

Fire Evacuation Key

eFR30	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
eFR60	Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor	1050 min	Minimum Clear Widths
FR30	New wall to achieve min of 30min fire rating	0	Exit No.
FR60	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.	FDXX	Fire Door Rating
	Protected areas: walls, floors, ceilings and doors to achieve 60 minute fire resistant construction.		

____ ------Escape Route Widths Sprinklers System design and installed in compliance with BS EN 12845:2015 & LPC Technical Bulletins In line with Section 2.9.8 of the Technical Handbook - Non Domestic, the aggregate unobstructed width in mm of all escape routes from a room, Fire Alarm Fire Alarm designed and installed to BS 5839. Smoke & heat detection / emergency lighting by specialist. Please refer to M&E engineer's or storey, should be at least 5.3 x the occupancy capacity of the room or storey. Ground Floor drawings / specifications. Aggregate Clear Opening Width of Escape Routes Calculation: Final Fire Exit D1 clear opening width = 1847mm (allows 379 persons to escape) but is limited by D2 clear opening width = 1060mm (allows 222 Escape Lighting Emergency escape lighted designed and installed in accordance with BS 5266: Part 1. Please refer to M&E Engineer's drawings for final layout and specification. ____ persons to escape). Final Fire Exit D8 clear opening width = 1322mm (allows 274 persons to escape). Final Fire Exit D9 clear opening width = 867mm (allows 225 persons to escape) but is limited by D7 clear opening width = 850mm (allows 225 ____ Smoke Extract Smoke Extract System to be designed and installed in accordance with BS 7346: Part 8. Please refer to M&E Engineer's drawings for final layout persons to escape). Final Fire Exit D18 clear opening width = 1098mm (allows 229 persons to escape). and specification. Final Fire Exit D22 clear opening width = 850mm (allows 225 persons to escape). Fire Stopping All perimeter edges of mezzanine to be appropriately fire stopped to create compartment floor and protect mezzanine structure. All Total Aggregate Width for Floor (Less Largest Opening Width of 1322mm from Exit D8) = 3858mm Ground Floor Total Estimated Occupancy Capacity = 207 Persons Ground Floor Maximum Occupancy Capacity = Total Aggregate Width for Floor (Less Largest Opening Width of 1322mm from Exit D8) = 3858mm / 5.3 = 727 people services/drainage penetrations passing through fire rated compartment floor to be fire collared/sealed. Escape Signage and emergency lighting is CDP under the M&E specification. Details of contractors proposals to be provided to Building Contro Approved Inspector and Fire Officer within the Contractors Proposals Package, Clause 1.4 Combined Occupancy Provision Ground floor maximum occupancy: 727 NO. 727 NO. TOTAL occupancy provision: Based on PG existing occupancy data of 340+ Pure Gyms of comparable sites, Pure Gym Airdrie is designed for a peak occupancy of 207 people. This is smaller than the max. no of 727 persons (see calculation above). Therefore thought to meet with the Section 2.9 of Technical Handbook – Non Domestic.

It is also important to note that 207 people is the occupancy figure, Pure Gym Airdrie's average occupancy during everyday operation will likely be approx. 50% lower than peak hour occupancy.

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

-All FR walls to junction existing masonry cavity wall consisting of 75mm blockwork (internal) and brickwork

(external),

-Service void behind WC's/Showers.

Area used for maintenance ONLY.

—Existing structural opening to

to be Irded. ng.		
<u>ا</u> م		Escape Distance and Angle of Divergence
	Please refer to MD-011	<u>Position A</u> Total escape to nearest Final Exit <mark>D18 = 14.9m</mark> The total escape distance is less than 15m and thus complies.
		<u>Position B</u> Total escape to nearest Final Exit <mark>D8 = 15.0m</mark> The total escape distance is less than 15m and thus complies.
		<u>Position C</u> Total escape distance to nearest Final Exit D1 = 20.5m Distance before divergence is 0.0m A.O.D to be > (2.5 X 0.0)+45 = 45° Drawn A.O.D = 74° thus complies.
		<u>Position D</u> Total escape distance to nearest Final Exit D9 = 9.0m Distance before divergence is 1.9 m A.O.D to be > (2.5 X 1.9)+45 = 49.75° Drawn A.O.D = 61° thus complies.
		<u>Position E</u> Total escape distance to nearest Final Exit D9 = 11.8m Distance before divergence is 0.0m A.O.D to be > (2.5 X 0.0)+45 = 45° Drawn A.O.D = 103° thus complies.
		<u>Position F</u> Total escape distance to nearest Final Exit D22 = 26.5m Distance before divergence is 11.5m A.O.D to be > (2.5 X 11.5)+45 = 74° Drawn A.O.D = 164° thus complies.
		Drawn A.U.D = 164° thus complies.

-Speedo	jates supplied by
	's has emergency mode:
open m	anually and
automo	itically (with power
backup), incorporating Equality
Act Con	npliant access code.
Interfac	ed to the fire alarm
system	to override open in case
of alarr	n.
Speedo	jate has manual
breako	ut function

-New shopfront and Horton doors to be installed by PureGym. Automated Bi-Folding door has manual breakout function. D1 – Final Exit discharges

into car park. Internal slab level align with external level.

Rev Date PROJECT TITLE Airdrie	Description		DRAWING TITLE Fire Evacuation F	Plan	Drawn/ Checke
DRAWN / CHECKED SK/KL DRAWING PURPOSE	Ace, Weavers Road, 04.12.23 RUCTION	Airdrie ML6 0AN SCALE 1:100 @ A	Ground Floor Pla JOB No 1 2252	IN DRAWING NO 003-FEP	COC
) PURE	GYM		Pure Gym Ltd Town Centre Hous The Merrion Centr Leeds LS2 8LY e: architecture@p t: 0113 285 8787 w: www.puregym.	re uregym.com