO RW 54) SKYFOLD SYSTEMS

Property	Test method	Test	Inspection	Results	Class according EN 13964
	Ceiling*	The strength, function, and safety of the ceiling not adversely affected.	Pass	1A	
Ball impact	DIN 18032-		Appearance not changed to any great degree.	Pass	1A
resistance	Part 3	Wall*	The strength, function, and safety of the wall not adversely affected.	Pass	1A
			Appearance not changed to any great degree.	Pass	1A

### V-RESULTS – III - PANEL FOR STC 56 TO STC 60 (RW 56 TO RW 59) SKYFOLD SYSTEMS.

Property	Test method	Test	Inspection	Results	Class according EN 13964
		Ceiling*	The strength, function, and safety of the ceiling not adversely affected.	Pass	1A
Ball impact	DIN 18032-		Appearance not changed to any great degree.	Pass	1A
resistance	Part 3	Wall*	The strength, function, and safety of the wall not adversely affected.	Pass	1A
			Appearance not changed to any great degree.	Pass	1A

#### \*Ceiling

A handball is thrown 36 times against the test ceiling at a velocity of  $16.5 \pm 0.8$  m/s. The shots are thrown  $2 \times 12$  times at an angle of 60° and  $1 \times 12$  times at an angle of 90°.

#### \*Wall

A handball is thrown 54 times against the test wall at a velocity of  $22.5 \pm 1.2$  m/s. The shots are thrown  $2 \times 12$  times at an angle of 45° and  $1 \times 30$  times at an angle of 90°.

Report number	R14504CAN-A1	Dege 4 / 4
Date	November 13th 2014	Page 4 / 4