

PIPE DIMENSIONS AND WEIGHTS					MAXIMUM SPACING OF FIXINGS FOR CPVC PIPEWORK		
NOMINAL PIPE SIZE (mm)	OUTSIDE DIAMETER (mm)	INSIDE DIAMETER (mm)	WEIGHT PER METER FULL (kg)	WEIGHT PER METER EMPTY (kg)	NOMINAL PIPE SIZE (mm)	HORIZONTAL RUN (m)	VERTICAL RUN (m)
20	26.7	22.2	0.25	0.69	20	1.7	3.0
25	33.4	28.0	0.39	1.10	25	1.8	3.0
32	42.2	35.4	0.62	1.61	32	2.0	3.0
40	48.3	40.6	0.82	2.11	40	2.1	3.0
50	60.3	50.9	1.29	3.31	50	2.4	3.0
65	73.0	61.5	1.86	4.82	65	2.7	3.0
80	88.9	74.9	2.84	8.15	80	3.0	3.0

General Notes

- Sprinkler deflectors must be installed parallel to ceiling or roof.
- Sprinkler heads must be installed using PTFE tape only, and threaded pipe joints must have a water council approved jointing compound. (e.g. Water Hawk or equivalent).
- Sprinkler heads must be a minimum distance of 150mm from pipe supports.
- All pipework must be installed with the following minimum slopes for drainage:
Range pipes - 4mm per 1 metre run - 0.4%.
Distribution pipes - 2mm per 1 metre run - 0.2%.
- All levels shown are to pipe centre lines.
- Sprinkler heads, multiple controls and nozzles MUST NOT be painted.
- Argus Fire Protection Co. Ltd does not accept any responsibility for damage to any part of the installation due to frost. Clients must take adequate precautions to prevent freezing of water charged pipework and valves.
- A clear space of 1.0m must be maintained below the sprinkler deflector at all times for High Hazard systems and 0.5m for Light & Ordinary Hazard.

Standard Tube Specification

Pipework above ground	CPVC
Pipework below ground	n/a
Fittings above ground	CVPC
Fittings below ground	n/a
Pipe Joints, 50mm and less	Glued
Pipe Joints, 65mm and more	n/a

Design Parameters

Location	Ground Floor
Hazard Classification	Category 2
Storage Category	n/a
Area of Operation	2No. Sprinklers Operating Simultaneously
Maximum stack height	n/a
Discharge Density	2.8mm/min
Design Standard	BS9251:2014
System Design	Property Protection
Design Spacing	25m ² (Max.)
Pipework Table	Fully Hydraulically Calculated
Design Flow	70 L/min
Highest Sprinkler	n/a

Schedule

Installation Number	1
Area / Size of	One Zone Per Floor
Installation Type	Wet
Area Description	Residential
Construction	Non Fire Proof
Number of Sprinklers	67
Temperature rating	68°C
Size	15mm / K80 / T.P 1.29 Bar
Model/Type	Reliable RFS42 Residential Flat Conc Horiz S/W
Finish	White (Cover Plate)

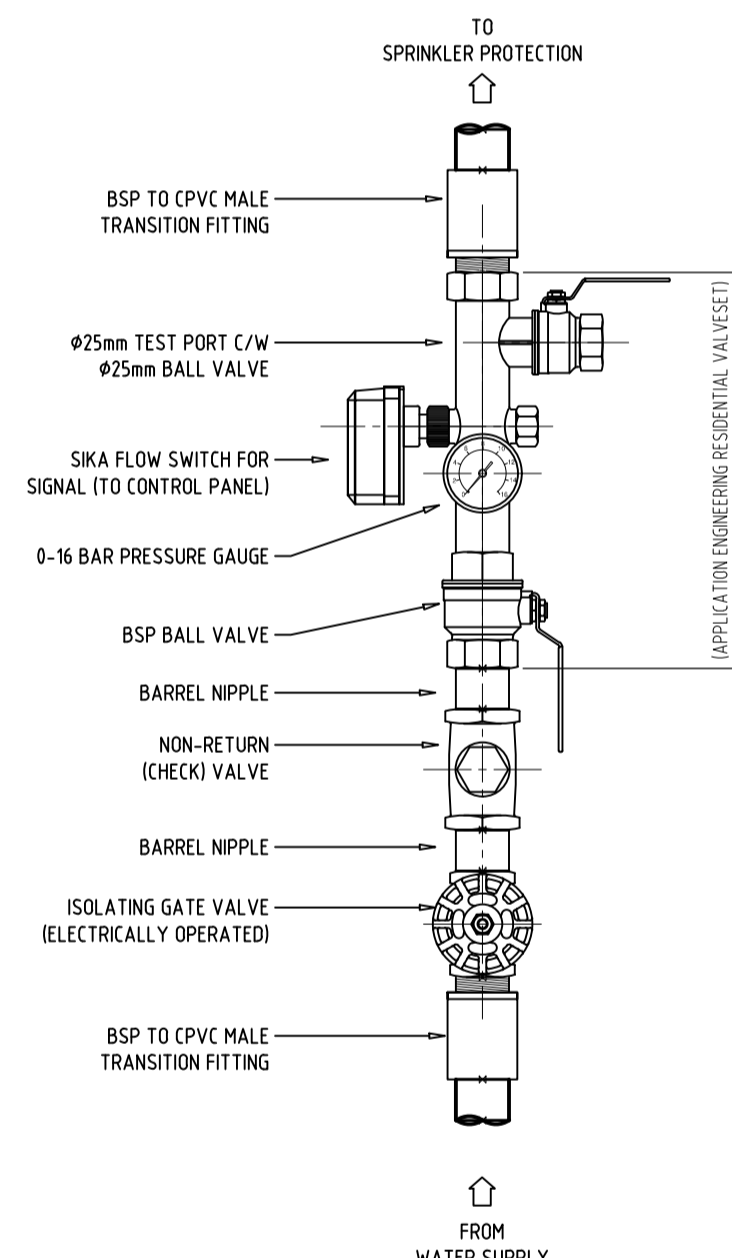
Equipment Schedule

Fire Pump	Information
Sprinkler Tank	T.B.C
Alarm Valves	Residential Riser Valve
Flow Switches	T.B.C
NPSH Available	n/a

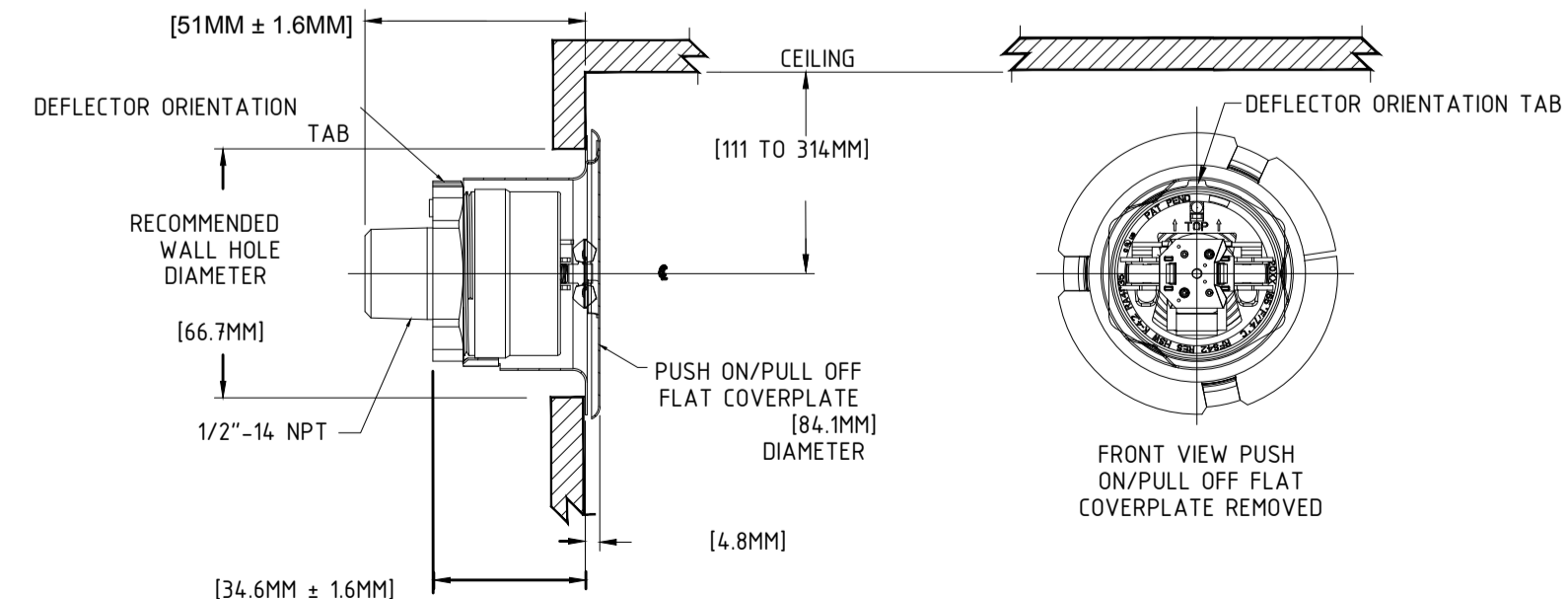
Legend

Residential Sidewall Sprinkler

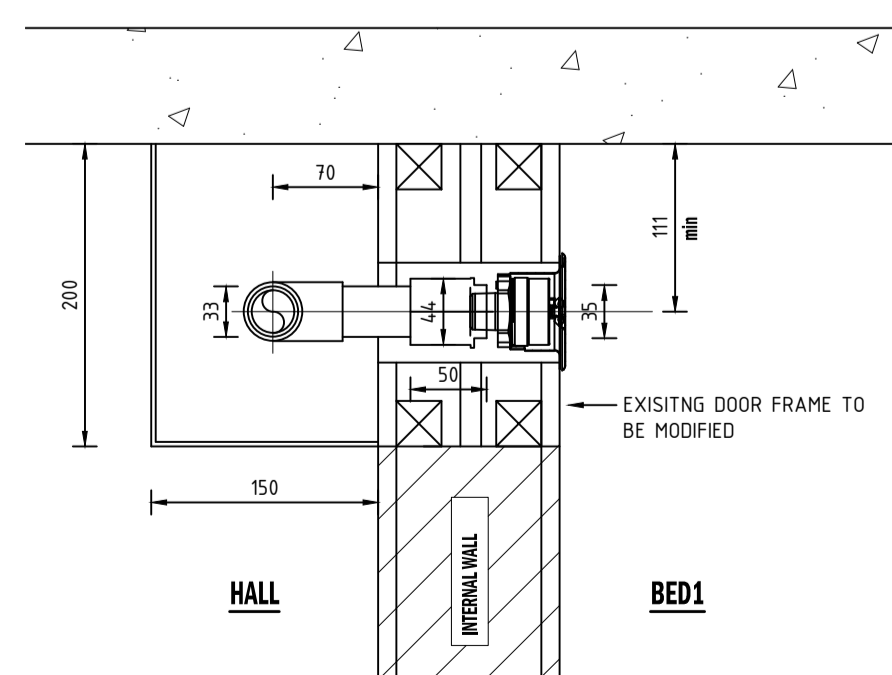
NB. ALL PIPEWORK DIAMETERS TO BE CONFIRMED BY FULL HYDRAULIC CALCULATION.
For Hydraulic Calculations refer to: T.B.C
Full Hydraulic Calculations created using HASS version 7.9m / Canute F.H.C.
For Hydraulic Node details refer to: T.B.C



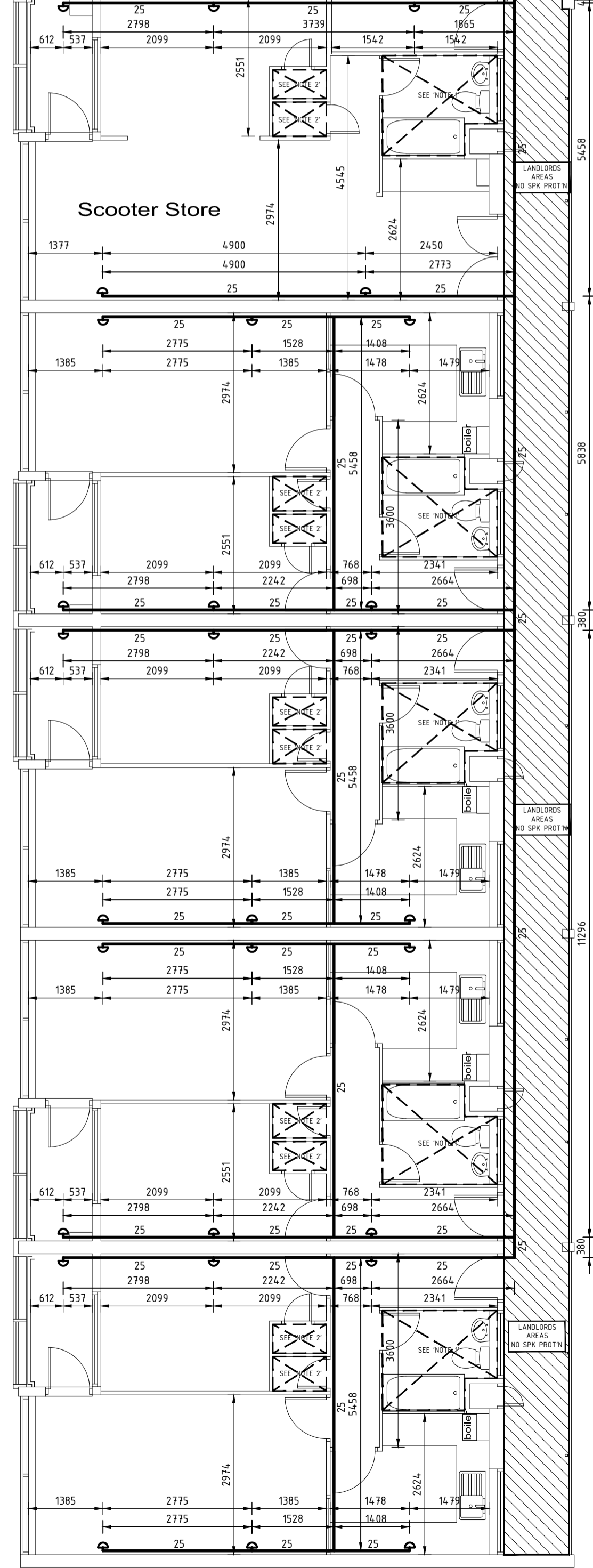
Detail of Residential Zone Valve
Scale 1:5



Detail of Residential Horizontal Sprinkler
Scale 1:2



Detail of Residential Horizontal Sprinkler Located in Coving
Scale 1:5



- NOTE 1:- SPRINKLER PROTECTION TO BATHROOMS WITH A FLOOR AREA OF LESS THAN 5m² MAY BE EXCLUDED WITH CONFIRMATION BY A FIRE STRATEGY OR RISK ASSESSMENT.
- NOTE 2:- SPRINKLER PROTECTION TO CUPBOARDS WITH A FLOOR AREA OF LESS THAN 2m² OR WHERE THE LEAST DIMENSION DOES NOT EXCEED 1m MAY BE EXCLUDED WITH CONFIRMATION BY A FIRE STRATEGY OR RISK ASSESSMENT.
- NOTE 3:- SPRINKLER PROTECTION TO BALCONIES MAY BE EXCLUDED WITH CONFIRMATION BY A FIRE STRATEGY OR RISK ASSESSMENT.

P01	-	Issued for Comment / Approval	TE	JDWH
Rev	Date	Description	Drawn	Chk'd

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Client: Wythenshawe Housing

Project: Birch Tree Court Argus Ref: 3046/PM/ML

Drawing Title: Residential Sprinkler Protection to Ground Floor Birch Tree Court

Date of Issue: 20/11/18 Scale @ A1: 1:50 Drawn: TE Checked: JDWH

Filename: BTC-AFP-A-GF-DR-X-1000 Revision: P01

Suitability: For Review & Comment Suitability: S3

Proj.	Orig.	Zone	Level	File Type	Disc	Number
BTC	AFP	A	GF	DR	X	1000