

SLOTTED UPBRIGHT® INTEGRATED EDGELIT SEG RETAIL SYSTEM

Product: Slotted UpBright® | Manufacturer: Big Instore | Document Version: 1.0

Slotted UpBright®

Technical Data Sheet: Structural Load Capacity

System Overview

The Slotted UpBright® system features an extruded aluminium frame designed for an easy install. The frame includes a slotted element that allows a series of accessories and shelves to be mounted securely at various positions.

Testing Methodology

Independent Finite Element Analysis (FEA) simulations were conducted to establish the weight-bearing capacity of the slotted area on the aluminium uprights. Tests simulated a shelf installation with uniformly distributed loads applied at 100mm, 200mm, 300mm, 400mm, and 500mm horizontal offsets from the front face of the slotted extrusion.

Important Safety Notice

The recorded capacities represent the maximum mass equivalent before the 6063-T5 aluminium's yield strength (145MPa) is exceeded and permanent deformation occurs. **The weights listed below are absolute maximum limits before failure.** To ensure a safe operating margin in a live retail environment, we strongly suggest customers keep actual display weights comfortably below these maximum limits.

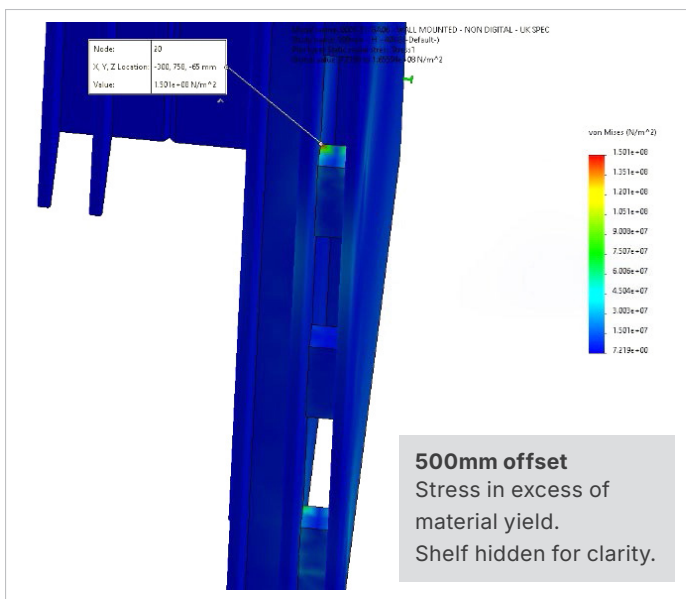
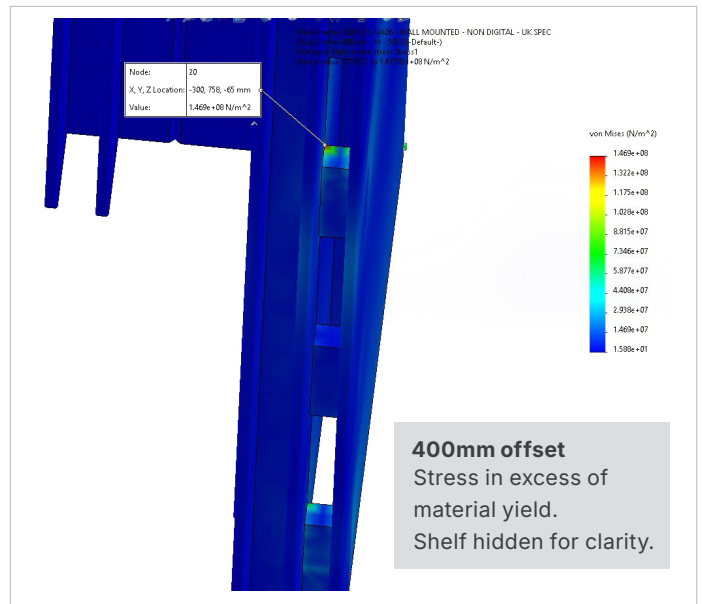
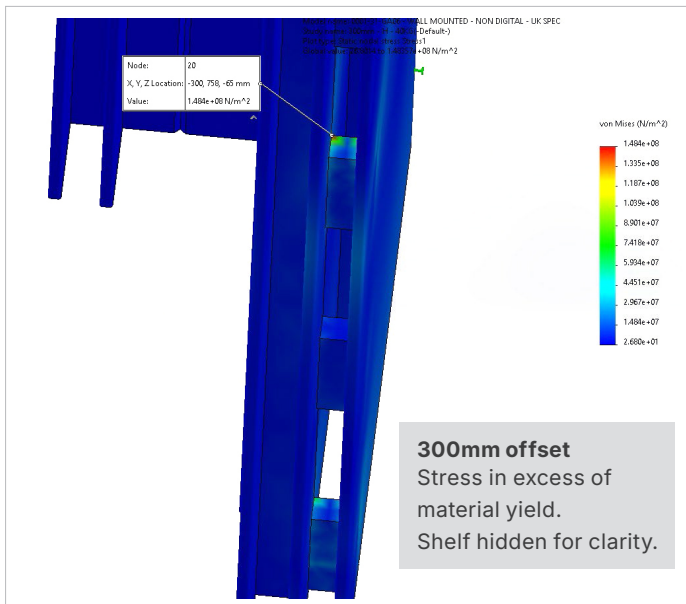
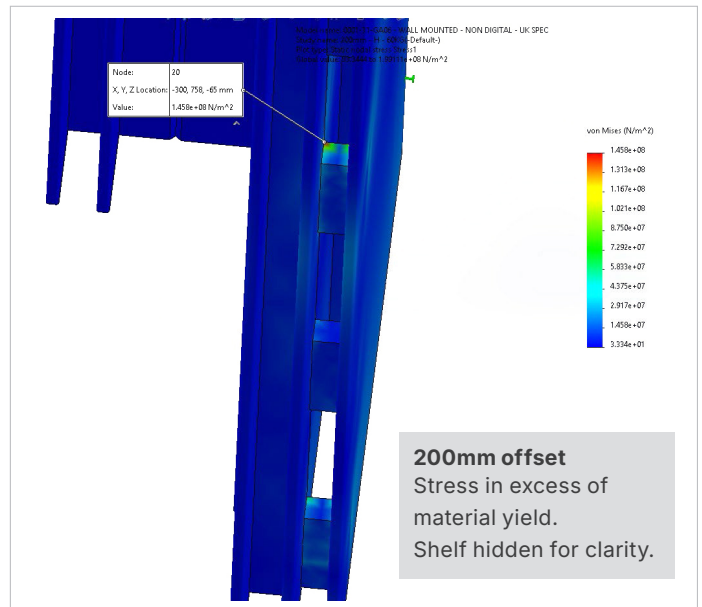
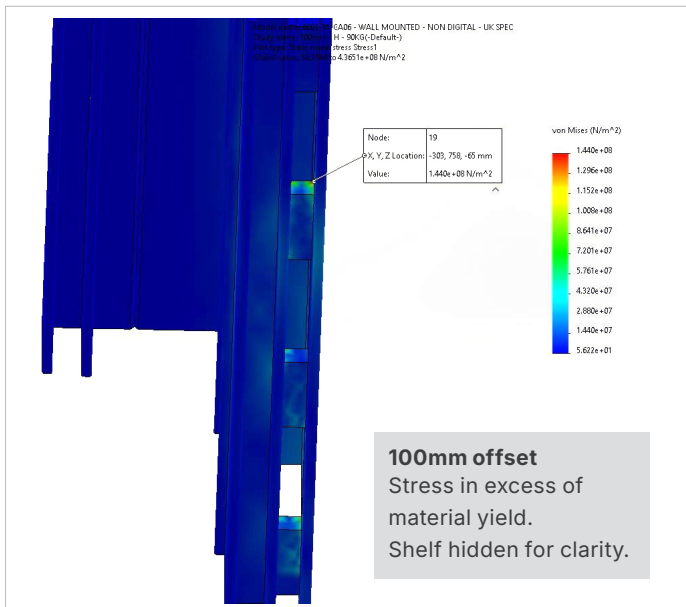
Maximum Load Capacities (32mm Slot Pitch)

Load Application Offset (from upright)	Maximum Load @ Yield (N)	Equivalent Mass Capacity (kg)
100 mm	1335 N	136 kg
200 mm	667 N	68 kg
300 mm	432 N	44 kg
400 mm	314 N	32 kg
500 mm	255 N	26 kg

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We didn't just raise the bar. We lit it up.