



Proposed Ground Floor Plan

Proposed Mezzanine Floor Plan

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)		Fire Escape Route
	Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor)		Minimum Clear Widths
	New wall to achieve min of 30min fire rating		Exit No.
	New wall to achieve min of 60min fire rating		Shared Escape Route
	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.		

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

Ground Floor
Final Exit 1 - min Clear Opening Width = 1410mm (allows 291 persons to escape)(largest opening to be discounted)
Final Exit 3 - min Clear Opening Width = 1050mm (allows 210 persons to escape)
Final Exit 4 - min Clear Opening Width = 1050mm (allows 210 persons to escape)
Total Aggregate Width for Floor (Less Largest Opening Width of 1410mm from FINAL EXIT 1) = 2200mm

Mezzanine Floor
Final Exit 5 Fed by Storey Exit A. Clear Opening Width = 1050mm (Escape occupancy limited by FINAL EXIT 5 clear opening width = 1030mm, allows 276 persons to escape)
Final Exit 3 Fed by Storey Exit B. Clear Opening Width = 1050mm (allows 277 persons to escape)(largest opening to be discounted)
Total Aggregate Width for Floor (Less Largest Opening Width of 1030mm from FINAL EXIT 5) = 1050mm

Total
Ground Floor = 480 persons to escape
Mezzanine Floor = 276 persons to escape
Total = 756 persons to escape

Based on MA of 944sqm, the Puregym peak occupancy target = 756 Persons
Calculated using Puregym Fire Safety Occupancy Levels Forecast Tool.

The designed occupancy of the unit as calculated would allow a max. No. of 756 person to escape, which is larger than the total estimated occupancy capacity of 756 person and is therefore thought to meet with the Approved Document Part B. To allow free movement between the floors the occupancy has not been split 50/50% but rather allows for occupancy based on gym stations and functions assuming that a high percentage of the total occupancy could be on a single floor at one time.

Fire Alarm
Fire Alarm designed and installed to BS 5838. Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's drawings / specifications.

Escape 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 CDF under the M&E specification. Details of contractors proposals to be provided to Building Control Approved Inspector and Fire Officer within the Contractors Progress Package, Clause 14.

Rev	Date	Description	Drawn	Checked
01	04.04.22			

CONSTRUCTION

Unit H, Brotherhood Retail Park Peterborough, PE4 6ZR	Fire Evacuation Plan Ground & Mezzanine Floor
DATE: 04.04.22	SCALE: 1:100@A1
JOB No: 2012	DRAWING No: 003-FEP
Rev: 00	000

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