



**OPTICA**  
operable wall systems

FLEXIBLE  
SPACES  
VISUAL  
CONNECTION





# ACOUSTIC OPERABLE WALL SYSTEMS

GLYDE Architectural Acoustic Systems presents Optica, a range of acoustic movable wall systems that feature an unmatched level of design, performance, and operation at a friendly price. Our team of experts will support you in achieving your project requirements with a beautiful and compliant acoustic operable wall.

Sleek and easy to use, glazed Optica panels transfer light while controlling sound. Optica board panels offer practical use features and options to enhance overall interior design by injecting colour or texture.

Optica's smart design features include various acoustic options, midrails to accommodate multiple finishes, narrow sight lines, low profile retractable seal carriers, and accessible doors.

Get glazed and solid panel options within the same wall. Optica board panels offer a select range of finishes such as pinboard, whiteboard, and laminates along with a unique feature of being able to integrate glazed and solid sections within a single panel.

## TRUSTED EXPERTS

A brand of Aluminium Industries of Australia (Ai), GLYDE products benefit from Ai's more than 25 years' experience in the development and manufacture of architectural door and window systems in Australia.





Project: Mabel Park State High School

## Acoustic performance

Acoustic Rw rating:

GLASS	BOARD
44	45*
45	46
47	47
48	49
49	50
	53**

\*acoustic options

\*\*consult GLYDE for higher acoustic requirements

- Experts in acoustics, glass, and aluminium, GLYDE designers engineered Optica for increased performance and functionality.
- Optica systems are fully certified with independent testing completed by CSIRO in 2021, in-line with AS/NZ 150 717.1 (2004).
- Optica systems come in a range of acoustic (Rw) solutions to suit your requirements.

## Panel construction

- **GLASS:** Choose glass for maximum visual connection and transfer of light. The recommended glass type depends on a project's acoustic requirements.
- **BOARD:** Panels accommodate select fabrics, pinboard, whiteboard, and laminate finishes, increasing flexibility of use and integration into the space.

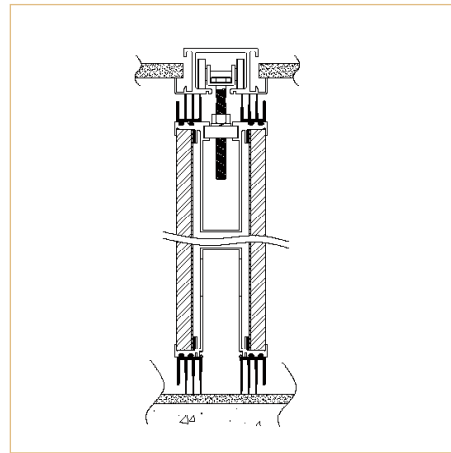
### PRODUCT FEATURE:

Optica can incorporate combinations of glass and board panels within the same wall.

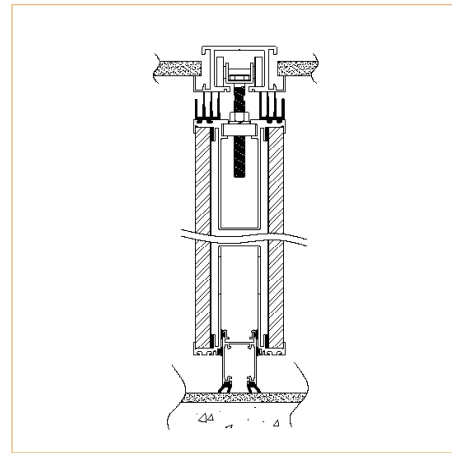




# OPTICA SEAL OPTIONS & CONFIGURATIONS



fixed top & bottom seals



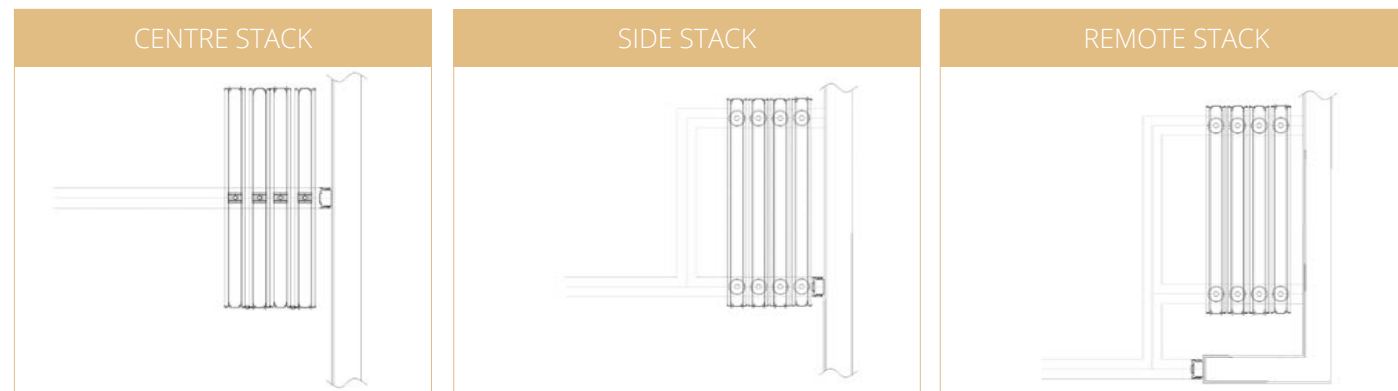
retractable bottom seals, incorporating fixed top seals

# OPTICA CLOSURES

DOOR	EXPANDING PANEL	EXPANDING JAMB
full height door, jamb hung, panel hung	expanding mechanism fitted to last panel located at stacking end	expanding mechanism fitted to jamb <small>(used for glass walls if door closure not required)</small>

# OPTICA TRACK LAYOUTS

Optica accommodates three choices for stacking of panels to the side when opening:



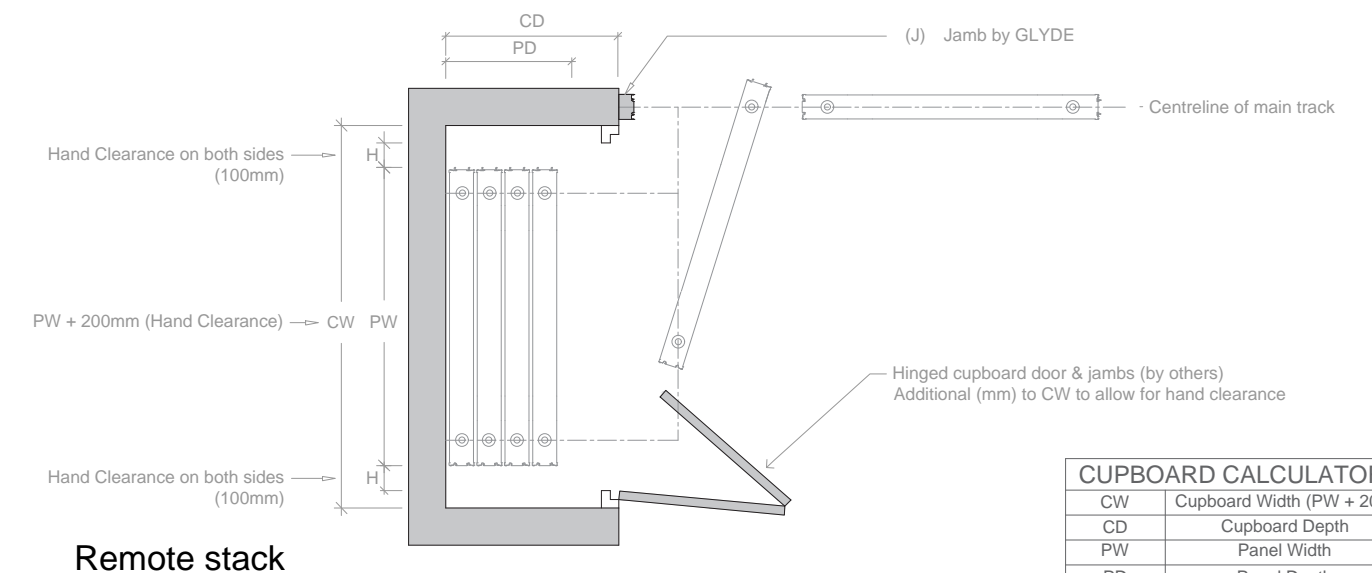
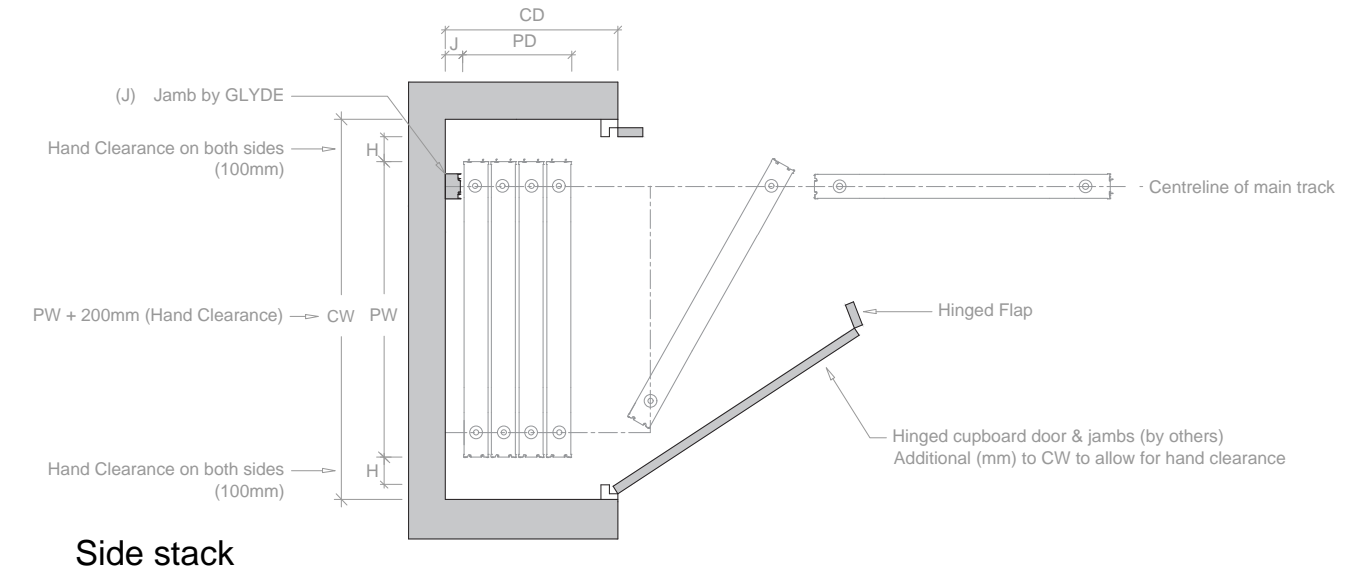
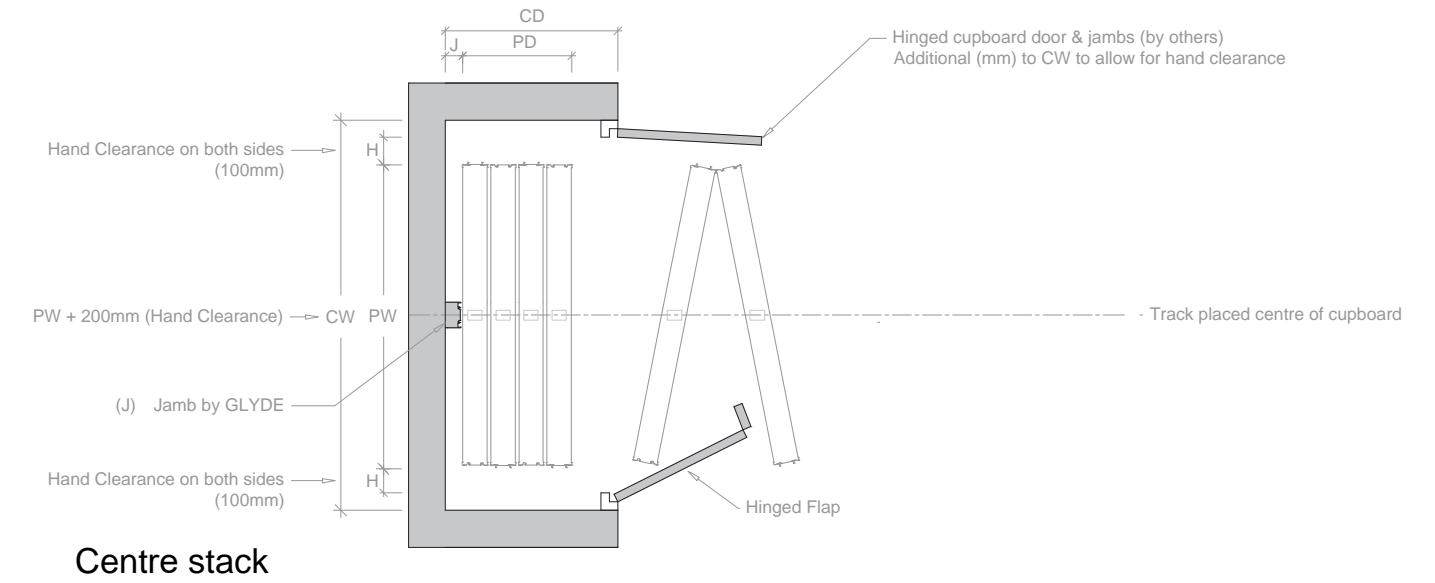
CENTRE STACK  
a straight track on a central trolley, hinged in pairs

SIDE STACK  
single panels suspended from two carriers at the top corners; one corner will remain on the main track

REMOTE STACK  
omnidirectional carriers allow panels to be stored in a cupboard or niche

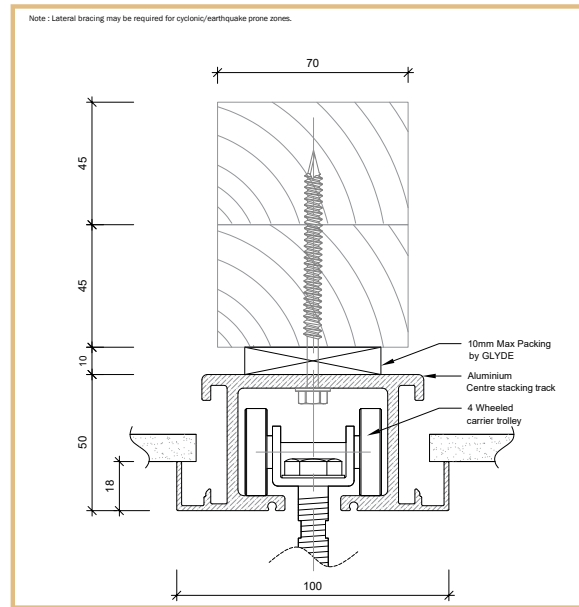
*\*Please note:* for alternative stack arrangements, please contact a GLYDE representative. We will be happy to assist you.

# OPTICA CUPBOARD DESIGN

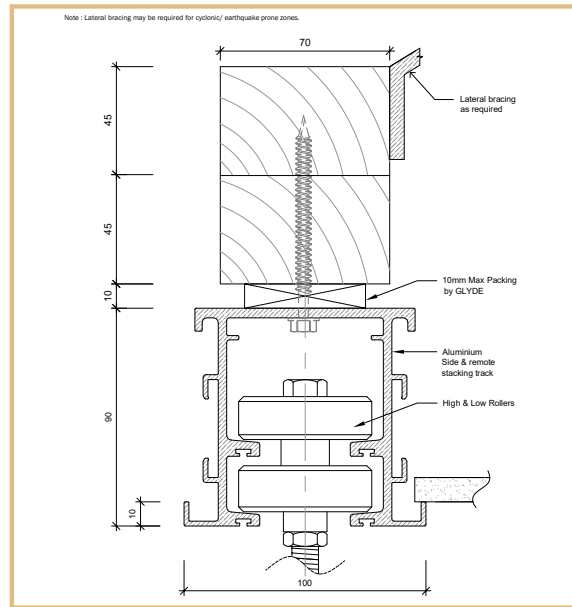


CW	Cupboard Width (PW + 200)
CD	Cupboard Depth
PW	Panel Width
PD	Panel Depth
H	Hand Clearance
J	Jamb (13 - 60mm)
P	Panel Thickness = 100mm

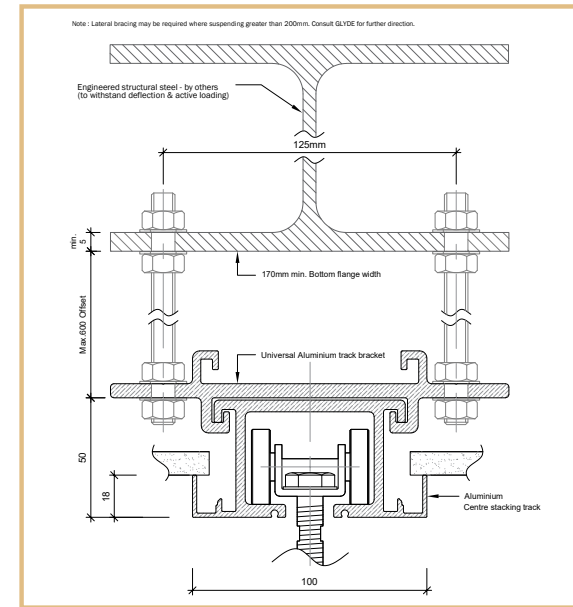
# OPTICA TYPICAL FIXING DETAILS



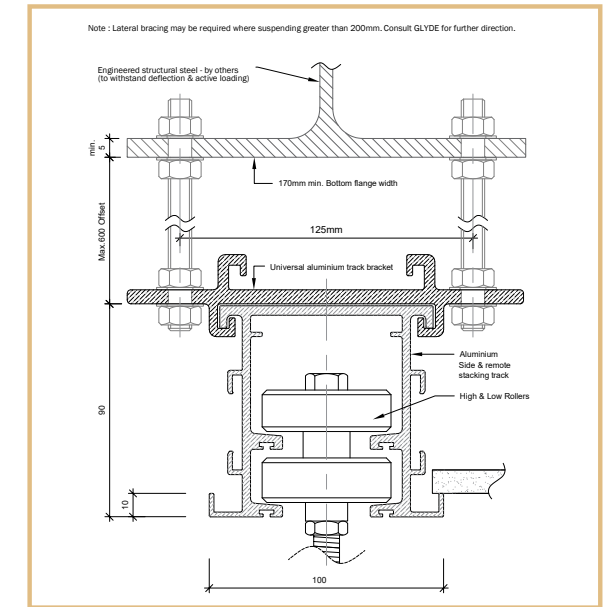
CENTRE STACK -  
FIXED TO TIMBER



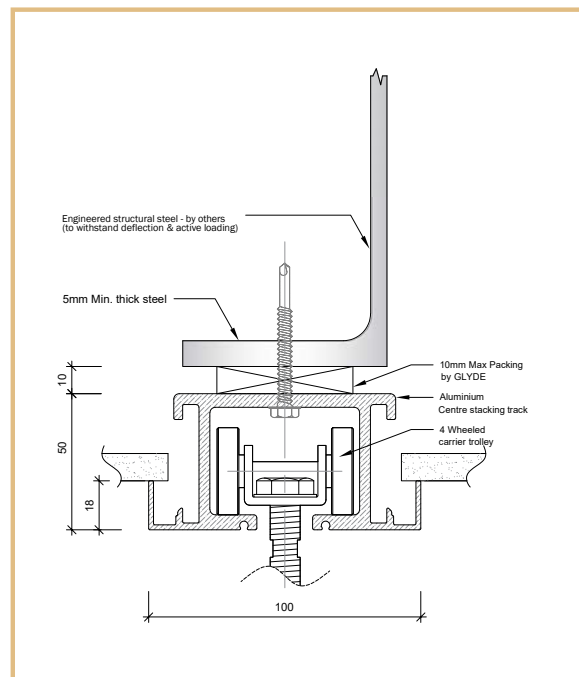
SIDE/REMOTE STACK -  
FIXED TO TIMBER



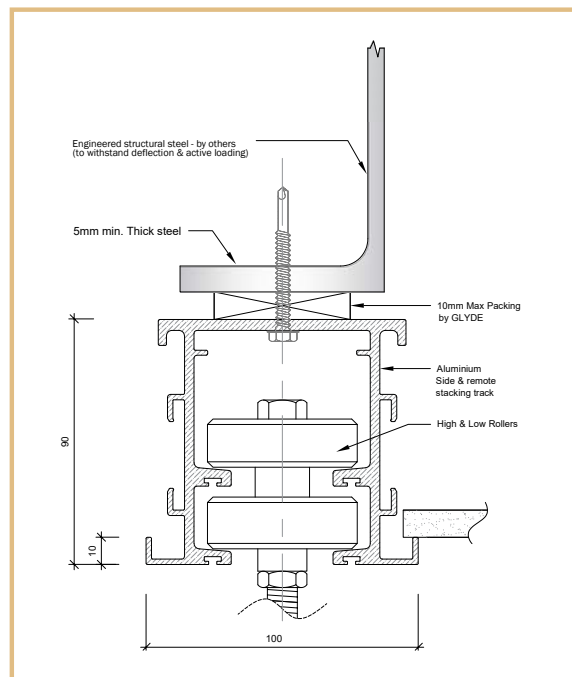
CENTRE STACK -  
FIXED TO STEEL -  
SUSPENDED



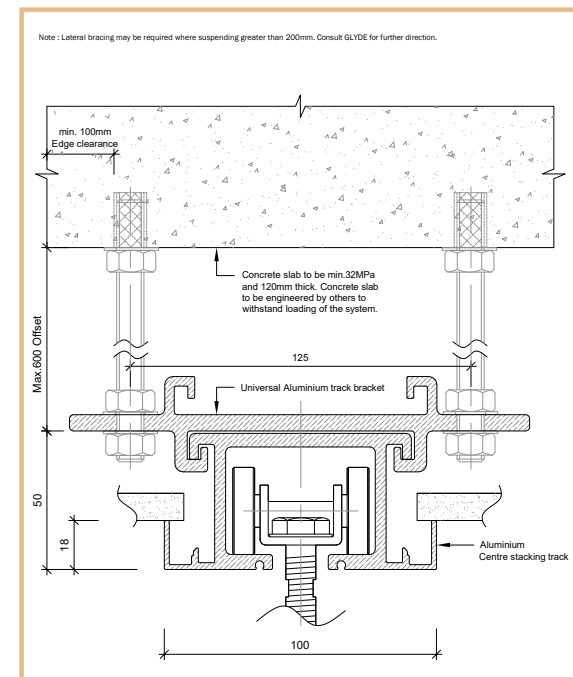
SIDE/REMOTE STACK -  
FIXED TO STEEL -  
SUSPENDED



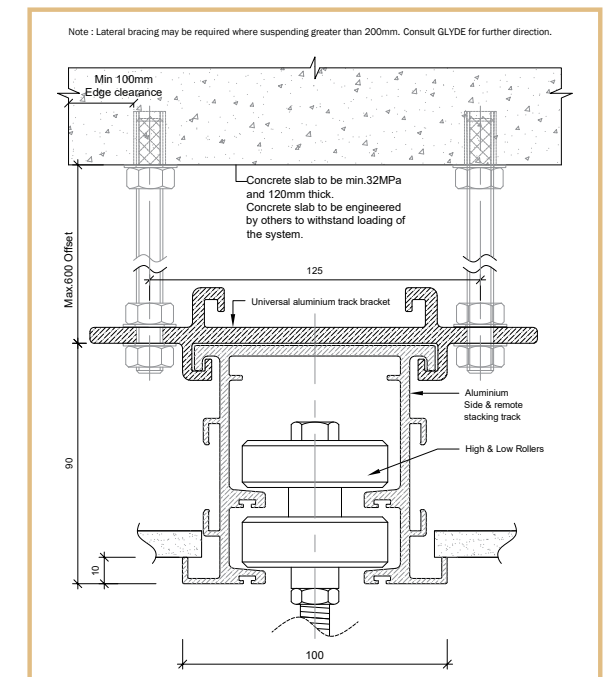
CENTRE STACK -  
FIXED TO STEEL DIRECT



SIDE/REMOTE STACK -  
FIXED TO STEEL - DIRECT



CENTRE STACK -  
FIXED TO CONCRETE -  
SUSPENDED



SIDE/REMOTE STACK -  
FIXED TO CONCRETE -  
SUSPENDED

Visit the Optica page on [glydearchitectural.com.au](http://glydearchitectural.com.au) to view these drawing full size.

These drawings highlight a selection of general information. Talk to a GLYDE team member for assistance with specific project specifications.

# INTEGRATE ACOUSTIC WALLS & SLIDING DOORS

GLYDE provides a resolved product range by combining Optica acoustic walls with GLYDE acoustic sliding doors. Specifying both performance systems in a project makes it easier to create flexibility and multi-functional spaces.

Architects and builders enjoy a simplified specification, supply, and delivery process.



*Project: QUT Kelvin Grove*

## Compliance & certification



Be confident with Optica. Navigating regulatory guidelines can challenge the most experienced architect. GLYDE's specification team works with you to ensure Optica systems comply with project requirements, including accessibility and acoustic performance.

## Reliability



Locally sourced components ensure we deliver Optica in-full, on-time, every time. GLYDE is Australian designed, Australian owned, and Australian built. We manufacture in Melbourne with representation in all Australian states. Our on-site capabilities include extrusion, powder coating, and fabrication.

## Accredited CPD program



GLYDE's popular AIA approved CPD program covers concepts and practical tools for:

- Design intent
- DDA compliance
- Acoustic performance
- Measuring acoustic performance

## Full customer support



GLYDE team members are experienced, knowledgeable, and available to help. GLYDE offers a high level of technical design and specification support to ensure Optica systems meet the needs of the end user, look great, and perform even better.



# OPTICA

## TECHNICAL INFORMATION

### Track Dimensions

Centre Stack Track:	100mm wide x 50mm high
Multi-directional Side or Remote Track:	100mm wide x 90mm high

### Maximum Panel Size

Maximum Panel Height:	3.6m
Board Maximum Panel Width:	1.2m wide

### Tolerances

Floor should be level within +/- 5mm across the opening for satisfactory acoustic performance
Jambs to be plumb +/- 5mm
Overhead support to suit the weight of the wall systems with no greater than a 5mm deflection

### Glass Construction

Stile Width:	25mm External / 45mm Internal
Top & Bottom Rail:	120mm Internal <i>(please refer to GLYDE's "Typical Section Details")</i>

### Board Construction

Stile Width:	12mm
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### Closure Options

Full Height Door with Standard Flush Pull Handles or Lever Handles options <i>* Keylock options available</i>
Expanding panel or Expanding jamb

### Panel Weights

Glazed Rw Rating	
Rw44	41kg/sqm
Rw45	46kg/sqm
Rw47	46-55kg/sqm
Rw48	55kg/sqm
Rw49	60kg/sqm

Board Rw Rating	
Rw45*	32kg/sqm
Rw46	33kg/sqm
Rw47	35kg/sqm
Rw49	46kg/sqm
Rw50	48kg/sqm
Rw53*	55kg/sqm

*\*Contact GLYDE for acoustic opinions for Rw45 and Rw53*



Project: Box Hill North Primary School



Project: Piara Waters Secondary School



# GLYDE Optica Specification Matrix

Select one option from each section

	Code	Options	Description
Panel Construction	<b>G</b>	Glass	Glass type based on acoustic requirements
	<b>B</b>	Board	Will accommodate select fabrics, pin board, whiteboard, and laminate finishes
Acoustic Rw Rating	<b>44</b>	Glass Rw44	<b>NOTE:</b> Glazed Acoustic walls provide a visual connection between rooms which reduces some dependency on high acoustic specifications.
	<b>45</b>	Glass Rw45	
	<b>47</b>	Glass Rw47	
	<b>48</b>	Glass Rw48	
	<b>49</b>	Glass Rw49	Solid walls require higher acoustic specifications when compared to the glazed systems.
	<b>45</b>	Board Rw45*	
	<b>46</b>	Board Rw46	As a guideline, we recommend: <ul style="list-style-type: none"> <li>Rw44 - 47 for GLAs in schools and standard Meeting Rooms</li> <li>Rw47 - 50 for Boardroom applications and Music rooms</li> </ul>
	<b>47</b>	Board Rw47	
	<b>49</b>	Board Rw49	
	<b>50</b>	Board Rw50	
	<b>53</b>	Board Rw53*	All GLYDE panels are 100mm thick. <small>*Contact GLYDE for acoustic opinions for Rw45 and Rw53</small>
Track Layout	<b>C</b>	Centre stack	Contact GLYDE for alternative stack designs outside of the standard configurations.
	<b>S</b>	Side stack	
	<b>R</b>	Remote stack	
Closures	<b>D</b>	Door	Full height door - hinged off jamb or adjacent panel (some limits may apply for this configuration)
	<b>EP</b>	Expanding panel	Expanding mechanism fitted to the last panel
	<b>EJ</b>	Expanding jamb	Expanding mechanism fitted to the jamb (recommended for glass panels if door closure not required)
Seals	<b>FS</b>	Fixed seals	Top and bottom
	<b>RS1</b>	Retractable bottom seals	Incorporating fixed top seals

## Example

**G 47 C EJ RS1**

### G47 / C / EJ / RS1 specifies:

1. Glass operable wall
2. Rw47
3. Centre stack
4. Expanding jamb
5. Retractable bottom seals