



NOTE:

- Proposals must comply with all acoustic, fire & building regulation requirements
- No dimensions are to be scaled from this drawing. The contractor is responsible for checking all dimensions on site

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.		Fire Door Rating
	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
 Exit 1 Clear Opening Width = 1338mm (constrained by Speedegates exit c, 1050mm) (allows 222 persons to escape)
 Exit 2 Clear Opening Width = 1392mm (largest opening to be discounted) (allows 288 persons to escape)
 Total Aggregate Width for Floor (Less Largest Opening Width of 1338mm from Exit 1) = 1056mm
 Total Ground Floor Estimated Occupancy Capacity = 222 Persons

Mezzanine Floor
 Exit 4 Clear Opening Width = 1338mm (constrained by Speedegates exit c, 1050mm) (allows 222 persons to escape)
 Exit 5 Clear Opening Width = 1055mm (allows 221 persons to escape) (largest opening discounted)
 Total Aggregate Width for Floor (Less Largest Opening Width of 1055mm from Exit 2) = 1055mm
 Total Mezzanine Floor Estimated Occupancy Capacity = 221 Persons

Mezzanine Floor
 Exit 5 allows for the Ground Floor Exit 1 and Mezzanine Floor Exit 4 and allows the combined occupants of both floors to escape. Due to the fixed nature of the speedegates this is the narrowest point and thereby constrains the occupancy through to a max of 222 persons based on the 1055mm large opening (the single lane is 385mm and therefore unable to be used for occupancy purposes - even though during an alarm activation it would be open). Occupancy is therefore limited at each exit to 111 persons to each floor. For this reason the Occupancy should be limited to 222 persons

Based on an NIA of 11452sqft the Puregym Average occupancy target is 218 persons
 Calculated using Puregym Fire Safety Occupancy Forecast Tool

The designed occupancy of the unit as calculated would allow a max. No. of 222 persons to escape, which is larger than the total estimated occupancy capacity of 218 persons 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 5839. 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 Proposals Package, Clause 1.4

Fire Stopping
 All perimeter edges of mezzanine to be appropriately fire stopped to create compartment floor and protect mezzanine structure. All services/drainage penetrations passing through fire rated compartment floor to be fire colored/sealed.

Rev	Date	Description	DRAWING TITLE	Drawn/ Checked
			Shrewsbury, Meole Brace RP MBF Unit 5, Meole Brace RP, Shrewsbury, SY3 9NB	Fire Evacuation Plan Ground and Mezzanine Floor Plans
TT/CS	22.05.23	1:100 @ A1	2284	003-FEP
CONSTRUCTION				Rev
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