

PVC-based
Permanent formwork
Lightweight, load-bearing

Ideal for basements, columns, blade & party walls,
lift & stair cores, retention tanks, retaining walls
and landscaping

PVC-based permanent formwork walling system for above and below-ground application.

Available in an industry-leading range of profile widths: 110mm, 156mm, 200mm, 256mm, 275mm & 300mm.

COMPLIANCE360°
CodeMark Certified • NCC Compliant



Largest range of profiles provides the versatility needed for most internal and external walling

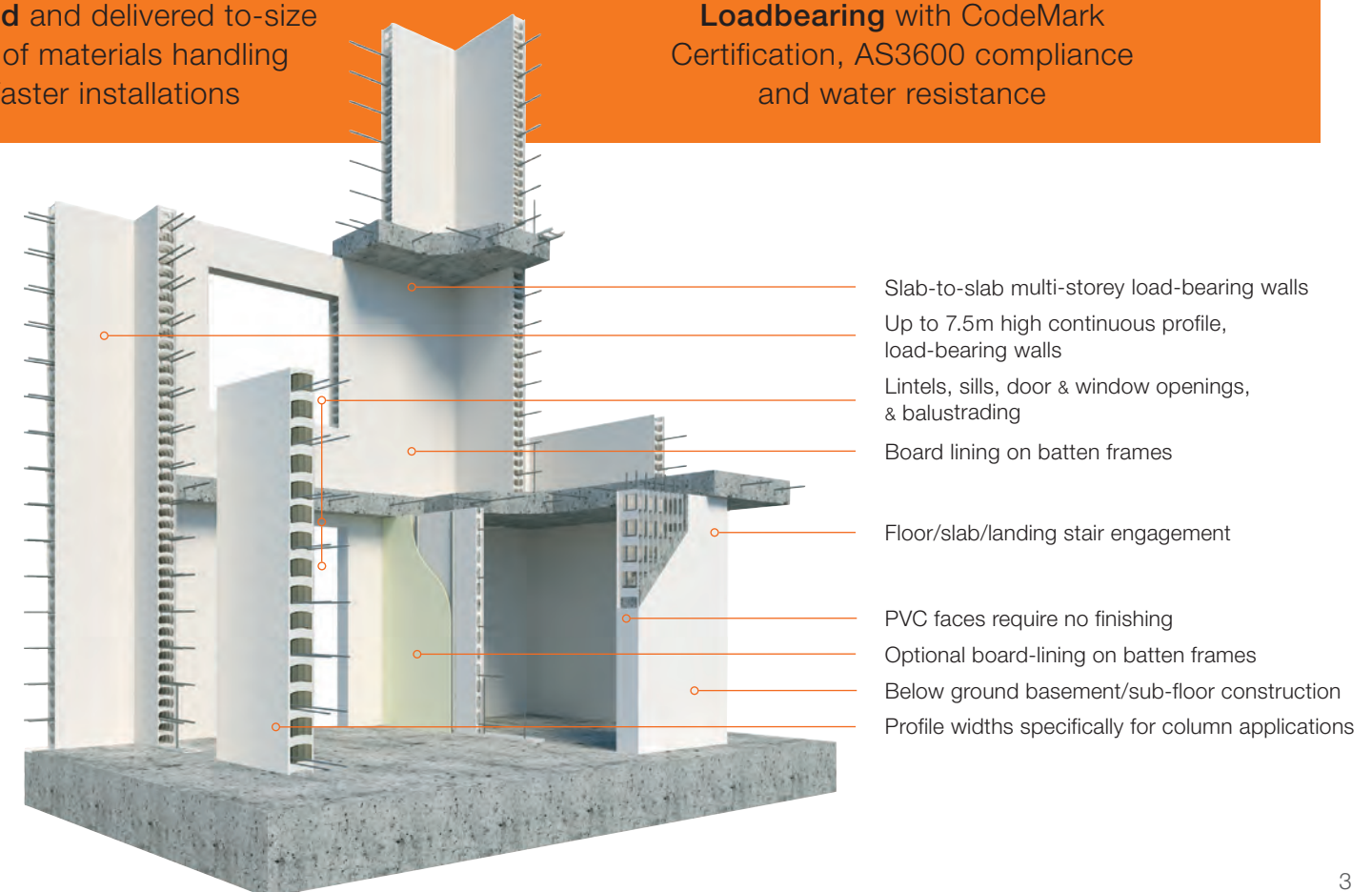
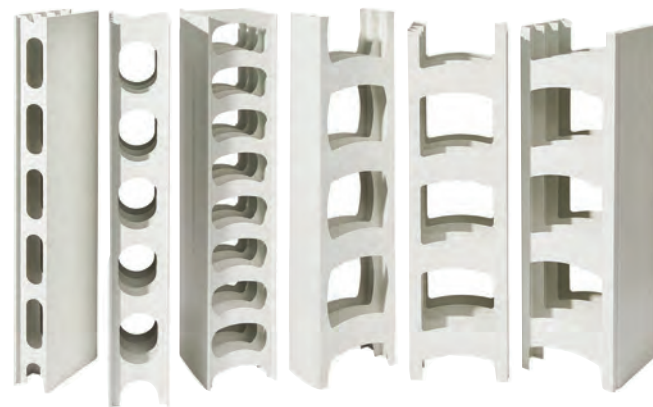
PVC-based and delivered to-size for ease of materials handling and faster installations

Loadbearing with CodeMark Certification, AS3600 compliance and water resistance

AFS Rediwall® is a PVC permanent formwork system and a time-saving alternative to conventional masonry and blockwork. Its precision-extruded components easily interconnect for rapid installation and there is no specialised training needed.

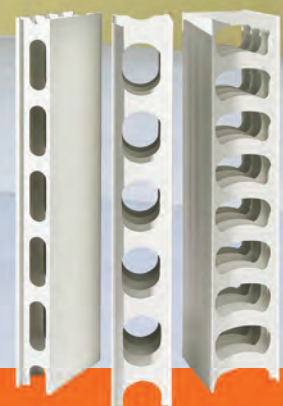
CodeMark Certified and AS3600-compliant, rediwall® is load bearing for multi-level structures. It presents a consistently even, water-resistant and durable surface that often doesn't require any finishing.

Offered in six profile widths, the rediwall® range solves above and below ground walling needs, including: basements, columns, party walls, lift/stair cores, retention tanks, retaining and landscaping walls.



One system provides the complete above and below ground walling solution

Basements, columns, blade and party walls, lift & stair cores, retention tanks, service and stormwater pits, retaining and landscaping walls



110mm, 156mm, 200mm Speedy-Snap-In™ panels with 90° Ezy-Fit™ removable corners — and the ease of 256mm, 275mm, 300mm slide-together panels

S Y S T E M B E N E F I T S

Why **architects** prefer rediwall®

- System maximises saleable floor space for clients
- CodeMark Certified, AS3600 compliant and water resistant
- Choice of six profile widths and comprehensive catalogue of components— one system, one solution
- Panels provide a superior, semi-gloss surface with option for further finishing

Why **engineers** prefer rediwall®

- Simple reinforcement— single and double
- Full width concrete core thickness
- Simple robust bracing methodology
- Quick reinforcement inspection with Ezy-Fit™ removable corners
- Large holes for optimum concrete placement

Why **builders** prefer rediwall®

- Significantly quicker floor-cycles, can save days even weeks compared to conventional masonry and blockwork
- No craneage necessary
- Significantly less waste and mess than blockwork
- Most economical alternative to a conventional shoring wall available
- Fewer trades needed and sites are kept cleaner and more efficient
- Panels provide a superior, semi-gloss surface with the option for further finishing

Why **installers** prefer rediwall®

- Panels can be delivered cut-to-size or easily cut down for late changes
- Reinforcement is simple and fast to install and inspect
- Panels can clip or slide together, allowing speed of installation
- Installation is simple to learn and onsite training is available through AFS.

Speed of construction



Ease of materials handling



Above and below ground versatility



Speedy-Snap-In™ panels lock together instantly



Ezy-Fit™ corner panels slide open for access



COMPLIANCE360°
CodeMark Certified • NCC Compliant

AS3600 Compliant



Water resistant



Significant waste reduction



Industry-leading innovation for fast, trouble-free installation

The extruded PVC components simply snap or slide readily into place. Assembly is rapid and the resulting wall surface is clean and even.



SYSTEM OVERVIEW

RW110

Speedy-Snap-In™

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
Ezy-Fit™ Corner, H-Joiner,
T-Joiner, Floor Track,
End Cap, FC Strip



RW156

Speedy-Snap-In™

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
Ezy-Fit™ Corner, H-Joiner, T-Joiner,
J-Track, F/F Joiner, Floor Track,
End Cap, FC Strip, 115mm Spacer

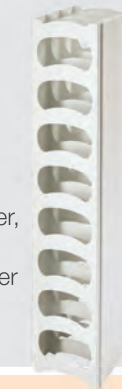


RW200

Speedy-Snap-In™

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
Ezy-Fit™ Corner, H-Joiner, T-Joiner,
J-Track, F/F Joiner, Floor Track,
End Cap, FC Strip, 115mm Spacer



RW256

Slide in

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
End Cap, QuickCap™ End Cap,
F/F Joiner, Floor Track, FC Strip



RW275

Slide in

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
End Cap, F/F Joiner, FC Strip



RW300

Slide in

Lengths: 2.8m, 3.0m, 3.2m, 3.6m

Accessories:
End Cap, F/F Joiner, FC Strip



Wall Type	RW110 Snap-In	RW156 Snap-In	RW200 Snap-In	RW256 Slide-In	RW275 Slide-In	RW300 Slide-In
Wall Thickness	105mm	150mm	194mm	250mm	269mm	294mm
Filled Wall Mass (kg/m ²) (P≤2%)	252	360	466	600	646	706
Application	Party walls, fire walls		Basements, party and blade walls, retaining walls and retention tanks, service and stormwater pits		Basements, party and blade walls, columns, retaining walls	
Acoustic Rating R _w + C _{tr}	45	50	53	55	>56	>56
Max Fire Resistance Level	90/90/90 (N _f <152 kN/m, H _{WU} <2700) ^{#3}	240/240/240 (N _f <333 kN/m, H _{WU} <3000) ^{#5}	240/240/240 (N _f <333 kN/m H _{WU} <3000) ^{#5}	240/240/240 (N _f /ØN _U =0.54) ^{#4}	240/240/240 (N _f /ØN _U =0.69) ^{#4}	240/240/240 (N _f /ØN _U =0.70) ^{#4}
Design Axial Capacities (kN/m)	315 ^{#1}	450 ^{#1}	1760 ^{#2}	3040 ^{#2}	3470 ^{#2}	4110 ^{#2}

#1 Based on AS3600-2018 c11.5 with H_{wu}=3000, f_c=32 Mpa UNO

#2 Based on AS3600-2018 c14.7 with H_{wu}=3000, f_c=32 Mpa with 2 layers, reinforcement examples typical

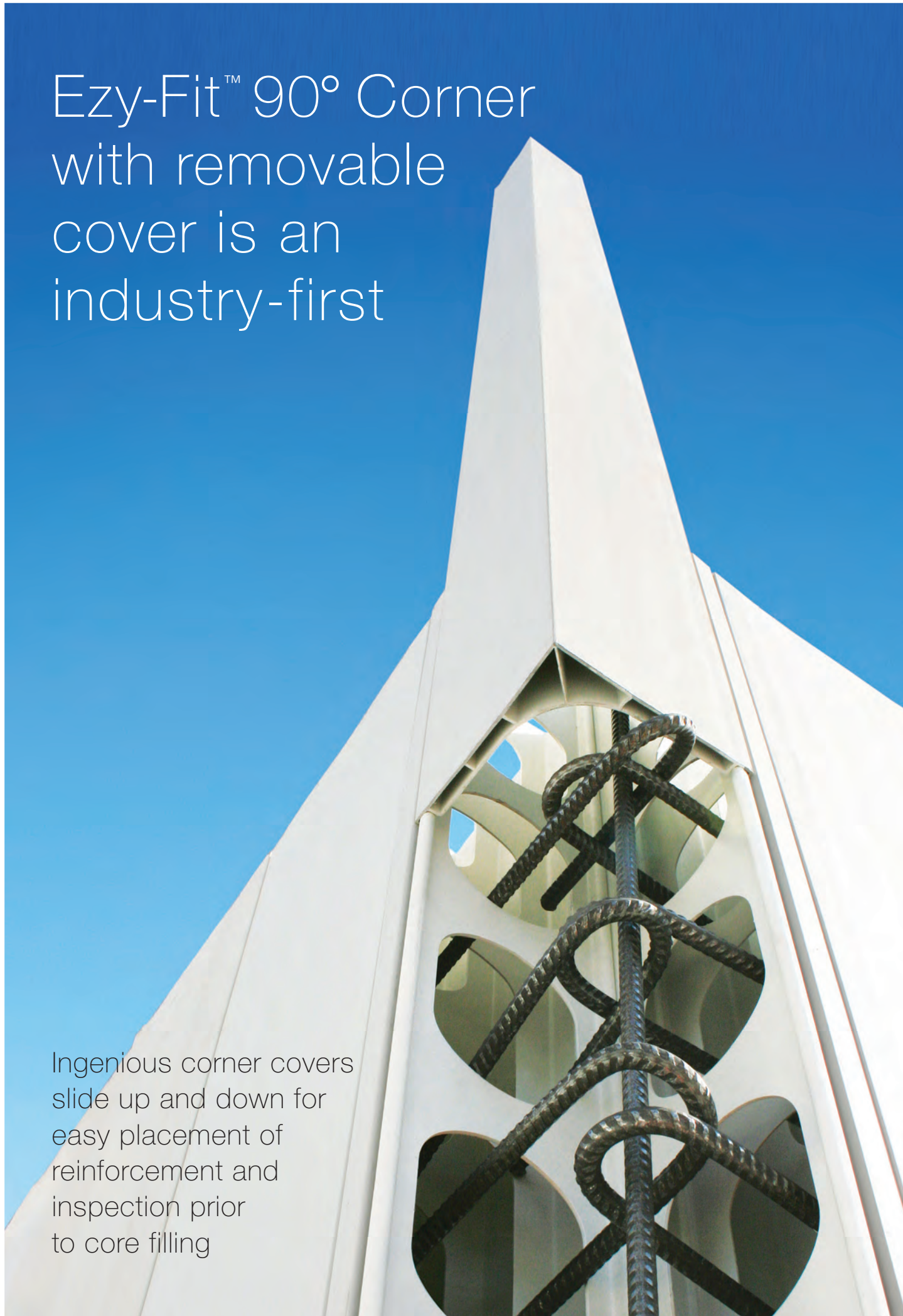
#3 Based on SGA Evidence of Suitability Report 2013/277.65 R2.1

#4 Based on AS3600-2018 c5.7, exposed one side

#5 Based on Warrington Fire Report EWFA 5173600.2

Ezy-Fit™ 90° Corner with removable cover is an industry-first

Ingenious corner covers
slide up and down for
easy placement of
reinforcement and
inspection prior
to core filling

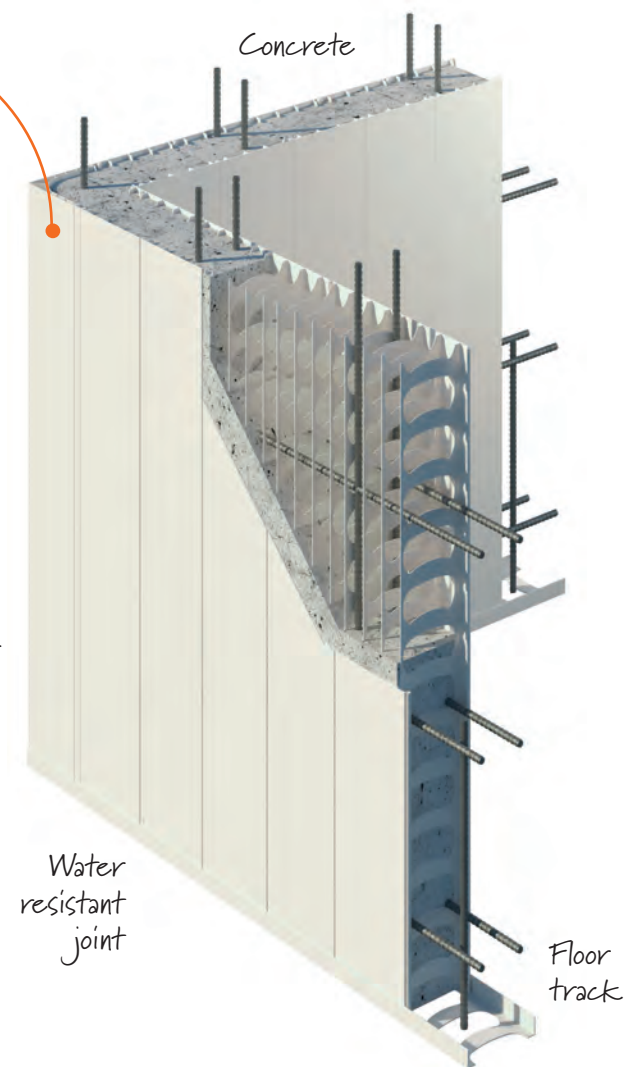
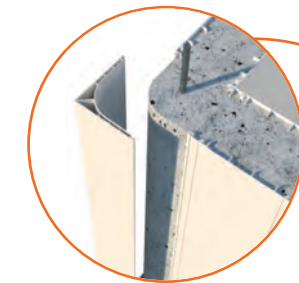


A C C E S S O R I E S

Revolutionary Ezy-Fit™

Open-back corner gives unobstructed access
for trouble-free installation of reinforcement bars.

Certifying engineers simply remove the cap to
approve placement prior to pouring concrete—
that's not possible with conventional systems.



Industry-first: Ezy-Fit™ Corners

The outer cover effortlessly slides up for
trouble-free access to reinforcement.
With everything in place, it simply slides
back to allow core filling.



Corner
panel

Outer cover
slides up for
access

Water
resistant
joint

Floor
track

Comprehensive walling system

The rediwall® system offers an exhaustive range
of accessories—specific to each profile width—

including everything you need to make curved
and straight walls, above or below ground.



Corners



H-Joiners



T-Joiners



J-Track



115 Spacers



End Caps



Floor Track



To learn more visit
afstformwork.com.au

Patented Speedy-Snap-In™ system ensures easier, faster installation



It's as easy as snap, brace, pour

110mm, 156mm and 200mm PVC-based panels simply snap-in together, while the **256mm, 275mm and 300mm** profiles utilise a slide-together action.

Regardless of the interlocking mechanism, rediwall® panels can be quickly installed and braced for core-filling, without specialised training or trades.



1 Lightweight panels make for easier materials handling



2 Panels effortlessly interlock with snap-in or slide-together mechanisms



3 And simply slide down to seat into the floor tracking and form a wall



4 Bracing



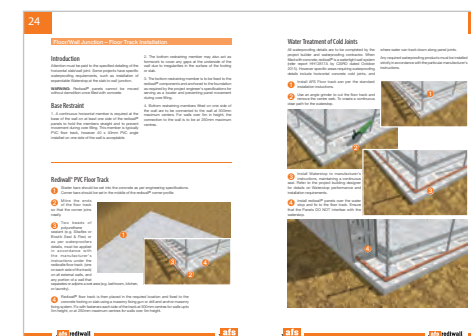
5 Reinforcement placement



6 Core filling

I N S T A L L A T I O N G U I D E
A N D A F T E R - S A L E S S E R V I C E

Dedicated project co-ordinators and on site training & assistance

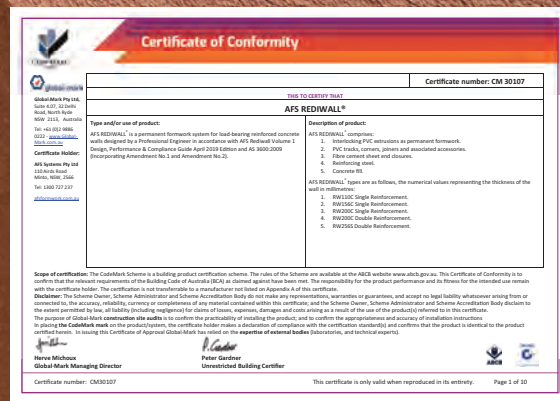


By design the afs rediwall® system can be installed with little or no training, using the assistance of our Installation Guide.

Additionally, our after-sales service team offers customers hands-on assistance on-site. Or you can choose an AFS-recommended installer.

afs rediwall® meets or exceeds all critical building performance requirements

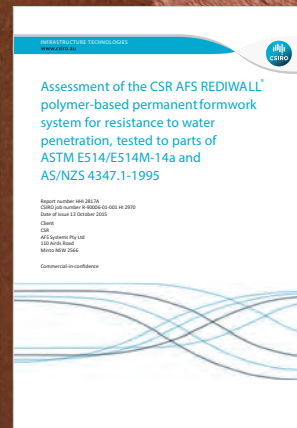
CodeMark Certified



CSIRO Certified



Fire Testing



AFS Rediwall® is one of the industry's most tested permanent formwork systems.

CodeMark Certification

AFS Rediwall® complies with NCC performance requirements for:

- Fire resistance/non-combustibility
- Structural stability (AS3600)
- Weatherproofing
- Sound insulation
- Bushfire provisions (BAL)
- Termite resistance

Water Performance—CSIRO Certified

Recognising the importance of resistance to water penetration, testing has been undertaken whereby rediwall® panels were interlocked, core-filled with concrete and exposed to 6m hydrostatic head of pressure for a period of 100 hours as per ASTM E514/E514M and AS/NZS 4347.1 testing and passed for no water penetration.

Fire testing for afs rediwall includes:

Fire Performance

Expert assessment based on extensive fire testing of rediwall® for both internal and external application confirms compliance to the following NCC performance requirements:

- CP1 Structural stability
- CP2 Spread of fire
- CP3 Spread of fire and smoke/aged care buildings
- CP4 Materials and assemblies
- CP7 Emergency equipment
- CP8 Openings and penetrations

AS5113/BS8414 Façade Test

Passes in 'No spread of flame', 'Temperature rise limit criteria', and 'No flaming'.

AS5637.1 Reaction to Fire (Room Test)

Group Number 1 can be used in all building types and classes
Smoke Growth Rate Index: SMOGRA_{RC} 28.3m²/s²x1000

AS1530.3 Fire Hazard Properties

Ignitability index	10	Spread of flame index	0
Heat evolved index	0	Smoke developed index	6

AS1530.4 Fire Resistance Level (FRL)

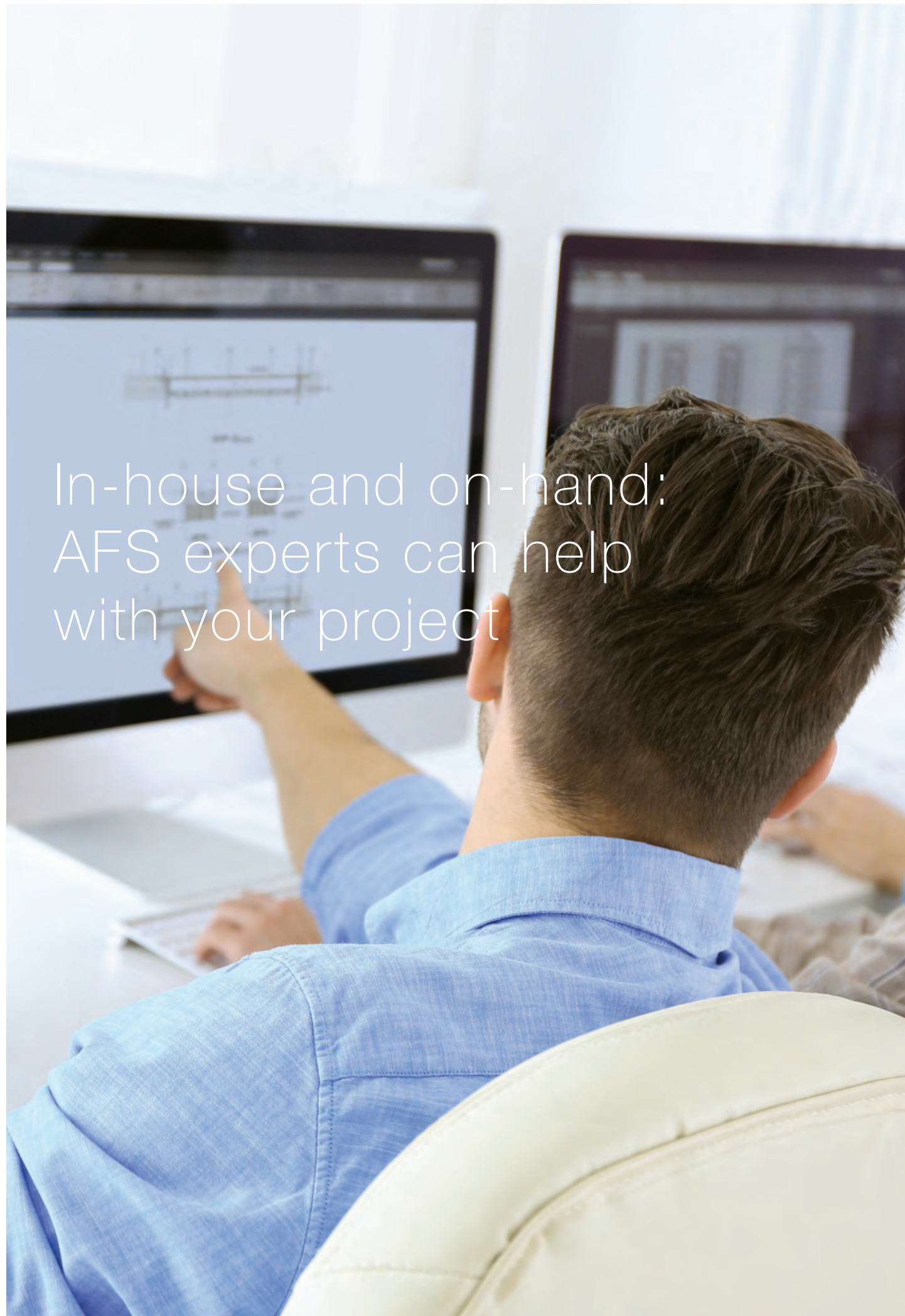
AFS Rediwall®	Max. FRL
RW 110	90/90/90
RW 156	240/240/240
RW 200	240/240/240
RW 256	240/240/240
RW 275	240/240/240
RW 300	240/240/240

AS1530.4 FRL Service Penetrations

AFS Rediwall®, containing various service penetrations, has been tested and assessed to AS1530.4 to achieve a fire resistance level FRL-120/120 with the PVC facing left in place.

Need more information on the compliance credentials of afs rediwall®?

Contact our Technical Team on: **1300 727 237.**

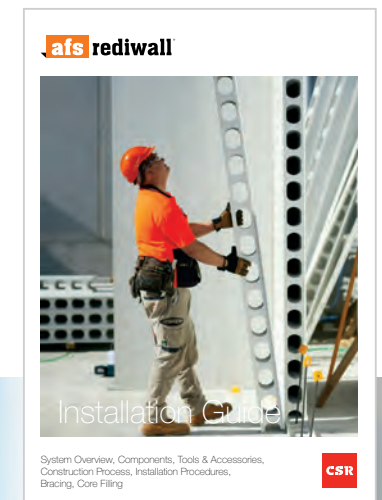
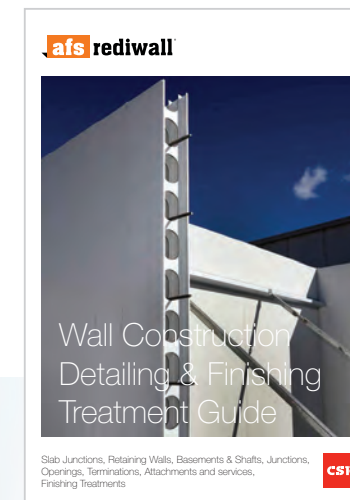


In-house and on-hand:
AFS experts can help
with your project

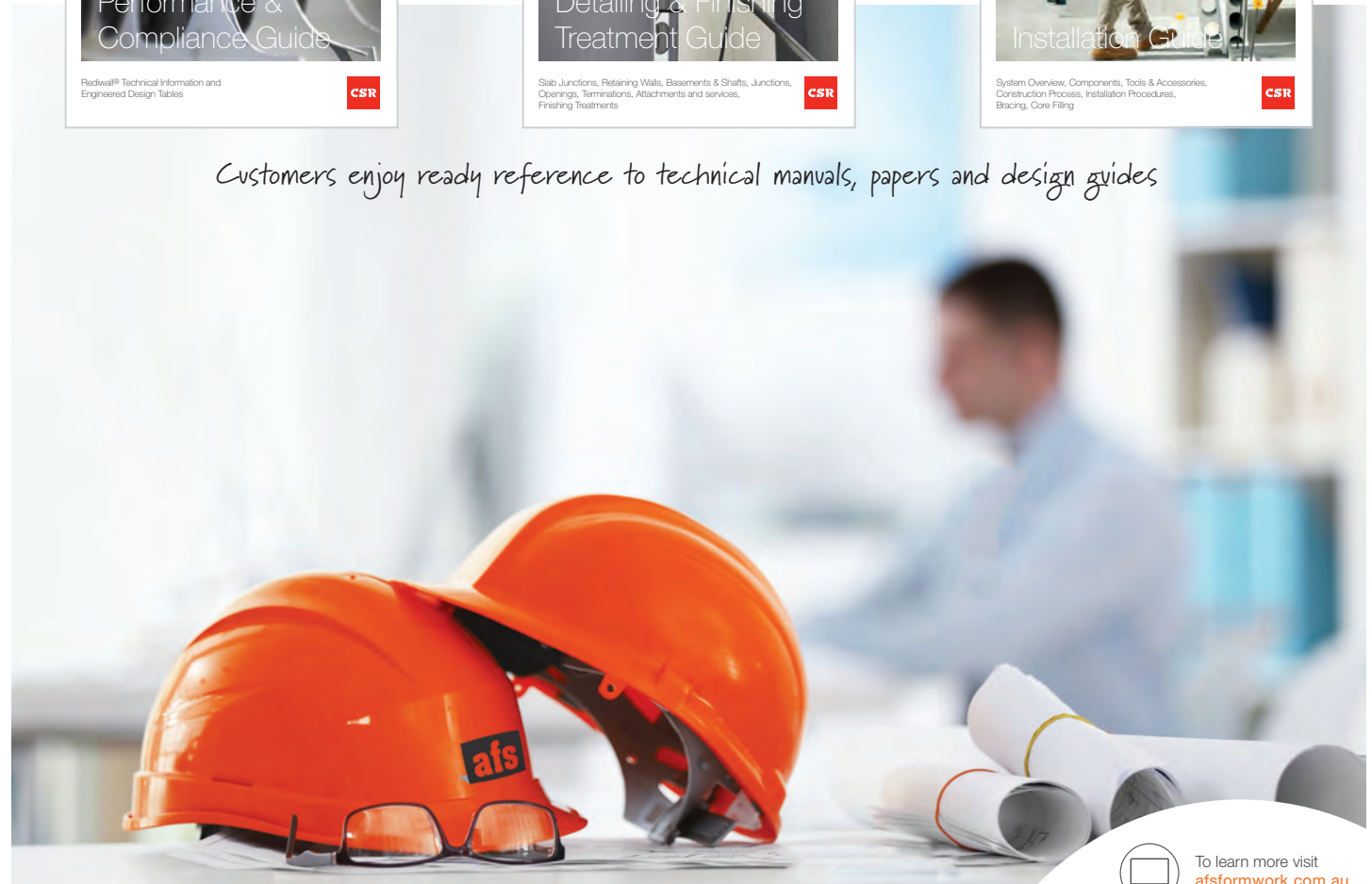
OUR DESIGN TOOLBOX & GUIDES

Talk to our experts: AFS offers architects, engineers and builders a wealth of technical reference and in-house engineering, drafting and estimating expertise.

This ensures a customer can get the best advice on a project at concept design or when plans are available. Building professionals enjoy how easy the AFS website makes it to upload plans for assessment and estimation.



Customers enjoy ready reference to technical manuals, papers and design guides



PVC-based permanent formwork for basements, columns, blade & party walls, lift & stair cores, retaining walls and retention tanks



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