



Case Study Lyme Dale Project for New Look



New Look is expanding rapidly; since their first store in Taunton in 1969 New Look has grown to be a worldwide fashion retailer with stores in the UK and Republic of Ireland, Europe, the Middle East, Singapore, Russia and Poland. In 2009 alone, over 355 million customers visited New Look either online or in one of their stores.

In line with New Look's growth, continual improvements to logistic operations are required, which brings with it the requirement to continually expand their distribution warehouses.

One such expansion was required at their Newcastle-under-Lyme distribution warehouse. In order to make better use of existing floor space, New Look invested in a 3-tier mezzanine floor which equated to a total area of 12,596m². Davicon Mezzanine Floors provided the new mezzanine floor, which was installed in a twelve week programme, which including coordination with all the other mechanical service providers.

Davicon has a proven track record of delivering jobs of this size to schedule, and this, together with Davicon's quality brand and excelling customer service was the reason New Look chose a Davicon mezzanine floor.

Phase 1

www.davicon.com

Two tier mezzanine with a third tier of steelwork only; between grid lines 14-19

Level 1

Platform Size	: 64.35m x 38.4m (2,471m ²)			
Column Grid	: 4.8m x 4.1m			
Height	: +3.25m to top of floor			
Construction Depth	: 292 mm			
Decking	38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)			
Loads	: Imposed load - 4.80 kN/m ² U.D.L Dead load (mezzanine self-weight) - 0.35 kN/m ² U.D.L Service load -(sprinklers and lighting only) 0.25 kN/m ² U.D.L			
Level 2				
Platform Size	: 93.3m x 38.4m (3,583m ²)			
Column Grid	: 4.8m x 4.1m			
Height	: +6.5m to top of floor			
Construction Depth	: 292 mm			
Decking	: 38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)			
Loads	: Imposed load - Dead load (mezzanine self-weight) - Service load -	4.80 kN/m ² U.D.L 0.35 kN/m ² U.D.L (sprinklers and lighting only)		
Level 3				
Platform Size	: 93.3m x 38.4m (3,583m ²)			
Column Grid	: 4.8m x 4.1m			
Height	: +9.75m to top of floor			

Construction Depth	: 203 mm		
Decking	38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)		
Loads	: Imposed load - Dead load (mezzanine self weight) - Service load -(sprinklers and lighting only)	3.50 kN/m² U.D.L 0.35 kN/m² U.D.L 0.25 kN/m² U.D.L	
Deflection	All steel members have been designed with a maximum deflection of L/250 (under imposed loading only – unfactored) in accordance with the requirements of BS5950 Part 1: 2000. No other limits have been specified or allowed for.		
Base Plates	: 300mm x 300mm x 20mm		
Column Loads	: Estimated maximum axial load 293kN (unfactored) to floor slab		
Hand-railing	: 767 metres total (standard tubular, twin railed)		

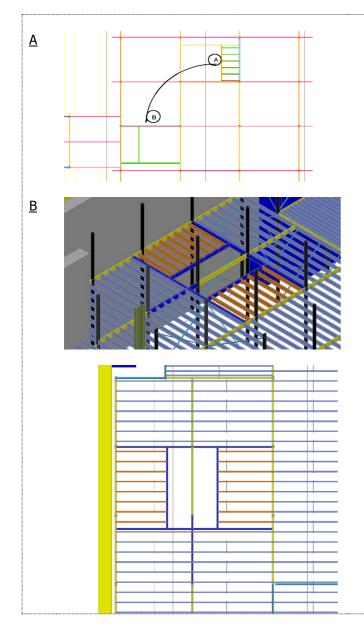
Phase 2

Two tier mezzanine with a third tier of steelwork only; between grid lines **19-22**

Level 1			
Platform Size	64.35m x 24.0m (1,544.4m ²)		
Column Grid	4.8m x 4.1m		
Height	+3.25m to top of floor		
Construction Depth	292 mm		
Decking	38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)		
Loads	posed load - ad load (mezzanine self rvice load - prinklers and lighting on	0.25 kN/m ² U.D.L	
Level 2 Platform Size	.3m x 24.0m (2,240m ²)		
Column Grid	4.8m x 4.1m		
Height	+6.5m to top of floor		
Construction Depth	2 mm		
Decking	38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)		
Loads	posed load - ead load (mezzanine self rvice load - prinklers and lighting on	0.25 kN/m ² U.D.L	
Level 3 Platform Size	$3m \times 24.0m (2.240m^2)$		
Column Grid	93.3m x 24.0m (2,240m ²)		
	4.8m x 4.1m		
Height	+9.75m to top of floor		
Construction Depth	203 mm		
Decking	38mm Particle Board (TG2, Grade C, P6 Treadsafe with white melamine balancer)		
Loads	posed load - ad load (mezzanine self rvice load - prinklers and lighting on	0.25 kN/m ² U.D.L	
Deflection	All steel members have been designed with a maximum deflection of L/250 (under imposed loading only – unfactored) in accordance with the requirements of BS5950 Part 1: 2000. No other limits have been specified or allowed for.		
Base Plates	300mm x 300mm x 20mm		
Column Loads	Estimated maximum axial load 293kN (unfactored) to floor slab		

Phase 3

For modification work to the existing platform installation between gridlines 13 - 19.



a) To move the existing stair from position A and fill in the opening with the required secondary steel and decking (as described above).

b) To create an opening at position B and fit the stair from A, and handrail to the void.

Note: we have excluded the supply of new handrail and have included for the installation of free issue handrail.

a) Level 2 - To create an opening in the existing by cutting and removing the decking, secondary steel and 1 primary beam, fitting new primary steelwork (blue) then cutting the existing secondary steelwork as required (orange) and re-fitting all secondary steelwork. Note - we have allowed for 6 bays plus any boards necessary in adjoining bays.

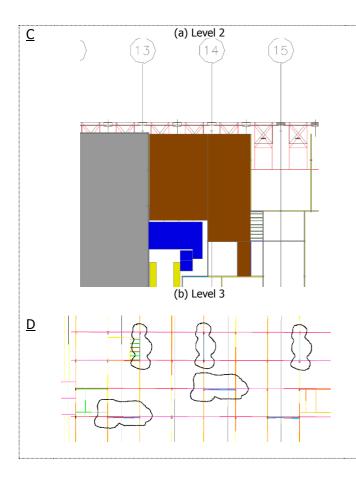
To supply and fit new decking and fit free issue handrail with kicker to the void.

We have included for a Garment Hanging Stair between levels 2 to 1. Handrail to the void edge is included.

Note: We have left the central primary steelwork as it appears to be on the centre line between the 2 garment hanging tracks. If this requires moving a further design solution is required at additional cost.

We have excluded the supply of new handrail and have included for the installation of free issue handrail.





b) Level 3 - (brown) to supply and install required primary and secondary steelwork to the existing level 3 framing. To supply and install approximately 134m² decking and approximately 34m of free issue handrail & kicker to the edges. We have included for a Garment Hanging Stair between levels 3 to2. Handrail to the void edge is included.

Note: We have assumed that there is some flexibility in the final layout, as such we have not allowed for any modification to the existing primary frame this will need to be checked for any clashes with final design and if any occur then additional cost will be incurred.

We have excluded the supply of new handrail and have included for the installation of free issue handrail.

To remove 5 'X' brace between levels 2 and 3 and re-position in adjacent bays so as to maintain the floor stability.

