

## **TECHNICAL REPORT**

Technical evaluation of Vertical Retractable Walls according to DIN 18032-3.

Skyfold systems by Railtech.

Report Number R14504CAN-A1

Jack Zagorski P.Eng RAILTECH Ltd.

Client 325 LEE AVENUE MONTRÉAL, QUÉBEC CANADA H9X 3S3

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









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#### LABOSPORT CANADA

# Technical evaluation of Vertical Retractable Walls according to DIN 18032-3.





#### **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:**

Mickaël Benetti, T.P. (Lab Manager) - Writer Guillaume Loubersac (Director) - Approver

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#### **I-S**COPE 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
			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		The strength, function, and safety of the wall not adversely affected.	Pass	1A
			Appearance not changed to any great degree.	Pass	1A

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## 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	Ceiling*	The strength, function, and safety of the ceiling not adversely affected.	Pass	1A
Ball impact	DIN 18032-	Wall*	Appearance not changed to any great degree.	Pass	1A
resistance	Part 3		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-	Wall*	Appearance not changed to any great degree.	Pass	1A
resistance	Part 3		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  $60^{\circ}$  and  $1 \times 12$  times at an angle of  $90^{\circ}$ .

#### \*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°.

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