FEATURED PROJECT · RESIDENTIAL

Middleton SA

"We didn't want to see window frames or the doors at all when they were open — just the ocean."

HOMEOWNER, MIDDLETON SA



LOCATION	SYSTEM	AUTOMATION	BIFOLD	INSTALLED
Middleton, Fleurieu Peninsula SA	Schüco ASS 70 FD & AWS/ADS 65	7 TipTronic vents	5 panels, 3.45 m wide	2018

01 — THE BRIEF

A clifftop addition above Middleton's surf beach

Perched above the surf beach at Middleton, on South Australia's Fleurieu Peninsula, this new addition was designed by Nicholas Ingerson Architect around a single idea: the living, dining and bedroom spaces should open straight onto the ocean.

The drawings called for floor-to-ceiling glazing up to 5.7 m wide, a bifold that folds fully clear to the deck, high-level vents the owners could open without a ladder, and a small glazed roof section.

Everything had to stand up to direct salt air while keeping frames slim enough that the horizon stays the hero of every room.

02 — PROJECT TEAM

The architect's vision

Architect Nicholas Ingerson designed the addition around its ocean outlook. KR worked directly with the owner-builder from system selection and documentation through to fabrication, installation and commissioning.

ARCHITECT

Nicholas Ingerson Architect

VISIT WEBSITE

BUILD

Owner build

SYSTEMS, FABRICATION & INSTALLATION

KR Installations

03 — THE SOLUTION

Minimal Schüco systems, for expansive openings



SPECIFICATION

Schüco ASS 70 FD bifold and AWS/ADS 65 windows

KR specified a five-panel Schüco ASS 70 FD open-out bifold, 3.45 m wide, to open the living area onto the deck. Around it, Schüco AWS/ADS 65 frames carry the large fixed glazing, including a 5.7 m three-pane wall facing the ocean, and a Schüco FWS 50 glazed roof section completes the envelope.

Every frame is clear anodised and double glazed with toughened, argon-filled low-E units.

- SCHÜCO FOLDING SLIDING DOORS
- SCHÜCO AWS WINDOWS

WINDOW AND DOOR SCHEDULE (AS FABRICATED)

REF	ELEMENT	SCHÜCO SYSTEM	SIZE (W × H)	OPERATION
W12-D3	Living room bifold	ASS 70 FD	3,450 × 2,410 mm	5-panel open-out fold, side-hung first panel
W01	Ocean-facing glazed wall	AWS/ADS 65	5,695 × 2,410 mm	3 fixed panes
W02–W04	Glazed walls	AWS/ADS 65	3,000–4,470 mm wide	Fixed
W05	Full-height unit	AWS/ADS 65	1,520 × 2,410 mm	Fixed with TipTronic top-hung vent
W06–W11	Highlight and under-stair windows	AWS/ADS 65	800 × 450 mm (typ.)	TipTronic top-hung vents
Roof	Glazed roof section	FWS 50	1,510 × 622 mm	Fixed, toughened laminated

Glazing: 6 mm low-E toughened / 18 mm argon / 6 mm clear toughened (Ug 1.5), and 10 mm toughened / 16 mm / 10 mm low-E units (Ug 1.7) on the larger panes. Finish: clear anodised 25 µm inside and out.

AUTOMATION

TipTronic vents, opened from the wall

Seven Schüco TipTronic top-hung vents, including a row of highlight windows, open and close electrically. The owners can let out warm air and draw in the sea breeze without reaching for a pole or a ladder.

The bifold is operated by hand and folds fully clear, with its first panel side-hung for everyday access.





FABRICATION & INSTALLATION

Fabricated, installed and looked after by KR

KR detailed every unit in Schüco's SchüCal software, fabricated the frames in-house and installed them on site through 2017–18, commissioning the TipTronic vents before handover.

KR has kept looking after the home since, with servicing, new glass handrails to the staircase and replacement awning windows completed through to 2025.

05 — SPECIFICATIONS

Specifications

SCHÜCO

Aluminium
Schüco ASS 70 FD / AWS/ADS 65

Motorised
7 TipTronic top-hung vents

Double Glazing
Low-E argon IGU, Ug 1.5

Weather Resistant
Clear anodised 25 µm

Acoustic Control
Reduced coastal wind noise

06 — GALLERY

The finished result







Request CAD sections & BIM
For architects and drafters

Request a spec review
KR checks your window and door schedule

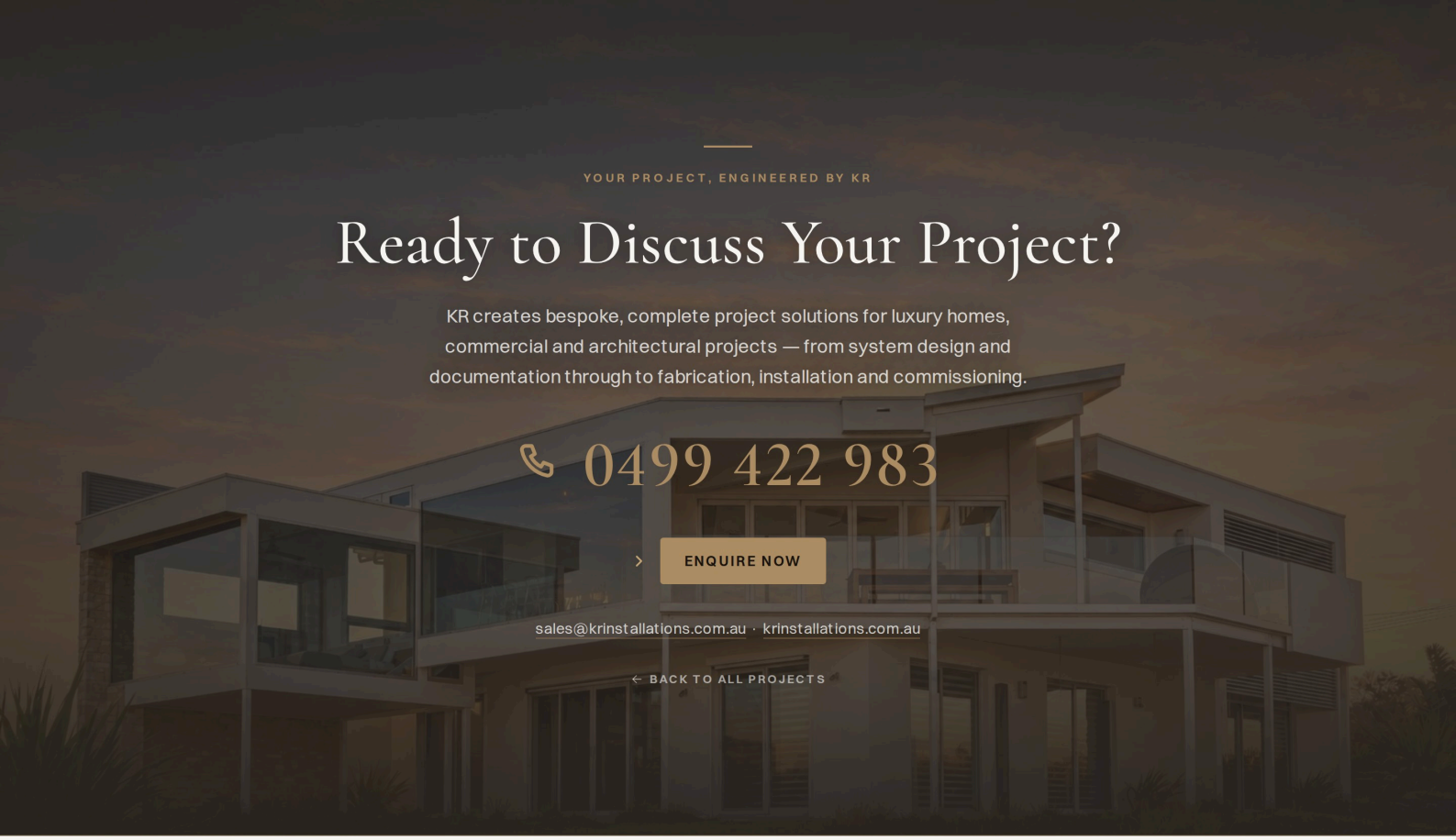
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For partner architects and builders

07 — PARTNER WITH KR

Working with architects and builders

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YOUR PROJECT, ENGINEERED BY KR

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