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Decca
GRP Specialists

GRP HOUSINGS & WALK-IN ENCLOSURES

GENERAL DESIGN SPECIFICATION

Document No. D-020.2

PRODUCT	DOCUMENT	BRAND
GRP Housings & Enclosures	General Specification	Decca GRP Specialists

Where Experience Meets Excellence

Technical specification for Decca Plastics Ltd GRP housings and walk-in enclosures covering construction, materials, doors, access, floors, ventilation, insulation, electrical options, foundations and factory quality requirements.

Quality assured
50+ Years of Industry Expertise
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Reliability You Trust. Excellence You Expect.

GRP Housings & Walk-In Enclosures
- *General Design Specification*

Where Experience Meets Excellence

DOCUMENT NO.	COMPANY	DOCUMENT TYPE
D-020.2	Decca Plastics Limited	Technical Specification

1. General Construction

Decca-supplied GRP cabinets, housings and walk-in enclosures are manufactured by approved specialist UK GRP partners to the agreed Decca / project specification. Units use hand-laid GRP construction and can be supplied fully assembled or in sectional form where size, transport or site access requires.

QUALITY	MANUFACTURE	COLOURS	CONFIGURATION
Decca ISO 9001	Approved UK supplier	14 C 39 / 10 A 07	Standard / bespoke

Manufacturing & Material Summary

Property	Specification
Method	Hand-lay GRP
Resin	Polyester
Reinforcement	E-glass fibre
External finish	UV-stabilised gel coat
Standard colours	BS 4800 14 C 39 / 10 A 07
Assembly	One-piece / sectional
Doors	Hand-lay method
QA	Approved polyester resin

- UV-stabilised external gel coat for resistance to weathering and fading.
- Current supplier products use a half-hour fire-retardant internal resin layer.
- Timber / plywood reinforcement is incorporated where required.
- 304 stainless-steel fittings are used across the current product range.
- UV- and frost-resistant neoprene door seals support weather protection.
- Integral bolt-down flanges support secure installation to the prepared base.



Representative double-door enclosure

2. Materials & Standard Features

The current enclosure range combines GRP body construction with durable weather-resistant finishes and hardware suited to external equipment protection. Standard features vary by model and final project configuration.

3. Door Systems & Access

Typical Decca project door openings are 762 x 1982 mm for a single door and 1524 x 1982 mm for double doors, opening outward. Single doors may be left- or right-hand hung. Where an enclosure is too small for these typical sizes, the door arrangement is adapted to suit and confirmed at drawing approval stage.



90° stainless door stay



Hasp & staple option



Cylinder night-latch option

Door and lock control

Final door size, handing, locking system, door stays, seals and any tower bolts are confirmed by quotation and approved drawing. Optional three-point locking is available on applicable products.

4. Floors (Optional)

Standard housings are normally open-bottomed for positioning over existing equipment or a prepared plinth. An integrated floor can be provided where the project requires a complete base.

Optional integrated floor

Plywood base mounted on treated softwood bearers and GRP encapsulated to seal into the enclosure. Typical build-up is approximately 90 mm, subject to final loading and project design.

5. Fixings & Hardware

Current product door hardware and fittings are generally stainless steel. Other external structural or assembly fixings shall be stainless steel or suitably corrosion protected for the intended environment.

6. Ventilation, Cable Entry & Handling

Optional aluminium louvres, high / low ventilation, cable or gland entries, lifting eyes and alternative locking arrangements can be incorporated subject to project review.



Representative enclosure configuration

Typical project options

- Aluminium ventilation grilles.
- Cable / gland access positions.
- Lifting eyes and handling provisions.
- Alternative locking systems.
- Door stay and access arrangements

7. Maintenance Access

Maintain a minimum 500 mm working clearance around the enclosure, with additional clear space in front of doors and around serviceable equipment where required. Final access must reflect the installed equipment and the site safe system of work.

WORKING CLEARANCE	DOOR ACCESS	MAINTENANCE
500 mm	**CLEAR**	**Access**
Recommended around the enclosure.	Allow full outward door swing.	Retain space for inspection and service.

Working access should be maintained for future inspection and maintenance.

8. Foundation

Install on a flat, level concrete slab or plinth. Concrete should be minimum C20/25 to BS 8500, steel-float finished and preferably raised above surrounding ground level. Where used, the internal plinth should typically be approximately 150 mm smaller than the clear internal enclosure dimensions.

9. Insulation & Thermal Options

- Plywood core: indicative thermal conductance 2.96 W/m²K.
- PU foam 25 mm: 0.72 W/m²K.
- PU foam 50 mm: 0.40 W/m²K.
- PU foam 75 mm: 0.27 W/m²K.
- Foam to be CFC / HCFC free with ozone depletion factor 0.

Thermal performance note
Published values are indicative of the standard build-ups and should be confirmed against the final project-specific construction, openings and certification requirements.

10. Internal Backboards & Mounting



An 18 mm pre-mounted plywood backboard is provided on applicable current cabinet and walk-in ranges unless otherwise stated. Panels may also be specified with a 12mm plywood core or insulation where required by the selected product / project.

11. Sectional Construction & Sealing

Where sectional delivery is required, enclosure sections shall be assembled to the approved drawing using the specified jointing and fixing system. Joints shall be sealed with a suitable approved weather-resistant sealant in accordance with the selected construction and project requirements.



Representative larger walk-in enclosure

12. Electrical Package (Optional)

Electrical components are optional. Decca can supply loose items or a pre-mounted package to suit the project requirements.

Distribution	Lighting	Heating
4-Way Consumer Unit	LED Bulkhead	Frost Protection
100A / 230V with 3 MCBs fitted and 1 spare space.	15W LED complete with standard metal light switch.	16A frost thermostat and 40W tubular heater with guard.

Pre-mounted packages are wired and electrically tested before dispatch. Final site connection, testing and certification shall be undertaken by a suitably qualified electrician unless specifically included within Decca's scope.

13. Performance & Project Options

Performance is dependent on the complete enclosure design, including laminate construction, doors, vents, cable entries and other openings. Any required performance rating must be confirmed in the Decca quotation / approved drawing and, where applicable, supported by product-specific certification.

Performance	Project basis
Fire	Current supplier products use a half-hour fire-retardant internal resin layer; higher / certified ratings subject to selected build-up and certification.
Ingress	IP55 or higher project configurations may be available only where the complete design, openings and certification permit.
Acoustic	Up to approximately 20 dB sound reduction may be available by project, subject to source, frequency and final construction.

Project-specific performance
Final fire, ingress and acoustic requirements should be identified before manufacture so the selected construction and any supporting certification can be confirmed.

14. Product Range Overview

The current Decca supply portfolio covers compact cabinets through to large walk-in enclosures. Full model sizes are published in the separate GRP Enclosures & Cabinet Range brochure; this general specification sets the construction and project-selection basis.

Product family	Typical configuration	Reference
S Series	Compact single-door GRP cabinets	S1, S2, S3, S5
D Series	Larger double-door GRP cabinets	D2-D7
W1-W4	Flat-roof walk-in enclosures	2000 mm nominal height
W5-W28	Apex-roof walk-in enclosures	2500 mm nominal height



Cabinet range



Flat-roof walk-in



Apex / larger walk-in

14. Common Modifications & Project Options

Project item	Typical available configuration
Doors / locks	Single / double; handing; standard and upgraded locking
Colours / panels	14 C 39 / 10 A 07; other BS / RAL / BS5252; plywood / insulation
Ventilation / entries	Vents, cable access, gland areas and penetrations
Mounting / handling	18 mm backboard, reinforcement, lifting eyes, bolt-down flanges
Delivery	One-piece or sectional to suit size, transport and access

16. Quality Assurance, Delivery & Specification Control

Units are factory inspected before delivery for workmanship, agreed accessories and general condition. They may be supplied assembled or sectional to suit size, transport and access. Final dimensions, handing, colour, openings, backboards and accessories shall follow the approved drawing and order.

Specification precedence
The Decca quotation and approved drawing define the enclosure supplied. Project-specific doors, colours, floors, insulation, ventilation, cable entries, locks, electrics and performance requirements must be confirmed before manufacture. Project quotations and approved drawings take precedence over this general specification.

SCAN TO GET IN TOUCH

Expert Support When You Need It Most

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Decca GRP Specialists

At Decca, we're committed to providing outstanding service at every stage of your project. From product selection and project planning to technical support and aftercare, Decca's dedicated specialists are on hand to provide the advice and assistance you need.

Simply choose the department below, and we'll connect you with the right expert.

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