Since 1991, Skyfold® has revolutionized the industry for acoustic operable walls by moving up – literally! With the launch of the Skyfold® Classic[™] 60 in October 2013, Skyfold® has done it again by setting the highest industry standards with an acoustic rating of 60 STC (Rw 59) on a fully functional wall. Acoustic test for panels 66STC (Rw 64).



SKYFOLD® CLASSICTM 60

ACOUSTICALLY SUPERIOR SPACE SAVING DESIGN FAST AND QUIET FAST AND QUIET Skyfold system System i provides f and can be space divisio is fully autom operation and

Skyfold® is a vertically folding retractable acoustic wall system that stores in the ceiling when not in use. This electric system is deployed by a turnkey / push button operation and provides for excellent acoustic rating up to STC 60 (RW59) and can be used in just about any location that requires room space division. Unlike conventional operable walls, Skyfold® is fully automatic and does not require manual labor reducing operation and maintenance costs. Skyfold® does not take up valuable floor space for storage pockets and does not require wall or floor tracks. A light weight system, with only a dead load exerted on the structure, Skyfold® systems save on structural steel requirements and are ideally suited for new or retrofit projects.





PROJECT: HOSPITALITY – RENOVATION

DESIGN CHALLENGE: Merging two ballrooms, meeting acoustic requirements Capturing back-of-house hotel space for front-of-house use is no easy feat. A brainstorming session for increasing floor area and flexibility of the function rooms led to the ingenious expansion opportunity, opening up the walls to a shared service corridor and kitchen to expand the hotel's popular ballrooms.

Two ballrooms – one large and one small – were originally separated by the corridor's fixed walls. The new layout called for demolishing the walls to make it one very large space.

The Skyfold acoustic vertical retractable wall system was installed at the midpoint of the former. In this way, the five star hotel gained the flexibility - in under 3 minutes - of having a supersized ballroom with the wall up – or, with the system deployed, two back-to-back function spaces, each now about 1m wider. The 300mm thick Skyfold retractable wall that meets and exceeds the required level of acoustical performance.

Client:	Skyfold Custom Powerlif 325 Lee Avenue, Montré	
Specimen:	Skyfold STC 60	
Specimen ID:	B3504-Phase3-27W-A14	ţ.
Construction Dat	te: June 25, 2013	
Specimen Descri	ption and Installation:	
Test	Specimen name	
Specimen	The specimen was opened and installation was completed witho adjustments	
Description of	Panels	
Panels and	Panels type	L
Seals	Panels on each side	ŀ
508/5	Thickness of panels Air gap between panels	ł
	Overall width of partition	t
	Overall height of partition	t
	Overall thickness of partition	t
	Total mass of all 8 panels	I
	Seals Vertical end seals extended by	_
	Top panel seal to header	+
	bottom panel seal to footer	1
	L.,	
Framing		
	The size of the 2.44 m by 3.66 m accommodate the specim follows:	
	 A header consisting of a 77 mm x 305 mm x 366 layers of plywood with din mm and 6 layers of CG dimensions of 16 mm x 30 	ne D
	 The header housed the n lifting mechanism. The I each end by 39 mm x 89 spaced 89 mm apart and 	he) r

NAC-CHAC

is tested. NRC does not represent that the

tor and other operable parts of the ader assembly was supported at nm wood studs 2439 mm long and stened to the test frame using Type paced every 200 mm on centre. motor bulkhead.

teel beam (C12 x 20.7) measuring mm covered on both sides with 2 nsions of 19 mm x 305 mm x 3667 SHEETROCK gypsum panels with mm x 3667 mm was constructed

acility test opening was reduced to by constructing a filler element as

25 mm extruded rubber "bulb" seal 57 mm high extruded rubber "bulb" seal 57 mm high

A14 Skyfold STC 60
4
19 mm
159 mm
3508 mm
2172 mm
299 mm
312 Kg

Skyfold STC 60

SKYFOLD

Partitions, Railtech LTD



PROJECT: MULTIFUNCTION BALLROOM – NEW BUILD

DESIGN CHALLENGE: Increase in usable floor space, quick configuration of spaces Moving on from traditional wall designs that take up floor space for storage pockets, the architects found Skyfold a perfect solution to meet the client's requirements of maximum floor space to increase seating capacity.

Skyfold's flexibility in adapting to various configurations in minutes to be used as a conference or smaller meeting spaces.



RECONTRUMED BALLBOOM AND B Information Informatio Informatio Information Information Infor

*Based on standing capacity as per fire code (253 seating capacity)



SKYFOLD® WALL Configuration

Each room now has SIGNIFICANTLY MORE SPACE. New room configurations are just a turnkey operation away.

SKYFOLD[®]





PROJECT: HEALTHCARE

DESIGN CHALLENGE:

Highly acoustic, maintenance free, quick and easy space division or the end users.



The proven acoustic performance and ease of use coupled with the flexibility to accommodate services vital for healthcare designers makes Skyfold a product of choice for SIM labs, teaching hospitals and multi use spaces in medical facilities.



PROJECT: EDUCATION: UNIVERSITY - GYMNASIUM

DESIGN CHALLENGE: Reducing the deflection on the structure while using an operable wall, while lowering costs of the steel structure.

> Skyfold walls are lighter than traditional movable walls and exert a dead load on the structure.

COST COMPARISON Based on a 36' (10,972mm) long wall

Below are the estimated costs associated with the support steel for the two partitions shown above.

Steel Cost Description	Skyfold 36' Long	Traditional 36' Long	Difference
**Main Support Steel	W24x68 x 36' lg @ \$1785	W36x160 x 36' lg @ \$6786	\$5001.00
Pocket Steel	0	~ \$6786	\$6786.00
Pocket Steel Installation	0	~ \$1000	\$1000.00
Total	\$1785.00	\$14,572.00	\$12,787.00
Cost / Linear Ft of Wall	\$49.58/ft	\$404.78/ft	\$355.20/ft

**Its assumed that the installation (labor) costs for the two main steel supports are similar thus ignored for this exercise. Only the material costs are compared for the main support steel. Steel pricing was provided by a local steel distributor and do not include contractor mark-ups or taxes.

Conclusion: Difference may by up to 135%



SKYFOLD







DESIGN CHALLENGE: Flexibility of small spaces

Making the most of the flexibility this Skyfold wall offers in his small office, Coach McDermott uses the wall at Creighton University to separate him (with a potential player) from the family and media. After he has received the commitment, he raises the wall, visually joining everyone in a theatrical experience.

> **PROJECT: CORPORATE OFFICE**

DESIGN CHALLENGE: Multifunction meeting space with flexibility in configurations

First, it is the most compact system out there, and it gives me the ability to minimize the impact to the room. In other words I don't have a closet full of folding panels. The second reason I used this system is the minimal impact on the plenum. This system takes about as much space above the ceiling as the sliding wall panel systems. I used the higher acoustic system because of the clients desire to have all 3 rooms running simultaneous with fully amplified speech systems, and this is the only product that came close to meeting the acoustician's requirements. I would also point out that the wow factor of the wall folding up into the ceiling was a selling point for the client. Being able to open a wall in seconds in the middle of a meeting and uniting the entire west half of a building for an important event blew their minds. After that the ease of use and the minimal labor requirement to set up was readily apparent to my client.

Those were some of the thoughts that went into the product selection.

- MARIO G. DEGISI, AIA (LSM Studio)



PROJECT: EDUCATION K-12 - GYMNASIUM

DESIGN CHALLENGE:

2 Simultaneous games; 2 sets of screaming fans?

No! The challenge was to have Impact resistant movable walls Low maintenance and easy to use impact resistant walls? With a third party test certificate, Skyfold is now a preferred product by school boards and PTAs.

The screaming fans don't hear each other? That's just an added plus!

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	act 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 imes12 times at an angle of 60° and 1 × 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 × 12 times at an angle of 45° and 1×30 times at an angle of 90°.

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Date	November 13th 2014	

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Recycled materials	up to 97%
Post-consumer	27%
Pre-Consumer	51%
VOC	0

SKYFOLD[®]

Thousands of installations worldwide and counting, Skyfold[®] is quickly gaining popularity with international designers.

PROJECT NAME Norton Rose Fulbright

Children's Hospital Kresge Foundation Conde Nast Rolls Royce HQ Guggenheim Henderson Global TIAA Snapchat KPMG KPMG - Project Roma **BBC Broadcasting House** Facebook Manila Bain & Company Kirkland & Ellis Weil Gotshal & Manges LLP Francis Crick Institute (UKCMRI) St. Regis Hotel Wells Fargo JP Morgan Chase Reb Lobster Test Kitchen Grant Thornton Schroders Plc Deloitte Tower - Montreal Mount Sinai Health System Music Venue – Phase II SCF - South Central Foundation Nuka Building Davidson Kempner Management

AND MANY MORE

ARCHITECT Gensler – Dallas **GBBN** Architects Valerio Dewalt Train Associates Gensler - New York **AECOM Architects** MKDA Perkins & Will - London MKDA Kasian Sheppard Robson Lawray Architects along with Sheppard Robson Paperspace Fusion Architecture VCA Gensler - New York HOK – London Avalon Collective along with RSP Architects Perkins & Will - London Gensler - New York Hunton Brady Architects Stantec TP Bennett Lemay & Associates along with FKA Architecture Gensler – New SLAB Architecture Watterson Construction **TPG** Architecture



