



Fire Evacuation Key

- Existing wall to achieve min 30 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor)
- Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor)
- New wall to achieve min 30min fire rating
- New wall to achieve min 60min fire rating
- Protected areas: walls, floors, ceilings and doors to achieve 30minute fire resistant construction.
- Protected areas: walls, floors, ceilings and doors to achieve 60 minute fire resistant construction.
- 30 Occupancy level within area
- Fire Escape Route
- ↔ Minimum Clear Widths
- 0 Exit No.
- Shared Escape Route

Escape Route Widths:

In line with Sections 3.21, 3.22 of Approved Document Part B, Volume 2 - buildings other than dwelling houses - the adjacent calculations provide justification for the clear opening widths for escape from each floor level/room in accordance with Tables 4 & Appendix C.

Ground Floor
 Exit A Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit B Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit C Clear Opening Width - 1050mm (allows 220 persons to escape)

Total Aggregate Width for Floor (Less Largest Opening Width of 1050mm from Exit C) = 2900mm
 Ground Floor Total Estimated Occupancy Capacity = 143 Persons

Exit A & B provides a min. width of 1050mm each and would allow a max. No. of 440 persons to escape, which is larger than the total estimated occupancy capacity of 143 Persons and is therefore thought to meet with the Approved Document Part B.

Mezzanine
 Exit 1 Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit 2 Clear Opening Width - 1050mm (allows 220 persons to escape)

Total Aggregate Width for Floor (Less Largest Opening Width of 1050mm from Exit C) = 1950mm
 Mezzanine Floor Total Estimated Occupancy Capacity = 143 Persons

Exit 2 provides a min. width of 1050mm and would allow a max. No. of 227 persons to escape, which is larger than the total estimated occupancy capacity of 143 Persons and is therefore thought to meet with the Approved Document Part B.

Final Exit

Exit A Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit B Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit C Clear Opening Width - 1050mm (allows 220 persons to escape)
 Exit D Clear Opening Width - 1050mm (allows 220 persons to escape)

Exit A caters for the ground floor only and allows the ground floor occupancy to escape and is thought to meet with the Approved Document Part B.
 Exit B caters for the ground floor and mezzanine floor. The floor combined occupancy is a total of approximately 263 persons. Exit B allows a max 220 persons to escape, however the ground floor has 1 additional escape which would be expected to be used in this scenario, assuming that the 100 occupants of ground floor level escape using another exit (assuming one is blocked). Exit B would be expected to accommodate 143 people from mezzanine level and 60 people from the ground floor - total 203 people and therefore is thought to meet with Approved Document Part B.
 Exit C caters for the ground floor and allows the ground floor occupancy to escape and is thought to meet with the Approved Document Part B.
 Exit D caters only to the Mezzanine floor and allows the entire mezzanine floor occupancy to escape and is therefore thought to meet with the Approved document part B.

Fire Alarm
 Fire Alarm designed and installed to BS 5839: Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's drawings / specifications.

Emergency Lighting
 Emergency escape lighting designed and installed in accordance with BS 5266: Part 1. Please refer to M&E Engineer's drawings for final layout and specification. Escape signage and emergency lighting is CP under the M&E specification. Details of contractors proposals to be provided to Building Control Approved Inspector and Fire Officer within the Contractors Proposals Package, Clause 14.

Mezzanine CDP: New mezzanine structure including steel, edge and column connections to be 60min FR using a bolted solution to suit Part Part B and any Fire Compartmentation. Ceiling to be clear and fit ready for service decoration. Service penetrations to be coordinated and sealed to the support. Contractor to submit proposals for design to be reviewed by building control and the service. All M&E to be coordinated in conjunction with PG to prevent clashes with high level kit and signage.

Rev	Date	Description	DRAWING TITLE	Drawn/ Checked
<p>PROJECT TITLE Yeovil Unit 7A Houndstone RP, Yeovil, BA22 8YQ</p>			<p>DRAWING TITLE Fire Evacuation Plan Ground & Mezzanine Floor Plans</p>	
CS/PG	19.03.21	1:100 @ A1	0798	003 - FEP
<p>CONSTRUCTION</p>				C00
<p>PUREGYM</p>			<p>Pure Gym Ltd The Merrion Centre Leeds LS2 8LY</p> <p>architect@puregym.com t: 0113 285 8787 w: www.puregym.com</p>	