



CONSTRUCTION PRODUCT DEVELOPMENT AND THIRD PARTY CERTIFICATION

Offsite Construction Technology Experts

**Light Gauge Steel Building Systems
Offsite Modular Building Systems
Project Management of
Third-Party Certification
CE Marking**

**Project Management and Design of Fire & Acoustic
Testing
Development of Innovative Construction
Products**

PRODUCT DEVELOPMENT AT WORK FOR YOU

CONSTRUCTION PRODUCT DEVELOPMENT SOLUTIONS

Evolution Innovation has a very strong background in the areas of Building Product and Offsite Building System Development, in particular in the fields of

- ▶ Modular Design
- ▶ Light Gauge Steel Panellised systems
- ▶ Insulated Concrete Formwork (ICF)
- ▶ SIP Panel
- ▶ Product Development of Innovative construction Products.

COMPLETE CE MARKING SOLUTIONS

Construction Product Regulations have made CE marking of construction products mandatory.

We offer services in

- ▶ CE Marking
- ▶ Declarations of Performance (DoPs)
- ▶ Factory Production Control
- ▶ Commissioning of Product and Material Type Testing.



VALUE PROPOSITION

The experience of Evolution can reduce the costs of Third Party Certification and testing by simplifying this necessary but onerous process, through our fundamental understanding of the overall assessment process. This will result in significant savings in time and money and ultimately bring your product to market early.

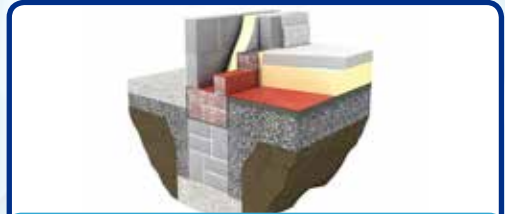
INNOVATION AND EXPERTISE COMBINED TO PROVIDE OPTIMUM SOLUTIONS

Evolution have the in-house specialised skills and experience to either help you develop construction products or systems from an initial concept or take an existing construction product and enhance it to meet the ever changing market demands and building regulation requirements.

We can advise you of the development steps required to bring your construction product to the forefront of the market, keeping you ahead of your competitors, using the principles of the stagegate process.



FUSION BUILDING SYSTEMS PATENTED THERMALLY BROKEN WALL TIE BRACKET SYSTEM



AWARD WINNING ROADSTONE THERMAL LITEBLOCK PROVIDING ENHANCED PSI VALUE

OUR INNOVATIVE AND HOLISTIC APPROACH TO PRODUCT DEVELOPMENT RESULTS IN SIGNIFICANT COST SAVINGS FOR OUR CLIENTS

EARLY ENTRY TO MARKET WITH THIRD PARTY CERTIFICATION

PROJECT MANAGEMENT OF TESTING

Evolution will provide guidance on test design and will supervise all testing of the construction products required to be carried out by accredited test laboratories.

FIRE AND ACOUSTIC TESTS

We are recognised as experienced and leading experts in the commissioning of load-bearing fire resistance tests, acoustic laboratory and field tests, weather resistance tests and tests for other building product and system performance characteristics.



FULL SCALE FIRE TEST

PROJECT MANAGEMENT OF THIRD PARTY CERTIFICATION

Evolution are experts in Independent Third Party Certification of innovative construction products and Offsite Building Systems as we have both successfully managed applications for certification and been engaged by notified bodies to assess applications. Evolution has achieved certification with NSAI Agrément, LABC, NHBC, BOPAS, BBA, SCI and BRE for a wide range of products and Offsite Building Systems.



BEFORE AND AFTER PICTURES OF LOAD BEARING EN1365-1 : 2012 FIRE TEST



FIRE TEST IN PROGRESS



CONSTRUCTION PRODUCT DEVELOPMENT CONSULTING
PROVIDING TOTAL END-TO-END DESIGN SOLUTIONS

PROVEN TRACK RECORD

- ▶ Instrumental in the design and product development, testing and execution of a 25-storey Modular Structural Building System
- ▶ Achieved BBA, BRE (LPS 2020), NSAI Agrément, LABC, BOPAS, and SCI Certification for numerous Offsite Building Systems and construction products
- ▶ Product development, design, testing and certification of Light Gauge Steel Building Systems from 2-storey housing to 10-storey residential, institutional and commercial buildings such as schools, care homes and hotels
- ▶ Designed, developed and obtained certification of first single skin external insulation cladding system to achieve 60-year design life in Ireland
- ▶ Evolusion has developed a two hour structural wall just 92mm in thickness
- ▶ Successfully designed and 3D thermally modelled a full set of building junction details for various systems
- ▶ Developed high performing acoustic walls for modular construction
- ▶ Commissioned numerous Structural fire tests to various standards including EN1365-1: 2012.



VISION MODULAR BBA, BOPAS & LABC
CERTIFIED 25 STOREY MODULAR
BUILDING SYSTEM

Our other areas of expertise include those listed below.

- ▶ Offsite Structural Engineering
- ▶ Offsite BIM and Framing
- ▶ Value Engineering
- ▶ Turnkey Design Solutions
- ▶ Structural Engineering Design
- ▶ Approved Thermal Bridging Analysis
- ▶ BBA Certified U-value Calculations
- ▶ Dynamic Simulation Modelling
- ▶ Daylight analysis
- ▶ Building Energy Assessments (SAP, BER)
- ▶ Quality Engineering

Evolution Innovation's Services are backed by Independent Third Party Certification and Competency Qualifications



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