Systems, 8

Modfacades, 10
- Design and production process, 12
- Testing, 14
- Technical details, 16
- On site installation, 22

Monobath Monokitchen, 24
- Design and production process, 26
- Construction process, 30
- On site installation, 36

Services, 38
Engineering, 40
Production, 42
Control de calidad, 46
Logistics, 48
Execution, 52

Projects, 56
At present, the construction sector is characterized by the acceleration of manufacturing processes and on site installation to reduce lead times.

In order to fulfil this objective, the priority requirement is to undertake a personalized study of the projects, with efficiency and quality control as fundamental characteristics.

In addition to this need for ever shorter lead times, there is a greater demand for quality of finishes by the end user, especially when it comes to high-end products.

This market trend affords us an excellent opportunity to expand our range of products and services.

This is how the new UNIT-SYSTEMS comprehensive construction solutions were conceived, with the PORCELANOSA Group guarantee.
The comprehensive construction solutions UNIT-SYSTEMS from PORCELANOSA Group are made up of MODFACADES, MONOBATH and MONOKITCHEN, combining the exclusivity of the materials, the quality of the finishes and the PORCELANOSA guarantee; together with the intrinsic advantages offered by prefabricated systems such as reduced lead times and improved control and traceability of the project.

A single partner with extensive experience able to combine perfectly industrialized construction and interior design since all the materials used are manufactured by companies within the Group and the installation by their skilled labour force.

This outsourcing process, in which the management of all the trades is undertaken off site offering multiple advantages, freeing up the site and project management from a significant workload, reducing execution times and ensuring a timely signing off.
BUTECH, PORCELANOSA Group’s subsidiary engineering company, presents UNIT-SYSTEMS, our new line of finished construction systems that are ready for installation, consisting of:

MODFAÇADES - Modular façades.
MONOBATH - Pre-assembled bathroom module.
MONOKITCHEN - Pre-assembled kitchen module.
The façade modules are supplied completely finished from the factory with the insulation, structure and requested PORCELANOSA wall tile finish.

Given the use of guided anchor rails the modular system facilitates assembly and levelling of the pieces, shortening project construction deadlines.
Design and production process

**MODFACADES**

**Consulting**
- Phase 2
- Coordination & technical consultancy between Bultech & the Design team
  - (2 Weeks)

**Estimate**
- Phase 4
- Preparation of final quote
  - (4 Weeks)

**Acceptance**
- Phase 5
- Acceptance of date and contractual agreement
  - (Depending on project)

**Preparation**
- Phase 6
- Preparation of development of documentation for the manufacture and on-site installation
  - (3 Weeks)

**Production**
- Phase 8
- Manufacture of panels and anchorage in our workshop
  - (4 Weeks)

**Installation**
- Phase 10
- Layout and installation of modular façade
  - (Depending on project)

**Design**
- Phase 1
- Design proposal for the building envelop by the architect
  - (Depending on project)

**System prescription**
- Phase 3
- (Depending on project)

**Stockpiling**
- Phase 7
- Stockpiling of necessary material
  - (6 Weeks)

**Supply**
- Phase 9
- Stockpiling of necessary material
  - (Depending on project)
Testing

Fire resistance
Euroclase B-s1-d0

Acoustic resistance with cladding
RA, tr: 49.6 dBA

Acoustic resistance without cladding
RA, tr: 44.2 dBA

Air permeability
(UNE-EN 12153:2000)
600Pa – A4

Water tightness under static air pressure
(UNE-EN 12155:2000)
600Pa – R7

Wind load resistance
(UNE-EN 12179:2000)
1500Pa

Fire resistance
Euroclase B-s1-d0

Testing undertaken by the following institute:
Quick and easy assembly on guide rails.
On site installation

1. Setting out and placement of anchorages.
2. Sling positioning for lifting.
3. Panel lifting.
4. On site installation/panel hanging.
5. Regulation and adjustment of the panels.
6. Installed panel.
The bathroom and kitchen units include all interior finishes, furniture, sanitary ware and accessories, such as plumbing and electricity, all ready for use. A construction system that ensures quality and reduces lead times.

The system makes for quick and efficient on-site installation, the units are taken to and introduced into their final location with no more requirements than lifting equipment and a gap in the cladding/walling through which to insert the bathroom or kitchen.
Construction process

MONOBATH MONOKITCHEN

Basic project
Build specifications
(2 Weeks)

Project review and improvement
Material stockpiling
(4-5 Weeks)

Process engineering
Production start-up
(8-10 Semanas)

Production
Phase 4

Technical analysis of the project
Undertaking estimates

Pilot unit production
Phase 3

Fast and accurate installation by experts
Technical assistance by own staff
(Time according to project)

Units packaging and sealing
National and international transport
(Time according to project)

Logistic
Phase 6

Implementation
Phase 7

Phase 2

Phase 5

Quality control

Current regulations control
Warranty PORCELANOSA
Traceability

Customer satisfaction

PORCELANOSA quality and after-sales service

Need satisfaction
Phase 1

Engineering

(4 Weeks)

Phase 8
Construction process

MONOBATH
MONOKITCHEN
Interior customisation.
Construction and finishing in our factory.
On-site installation prior to placement of façade cladding/walling.
All the materials used in the MONOBATH and MONOKITCHEN modules are selected from companies in the PORCELANOSA Group. The commissioning of the units is carried out by professionals with extensive experience in the placement of ceramic products and bathroom accessories, thus ensuring their correct installation and minimise the possibility of any after-sale service requirements.

Any models produced within the PORCELANOSA Group can be used in these bathroom and kitchen units without any restrictions of the available space: from L’ANTIC COLONIAL mosaics to large format ceramic tile laminates by URBATEK, in addition to other complements such as ceramic sanitaryware, faucet fittings, shower trays, mirrors and other accessories; all strictly supervised directly by technical staff at GAMADECOR, NOKEN and KRION, PORCELANOSA Group companies specialising in these products.

In this way, the coincidence between material supplier, manufacturer and installer becomes the best guarantee of these industrialized bathroom and kitchen units.
On site installation

1. Positioning on a lifting platform.
2. Sling positioning on a platform.
3. Lifting.
4. Placing and fixing the platform on the edge of the floor slab.
5. Movement along the floor to the units definitive position.
6. Unloading and levelling.
Services

Our services speak to:

- Tailoring the offer for every project.
- Quality.
- Efficiency.
- Sustainability
- Speed.
- Control.

All the advantages of having a single partner with the guarantee of PORCELANOSA Group.
Services

Engineering

BUTECH’S technical team, with extensive experience in ventilated façades and modular systems, is at the service of the PORCELANOSA Group customers in all phases of project development; from the modulation and choice of materials through to final commissioning.

A highly qualified team dedicated to the development of national and international projects.
Production

Cutting-edge installations for products with high added value.
Production control highly qualified personnel.
Services

Quality control

Our team’s expertise and the resources available to them allow us to carry out standardized tests in our own facilities and control the traceability of our products.

Scrupulous respect for the most demanding national and international standards.

PORCELANOSA Quality and total Guarantee.
Logistics

Our logistic capacity and experience make it possible for us to send our projects anywhere in the world.

Perfectly packaged units, ready for transport and easy commissioning.
Technologically advanced facilities.
Execution

From local projects to large international projects, our teams ensure the correct execution and assembly of UNIT-SYSTEMS.

Guaranteed quality levels and execution times.
Rigorous controls of on-site installation.
Projects

Some examples of projects that have been supplied with modular UNIT-SYSTEMS.

Terrazas del Lago
Apartment building in Madrid, Spain
Architect: MORPH Studio
Architects and specifiers around the world trust in Butech for the execution of their projects.
Institut d’Optique d’Aquitaine
Research Institute in Talence, France
Architects: Nicolas Ragueneau and Antoine Roux
La Fiduciaire
Office building in Bordeaux, France
Architects: Nicolas Ragueneau and Antoine Roux

Berkshire House
Apartment building in Maidenhead, United Kingdom
Architect: Goddard Manton Architects
Vicarage Road Stadium
Watford FC Football Stadium in Watford, United Kingdom
Shenzhen Zhangzhou
Mall and apartments in Shenzhen, RPC
Architect: Peddle Thorp
Terrazas del Lago
Apartment building in Madrid, Spain
Architect: MORPH Studio
Immuable Docteur Pierre
Office building in Nanterre, France
Architect: Reichen Robert Associés Archit Urb
Commercial and Cultural Center Paseo Aldrey
Shopping center in Mar del Plata, Argentina
Architect: Mariani Pérez – Maraviglia Arquitectos