



PERMANENT POLYMER FORMWORK FOR RESIDENTIAL, COMMERCIAL, INDUSTRIAL AND CIVIL APPLICATIONS

THE NEXT LEVEL.



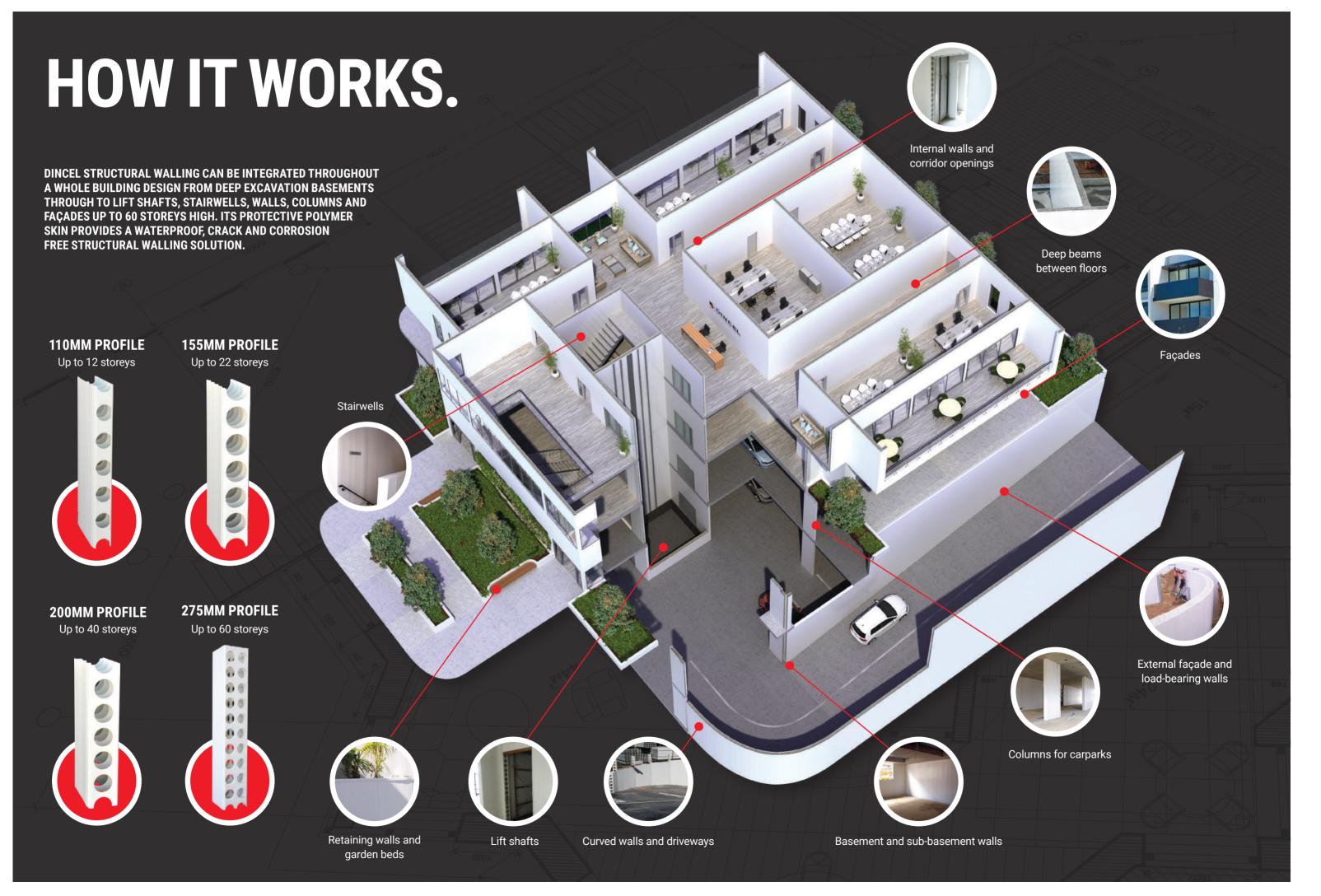




DINCEL ORIGINATED AS AN ENGINEERING FIRM BACK IN 1977 BY BURAK DINCEL. IN 2006, THE PRODUCT KNOWN AS DINCEL WALLING WAS ENGINEERED AND MANUFACTURED TO WHAT IS NOW A LEADING STRUCTURAL WALLING SOLUTION FOR BUILDING AND CONSTRUCTION.

Dincel permanent formwork has been developed to meet the demand and pace of today's building developments; addressing cost, speed, compliance, defects, design possibilities, building longevity and liveability. Dincel Structural Walling enables load bearing walls and columns to be constructed at lower cost, in less time and with lower skill demand than by traditional masonry or concrete. Following five years of worldwide research and development, extensive consultation with engineers, architects, builders and developers, evaluation and certification by Universities and the CSIRO and also feedback from building trades, Dincel Structural Walling has emerged as an advanced, innovative, and mature solution to many of today's construction problems.







# **OUR PRODUCT.**

Dincel Structural Walling is different to traditional concrete formwork. A unique patented snap-lock joint connects the Dincel panels for fast and easy installation, delivering a fully waterproof wall when filled with concrete. It's also lightweight for greater safety and manoeuvrability on-site.

- LIGHTWEIGHT
- 'SNAP-LOCK' TECHNOLOGY
- **✓** FAST INSTALLATION
- ✓ HELPS PREVENT MOULD & MILDEW
- LESS REINFORCING
- **✓ NO AIR VOIDS**
- ✓ INTERNAL CRACK CONTROL
- FIRE RESISTANCE TESTED
- EASY TO RENDER OR CLAD
- **✓ WATERPROOF CERTIFIED**



WITH DINCEL STRUCTURAL WALLING, 50% CONSTRUCTION TIME SAVINGS CAN BE ACHIEVED.













#### **AS3600 COMPLIANT**

Dincel Walls and Columns can be designed in accordance with AS3600 Concrete Structures Code, as certified by the University of New South Wales.



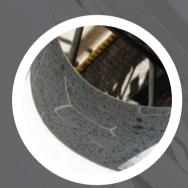
#### LESS REINFORCEMENT

Designed with an impervious vapour barrier for both faces along with built-in crack control joints that eliminate the need for crack control steel.



#### **INCREASES CONCRETE STRENGTH**

Dincel Wall encapsulation achieves greater concrete strength by minimising moisture evaporation throughout the curing process.



#### **NO AIR VOIDS OR HONEYCOMBING**

Dincel's polymer formwork is impervious and does not suck water from wet concrete, therefore preventing honeycombing and air voids in concrete infill.



# PREVENTS CONCRETE CANCER

Conventional concrete is porous which leads to corrosion and concrete degradation issues.

Concrete cracking is unavoidable and inadequate concrete cover, honeycombing and air voids can lead to concrete cancer.



AIR VOIDS AND HONEYCOMBING CAN LEAD TO STRUCTURAL ISSUES AND NON-COMPLIANCE IN FIRE AND ACOUSTICS.







## RESIDENTIAL CONSTRUCTION

Columns, load-bearing walls, façades, basements, lift shafts, stairwells, swimming pools, planter boxes and fences.

#### **COMMERCIAL CONSTRUCTION**

Columns, load-bearing walls, façades, basements, lift shafts, stairwells, swimming pools, planter boxes and fences.

### **CIVIL & INDUSTRIAL CONSTRUCTION**

Columns, load-bearing walls, cable pits and substations.

#### WATER TANKS & RESERVOIRS

Water (detention, retention, stormwater pits), waste water, sewerage, sludge, petrol, manure, grain and contaminated soil.

#### **CUSTOM PROJECTS**

An extensive range of profile components available, many curved configurations and other enclosures can be achieved.



"UTILISING DINCEL AS A
LOADBEARING WALL SYSTEM
IN LIEU OF CONVENTIONAL
COLUMN-SLAB-INFILLS ACHIEVED
A MOST COST-EFFICIENT FLOOR
SYSTEM, WITH A SIX MONTH
TIME SAVING FROM OUR
CONSTRUCTION PROGRAM. ON
SITE, THE DINCEL WALLS WERE
ALSO EASY-TO-HANDLE. THERE
WAS NO RELIANCE ON CRANES,
THE SITE WAS CLEANER WITH
REDUCED WASTAGE."

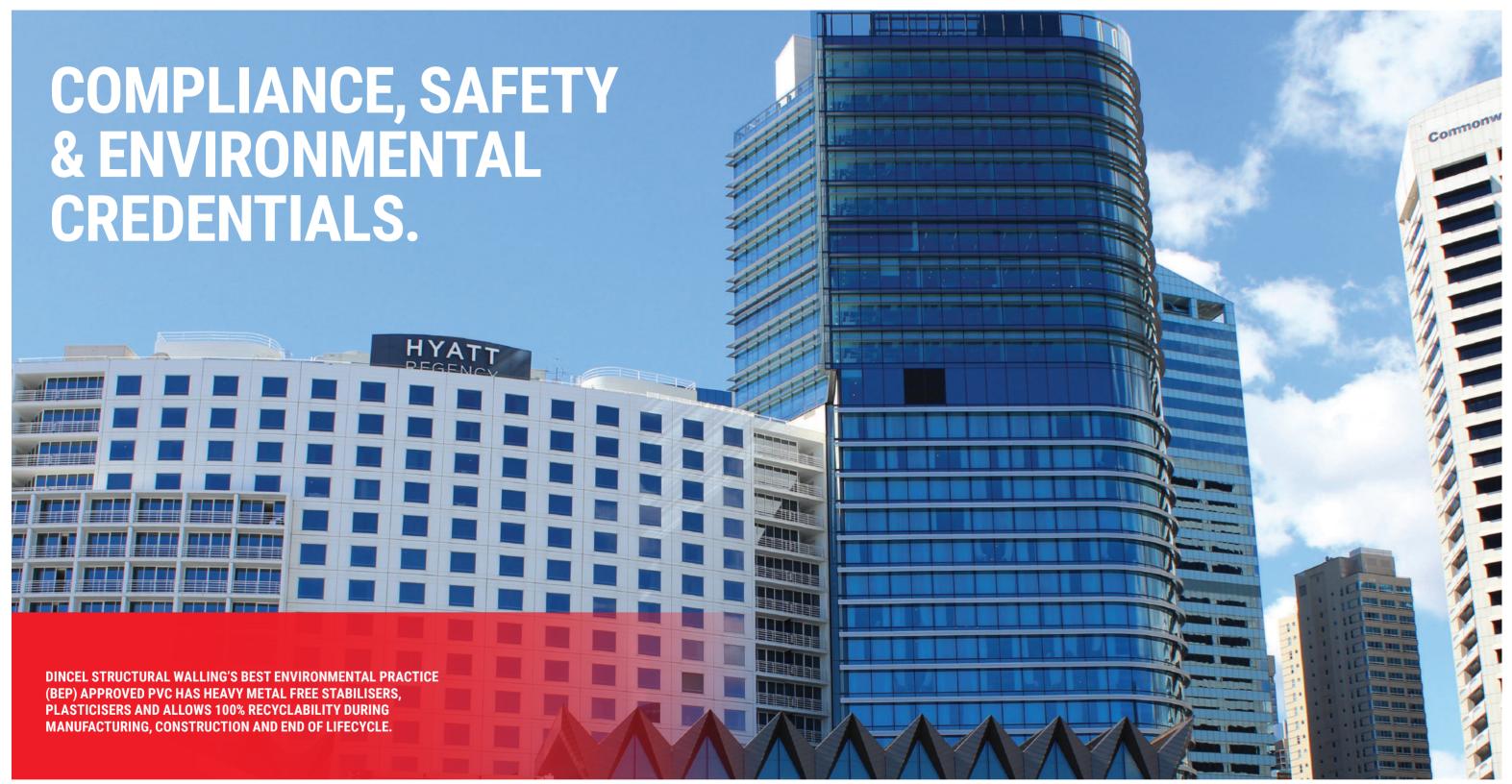
Charbel Barakat Manager, Ceerose Property Grou



#### PROJECT: CEEROSE APARTMENTS

Location: Camperdown, NSW Profiles: 110mm, 200mm Application: Basement, party walls, lift/stair/service shafts, deep beams, blade columns, and façade walls







#### **WORKPLACE SAFETY**

Reduction of non-skilled labour due to the ease of handling and installation. Dincel Walls minimises the risk of back injuries, trip hazards, falling from heights and other common WHS injuries and issues.



#### FIRE COMPLIANCE

Tested by a NATA registered laboratory.
• Fire rated 90 - 240 minutes

- Deemed to satisfy ISO 9705
- Group 1 SMOGRA 17
- Performance solution AS5113 / BS8414



#### **ACOUSTIC TESTED**

CSIRO acoustically tested walling solutions for complete peace of mind.



#### **VOC TESTED**

Dincel Walls are tested for toxicity and VOC (non-toxic tested). Dincel's Volatile Organic Compound (VOC) measurement is 50 times less than the recommended Green Star environmental threshold making it a proven choice for sustainable construction.



#### **EARTHQUAKE TESTED**

Dincel Walls with concrete infill can create earthquake, cyclone and hurricane resistant buildings through ductile composite action, thus achieving greater safety for occupants than offered by concrete alone.



#### **WATERPROOF**

Waterproof certified by CSIRO. Dincel's range includes products that are certified up to 6 meters of water pressure at the panel joints.







Adhering a textured and coloured render product to Dincel Walls provides a cost effective solution to painted concrete.

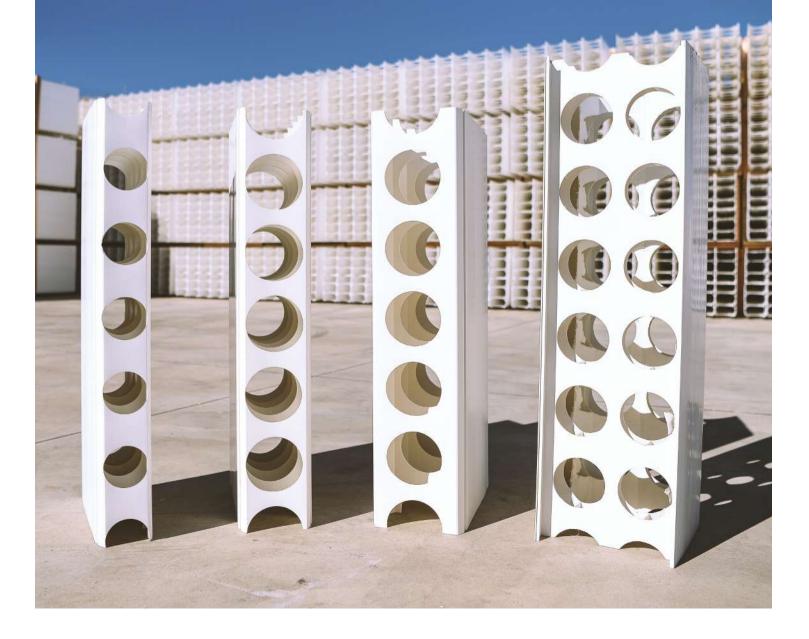
Stone, timber and many other cladding design options can be easily achieved with acrylic adhesives.

An increasingly popular architectural design alternative is the subtle lines of the original Dincel Wall or painted to style.

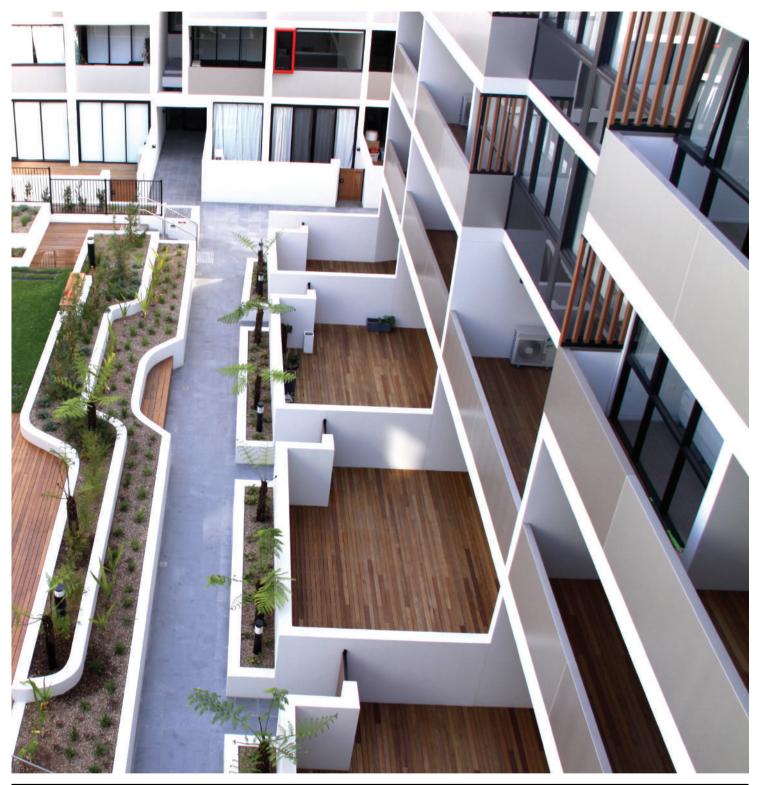




LESS STEEL, CONCRETE, EXCAVATION, LABOUR & COSTS









#### Jacobsen

41 Morrin Road, Mt Wellington Auckland 1072, New Zealand

p 0800 800 460 f 0800 800 461 e customer,services@jacobends.co.nz

www.jacobsens.co.nz

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