

TUBULAR CORE DOORS (ZE-TCLW)

"light-weight doors with solid-core benefits"



PRODUCT SPECIFICATION

PREPARED BY **ZODD ENTERPRISES PTY LTD**

AS PROPRIETARY PRODUCT FOR OPAL HEALTHCARE



CONTENTS:

01

OVERVIEW

02

TUBULAR CORE DOORS

03

CHALLENGES

04

SOLUTION

05

PERFORMANCE CAPABILITIES

06

PRODUCT COMPARISON

07

DOOR FACE FINISHES

08

TECHNICAL DATA

09

DOOR SIZE CHART

10

FRAME SUPPLY

11

PROJECT HISTORY

12

PREVIOUS PROJECTS

13

CONTACT US



OVERVIEW

Since 2019, Zodd Enterprises has successfully supplied and distributed the ZE-TCLW door system across numerous NSW OPAL HealthCare projects, demonstrating a strong track record in delivering reliable, high-quality solutions for the healthcare and aged care sectors.

Supported by an established supply chain and distribution network, Zodd Enterprises has the capability to expand supply and delivery services beyond NSW into QLD VIC, and the ACT, ensuring consistent product availability and project delivery across multiple Australian markets.

Zodd Enterprises has designed a unique product that addresses many of the issues with weight V density of internal doors. This product has become a proprietary product for OPAL Specialist Aged Care Facilities throughout NSW.

CHALLENGES

Class 9C building environments require careful consideration of several key design and performance factors to ensure functionality, compliance, and long-term durability. The following challenges are commonly encountered in the specification and selection of suitable door systems:

01.

Oversized doorway requirements

Sole occupancy units and ensuites often require larger openings for compliance and accessibility.

02.

Acoustic performance

Doors must help maintain appropriate sound separation to ensure privacy, comfort, and a suitable living environment for residents.

03.

Long-term durability of the doors

High-use environments demand doors that withstand constant wear over time.

04.

Weight and OH&S

Door weight impacts ease of operation, maintenance, and manual handling safety.

SOLUTION

The ZE-TCLW Tubular Core door system is an alternative product specification for resident entry and ensuite doors in Class 9C buildings, offering a lightweight solution with the performance benefits of a solid-core door. Designed for aged care environments, it provides improved ease of operation, durability, and long-term reliability in high-use commercial/residential settings.

Reduced Door Weight (Up to 60%)

ZE-TCLW doors reduce overall door weight by up to 60%, improving handling, installation, and everyday operation.

Acoustic Performance

Delivers acoustic performance comparable to solid-core doors, supporting privacy and comfort.

High Impact Resistance

Designed for durability in high-traffic environments with strong resistance to impact and wear.

Internal Application Suitability

Suitable for most internal doors, with a focus on oversized resident entry and ensuite openings.

PERFORMANCE CAPABILITIES

01.

Approximately 60% lighter than solid-core doors, making them easier to handle and install.

02.

Adjusts 5–7% faster to moisture differentials, helping maintain consistent performance.

03.

Suitable for bathroom and bedroom applications, where durability and stability are important.

04.

High screw withdrawal strength provides secure hardware fixing and long-term reliability.

05.

Low thickness swelling helps maintain dimensional stability in varying conditions.

06.

High impact resistance offers enhanced durability against everyday wear and tear.

Products Used Often

Depending on project requirements, oversized doors have previously been specified/manufactured in solid-core, hollow-core, or foam-core configurations.

Tubular core ZE-TCLW construction is an effective, alternative for:

- resident entry doors,
- resident ensuite doors,
- sliding door systems.

PRODUCT COMPARISON

PRODUCT	WEIGHT	WEIGHT PER M ² (40mm)	ACOUSTICS	IMPACT RESISTANCE	COST	WARRANTY
SOLID-CORE DOORS	Medium	23.9KG/M ²	High	High	\$\$\$	5 Years
HOLLOW-CORE DOORS	Ultra Light	7.78KG/M ²	Low	Low	\$	5 Years
FOAM-CORE DOORS	Ultra Light	8.3KG/M ²	Low	Low	\$\$	5 Years
TUBULAR-CORE DOORS (ZE-TCLW)	Light	13.3KG/M ²	High	High	\$\$	5 Years

Tubular-core doors offer the best balance of weight, performance, and cost, delivering high acoustic and impact resistance without the weight and expense of solid-core doors. Compared to hollow-core and foam-core alternatives, they provide significantly improved durability and performance.

PRIMED HDF

Supplied pre-primed and ready for painting, Primed HDF provides a smooth, consistent surface that can be finished in any colour to suit the project's design requirements.

HPL (HIGH PRESSURE LAMINATE)

Available in a wide range of colours, textures, and finishes from the Polytec collection, HPL offers a durable, low-maintenance surface with excellent resistance to wear and everyday use. Refer to the Polytec catalogue for available options.

PLANT-ON MOULDINGS

Plant-on mouldings provide a decorative panelled appearance, adding visual depth and character to door designs while maintaining the performance benefits of the door construction.

DOOR FACE FINISHES



TECHNICAL DATA

Tubular-core doors are designed for internal applications, combining a lightweight tubular particleboard core with durable Primed HDF facings. Manufactured to AS2688-2017 standards, they deliver reliable acoustic performance, low formaldehyde emissions (E1 classification), and are backed by a 5-year warranty.



APPLICATION

INTERNAL DOORS

CORE

TUBULAR PARTICLE BOARD

FACINGS

PRIMED HDF (OTHER LAMINATED FACINGS
AVAIL)

WEIGHT

APPROX. 13.3KG/M² (40MM)
12.8KG/M² (35MM)

ACOUSTICS

30DB-40MM, 27DB-35MM

FORMALDEHYDE EMISSIONS

E1 CLASSIFICATION

AUSTRALIAN STANDARDS

MANUFACTURED IN ACCORDANCE
WITH AS2688-2017

WARRANTY

5 YEARS

DOOR SIZE CHART

TUBULAR CORE DOORS 35mm

Size		HDF Code	HPL Code	(NEW) MOULDED DECORATIVE
H	W			
2045	820	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2100	450	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2100	920	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2100	1020	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2100	1200	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2400	450	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2400	920	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2400	1020	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD
2400	1200	ZE-TCLW35	ZE-TCLW35-LAM	ZE-TCLW35-MLD

Our door size chart showcases the door size ranges available.

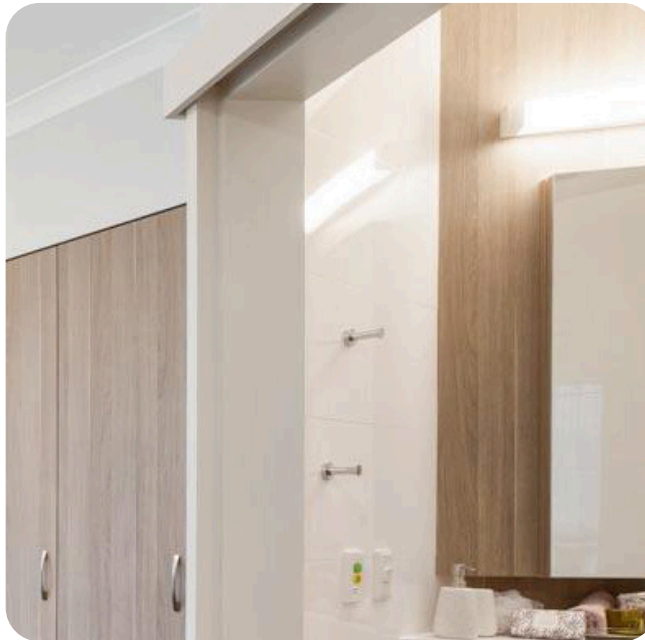
TUBULAR CORE DOORS 40mm

Size		HDF Code	HPL Code	(NEW) MOULDED DECORATIVE
H	W			
2045	820	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2100	450	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2100	920	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2100	1020	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2100	1200	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2400	450	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2400	920	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2400	1020	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD
2400	1200	ZE-TCLW40	ZE-TCLW40-LAM	ZE-TCLW40-MLD

We can also supply custom sizes catering to all varying project requirements.

FRAME SUPPLY

Frames can be supplied in a variety of profiles to suit most wall types and project requirements, including Partition Styles, New Gen, Tubefixed, Blockwork, and a special sliding door profile with an extended stop as used on OPAL Care projects. Manufactured for durability and seamless installation, our frames are suitable for residential, commercial, healthcare, and large-scale construction applications. Australia-wide shipping is available, with reliable delivery to metropolitan, regional, and remote locations.



PROJECT HISTORY

For over 10 years, we have supplied tubular ZE-TCLW core doors to varying hotel developments. Since 2019, we have expanded into the aged care sector, supplying doors for Opal Care residential projects across New South Wales.

PREVIOUS

- Opal Care Wallarah Point
- Opal Care Toongabbie
- Opal Care Seaside-Warriewood
- Opal Care Glenmore Park
- Opal Care Marsden Park

CURRENT

- Opal Care Carlingford
- Opal Care St Clair



PREVIOUS PROJECTS



OPAL WALLARAH POINT



OPAL SEASIDE ROOM AND DOOR VIEW



OPAL SEASIDE ENSUITE DOOR



OPAL WALLARAH POINT

PREVIOUS PROJECTS



OPAL SEASIDE



OPAL GLENMORE PARK



OPAL WALLARAH POINT



OPAL MARSDEN PARK

CONTACT US

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