

Sector Experience

Department Stores/Retail Chains

Objectives >

- >Meet Building Regulation requirements including safe and efficient means of escape & fire fighting access.
- >Maximise retail space and meet the functional and architectural design requirements.
- >Minimise overdesign.

Our Service >

Performance based Fire Engineering

- >Planning of means of escape including emergency exits and exit width.
- >Optimise location of stair cores.
- >Provide specification of active and passive fire safety systems including detection & alarm, suppression and structural fire protection.



>IKEA, Ballymun, Dublin



>Dunnes Stores (Ireland & UK)

Egress modelling of multiple scenarios

- >Allows day-to-day and egress analysis to be adequately designed.

Smoke modelling

- >Assessment of both natural and mechanical strategies provided.

Compliance with relevant code & guidance

Where fire engineering is not required a code compliant solution is adopted. The detail needed can be extensive. Our fire strategy conveys all key requirements and specifications.

Fire Strategy Drawings, Fire Legislation Applications and Construction Stage Services

Projects >

Brown Thomas Dublin: MSA provided full fire engineered design, with detailed smoke modelling to allow open voids within the department store.

IKEA, Ballymun, Dublin: Extended travel distances and increased compartmentation sizes were analysed and shown to be compliant with the functional requirements of the Building Regulations.

Other Projects Marks & Spencer Dublin and Cork, Argos Retail Outlets (Nationwide), Boots Shops Dublin, Mothercare (Ireland), Halfords (Ireland), Woodies (Ireland), Champions Sports (Ireland), Ecco Shoes (Dublin), River Island (Ireland), TK Maxx (Ireland), Habitat (Dublin), Next (UK & Ireland), Smiths Toys (UK & Ireland), Tommy Hilfiger (Ireland), H&M (Ireland), Heaton's (N. Ireland), Shaws (Ireland), Coast (Ireland)

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