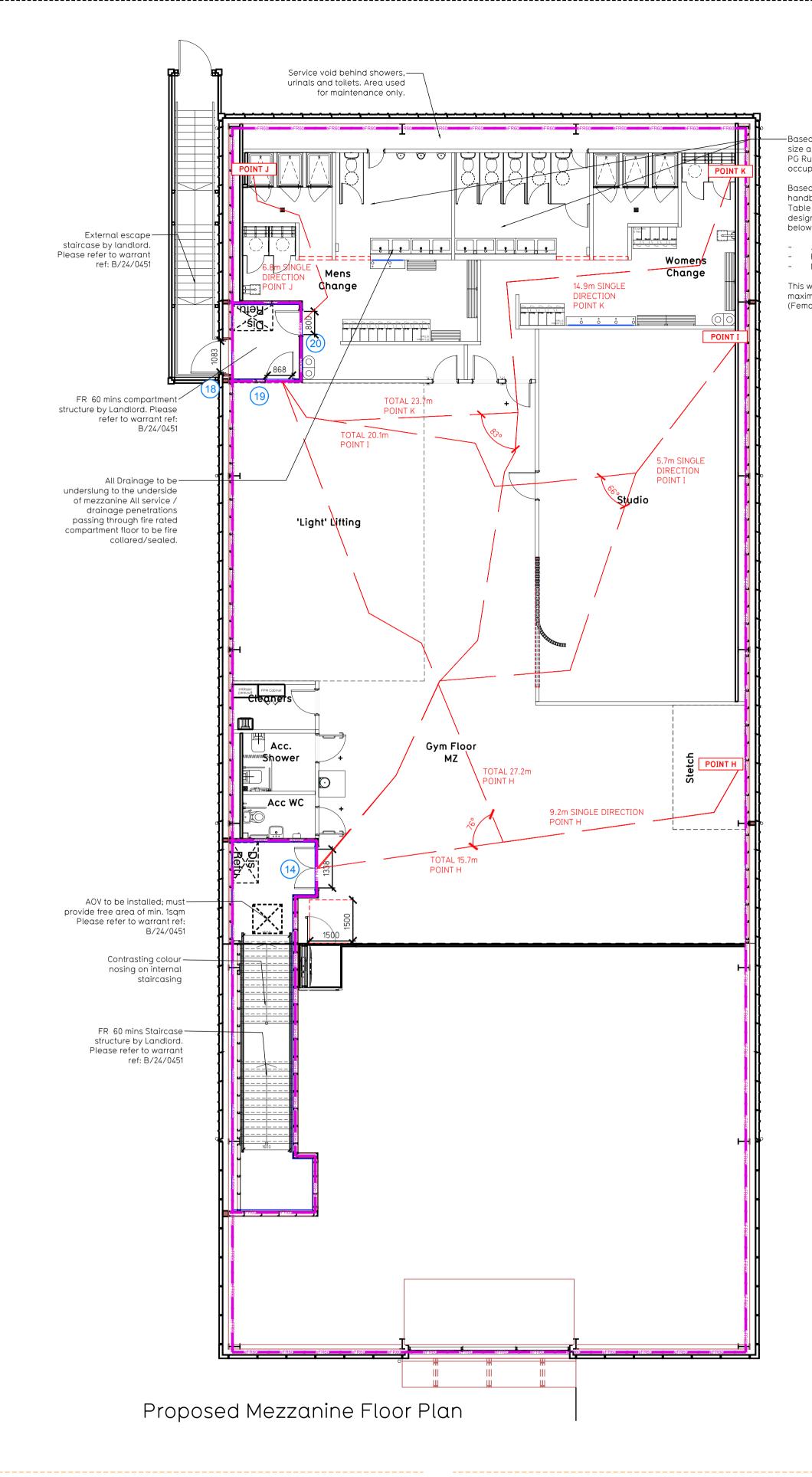


Fire Evacuation Key

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
bFR60	Existing wall to achieve min 60 minute fire rating (suitability of wall to be confirmed on site by Pure Gym Main Contractor	1 050 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.	FD30 / FD60	Fire Door Rating - 30min. / 60min.
	Protected areas: walls, floors, ceilings and doors to achieve 60 minute fire resistant construction.	FDKS / AFDKC / FDKL	Fire Door Signage - Fire Door Keep Shut / Automatic Fire Door Keep Clear / Fire Door Keep Locked
	Existing Protected areas: walls, floors, ceilings and doors 60 minute fire resistant construction provided by Landlord		



Escape Route Widths

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, or storey, should be at least 5.3 x the occupancy capacity of the room or storey

<u>Ground Floor</u>

Aggregate Clear Opening Width of Escape Routes Calculation: Final Fire Exit No. 1 is restricted by door No.2 clear opening width = 1060mm (allows 222 persons to escape)

Final Fire Exit No. 9 clear opening width = 1061mm (allows 222 persons to escape) Final Fire Exit No. 11 clear opening width = 1050mm (allows 220 persons to escape)

Final Fire Exit No. 12 clear opening width = 1083mm (allows 226 persons to escape, largest opening to be discounted)

Total Aggregate Width for Floor (Less Largest Opening Width of 1083mm from Exit No. 12) = 3171mm

Total Estimated Occupancy Capacity = 198 Persons Ground Floor Maximum Occupancy Capacity = Total Aggregate Width for Floor (Less Largest Opening Width of 1083mm from Exit No.12) / 5.3 3171mm / 5.3 = 598 people

Mezzanine Floor

Aggregate Clear Opening Width of Escape Routes Calculation: Final Fire Exit No. 7 clear opening width = 1083mm (allows 226 persons to escape)

Final Fire Exit No. 18 clear opening width = 1083mm (allows 226persons to escape, largest opening to be discounted) Total Aggregate Width for Floor (Less Largest Opening Width of 1083mm from Exit No. 17) = 1083mm

Floor Total Estimated Occupancy Capacity = 198 Persons Mezzanine Floor Maximum Occupancy Capacity = Total Aggregate Width for Floor (Less Largest Opening Width of 1083mm from 1083mm / 5.3 = 204 people

Combined Occupancy Provision Ground floor maximum occupancy: Mezzanine floor maximum occupancy: Total occupancy provision: Based on PG existing occupancy data of comparable sites, Pure Gym designed maximum occupancy of a Pure Gym at this size 198 people, which sits in line with the proposed sanitary ware provision (section 3.12.5) and is smaller than the max. no of 802 pr calculation above). Therefore thought to meet with the Section 2.9 of Technical Handbook – Non Domestic.

598 NO

204 NO. 802 NO.

The designed maximum occupancy of 198 people derives from the vast amount of data collected via 340+ Pure Gyms of compo collection is conducted through access control ironmongery at turnstiles and can be viewed on Pure Gym app and website.

Based on Pure Gym clubs of a similar size and location, it is anticipated that PG Rutherglen maximum designed occupancy will be 198 people.

Based on Building standards technical handbook 2022: non-domestic: 3.12.5 Table 3.8, Rutherglen Pure Gym is designed to have the sanitary provision

> A 49%:51%: Female and male mix Female: 5 WC = 98 person Male: 1 WC + 3 Urinals = 100 persons

This would result to a total designed maximum occupancy of 198 person (Female 98 + Male 100)

Escape Distance and Angle of Divergence

<u>Position A</u> Total escape to nearest Final Exit No. 1 **= 12.5** m The total escape distance is less than 15m and thus complies.

<u>Position B</u> Total escape to nearest Final Exit No. 1 **= 13.1** m The total escape distance is less than 15m and thus complies.

<u>Position C</u> Total escape distance to nearest Final Exit No. 9 = **17.9** m Distance before divergence is 5.5m A.O.D to be > (2.5 X **5.5**)+45 = 59° Drawn A.O.D = 61° thus complies

<u>Position D</u> Total escape distance to nearest Final Exit No. 13 = **14.0** m The total escape distance is less than 15m and thus complies.

<u>Position E</u> Total escape distance to nearest Final Exit No. 13 **= 17.0** m Distance before divergence is 5.2mA.O.D to be > (2.5 X 5.2)+45 = 58° Drawn A.O.D = **74°** thus complies

<u>Position F</u> Total escape distance to nearest Final Exit No. 11 **= 16.7** m Distance before divergence is 2.8m A.O.D to be > $(2.5 \times 2.8) + 45 = 52^{\circ}$ Drawn A.O.D = 60° thus complies

<u>Position G</u> Total escape to nearest Final Exit No. 12 = **4.8** m The total escape distance is less than 15m and thus complies.

Position H Total escape distance to nearest Final Exit No. 14 = **15.7** m Distance before divergence is 9.2m A.O.D to be > (2.5×9.2) +45 = 68° Drawn A.O.D = 76° thus complies

Position I Total escape distance to nearest Final Exit No. 19 = **19.5** m Distance before divergence is 5.7m A.O.D to be > (2.5 X **5.7**)+45 = 59.25° Drawn A.O.D = 66° thus complies

Position J Total escape to nearest Final Exit No. 20 = 6.8 m The total escape distance is less than 15m and thus complies.

<u>Position K</u> Total escape distance to nearest Final Exit No. 19 = **24.5** m Distance before divergence is 15.0 m A.O.D to be > $(2.5 \times 15.0)+45 = 82^{\circ}$ Drawn A.O.D = 83° thus complies

om Exit No.12) / 5.3	Rev Date Description			Drawn/ Checked	
	Glasgow Rutherglen Commercial Unit, Cunninghame Road, G73 1PP		Fire Evacuation StrategyPlan Ground and Mezzanine Floor Plan		
	DRAWN / CHECKED KMC/KL	DATE 12.12.24	DRAWING PURPOSE CONSTRUCTION	scale 1:100 @ A1	
size will not exceed 2 persons (see	2223-XX-003-FEP-C00				
nparable size; data			Town		
	PU	REGYM		nitecture@puregym.com w.puregym.com	