

PIPE SIZES UNLESS OTHERWISE STATED:
SPRINKLER RISER = Ø40mm CPVC
CORRIDOR DISTRIBUTION = Ø32mm CPVC
PIPE TO INDIVIDUAL FLATS = Ø20mm CPVC

ANY FIRE STOPPING PRODUCTS MUST BE APPROVED
AND COMPATIBLE FOR USE ON CPVC PIPE

APPROVAL CHART	
RESIDENTIAL EXPOSED SIDE-WALL SPRINKLER VK486 K=57.7 (4.0), INSTALLED (112-162mm B.C)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	41.7 l/min@0.52 bar
4.3m x 4.3m	49.3 l/min@0.73 bar
4.9m x 4.9m	60.6 l/min@1.1 bar
4.9m x 5.5m	64.4 l/min@1.25 bar

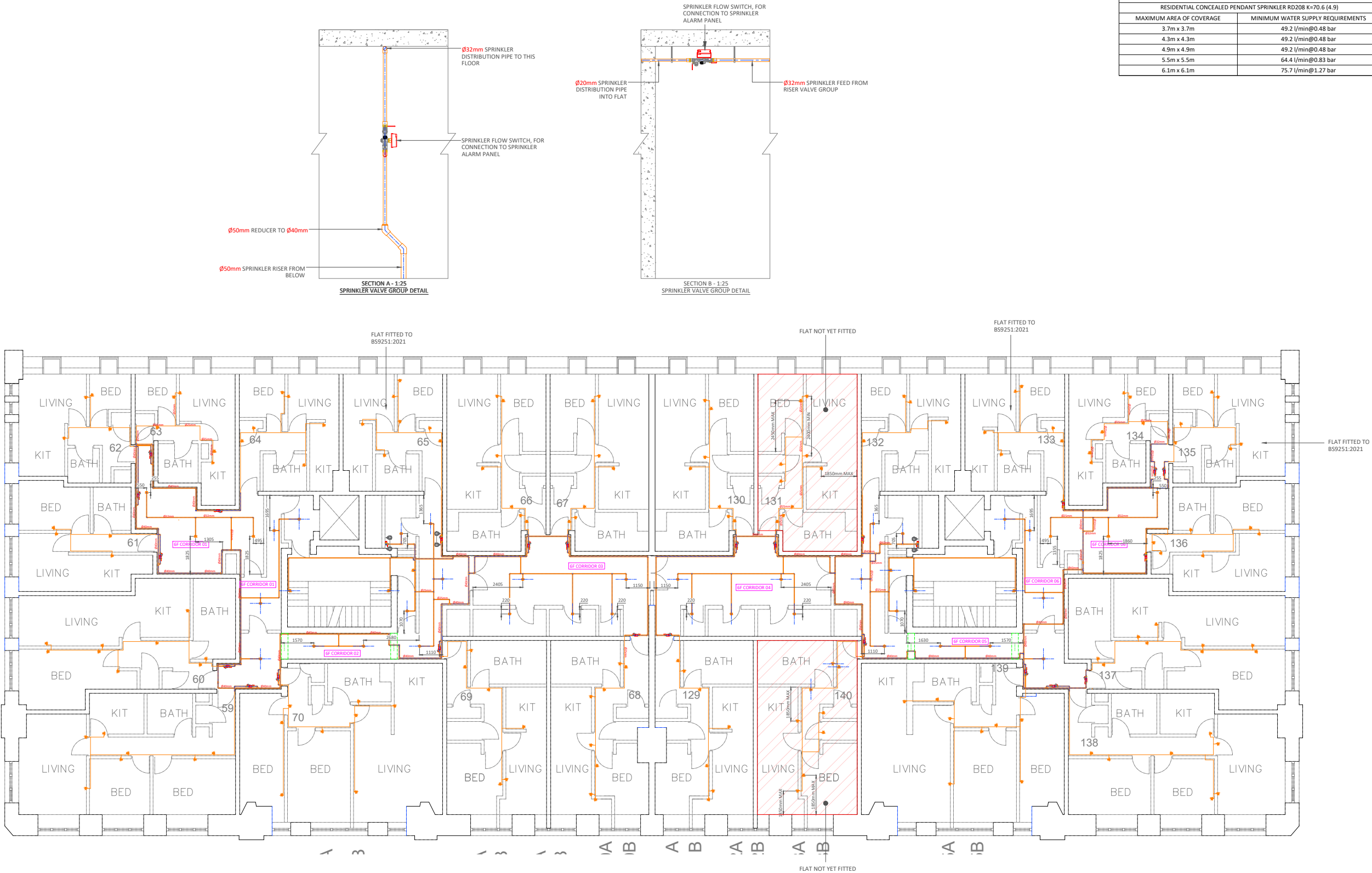
APPROVAL CHART	
RESIDENTIAL CONCEALED PENDANT SPRINKLER RD208 K=70.6 (4.9)	
MAXIMUM AREA OF COVERAGE	MINIMUM WATER SUPPLY REQUIREMENTS
3.7m x 3.7m	49.2 l/min@0.48 bar
4.3m x 4.3m	49.2 l/min@0.48 bar
4.9m x 4.9m	49.2 l/min@0.48 bar
5.5m x 5.5m	64.4 l/min@0.83 bar
6.1m x 6.1m	75.7 l/min@1.27 bar

PROJECT ID: 9380

DESIGN CRITERIA:	
SYSTEM DESIGN RULES	BS9251:2021
CATEGORY (BS9251:2014 TABLE 1)	2
DENSITY mm/min (l/min/M2)	2.80mm
SPRINKLER PIPEWORK	CPVC
SOURCE & DURATION OF SUPPLY	T.B.C
MINIMUM SPRINKLER PRESSURE	0.50 BAR
MINIMUM SPRINKLER SPACING	2.4M
DEPARTURES FROM RULES	YES OR NO (IF YES LIST)
CLAUSES USED	-
COMPENSATORY FEATURES	-
ALARM	-

DRAWING LEGENDS & NOTES	
	SIDEWALL SPRINKLER HEAD (REFER TO APPROVAL CHART)
	SPRINKLER HEAD (REFER TO APPROVAL CHART)
	SPRINKLER RISER (FLATS)
	SPRINKLER RISER (COMMUNAL AREAS)
	CPVC SPRINKLER PIPE (FLATS)
	CPVC SPRINKLER PIPE (COMMUNAL AREAS)
	GALVANISED STEEL SPRINKLER PIPE (COMMUNAL AREAS)
	SPRINKLER PIPE ENCASED BY TRACE HEATING AND LAGGING
	SPRINKLER VALVE GROUP

HANGERS AND SUPPORTS SPACING - FOR CPVC PIPEWORK	
NOMINAL PIPE SIZE: (MILLIMETERS)	SUPPORT SPACING: (METERS)
(20)	(1.7)
(25)	(1.8)
(32)	(2.0)
(40)	(2.1)
(50)	(2.4)
(65)	(2.7)
(80)	(3.0)



A05	DRAWING BACK FOR APPROVAL	K.D	L.J.C	01/08/22
C04	DRAWING UPDATED	K.D	L.J.C	27/04/22
C03	DRAWING UPDATED TO BS9251:2021 REQUIREMENTS	K.D	L.J.C	29/11/21
R01	CORRIDOR DISTRIBUTION AND FLATS UP ISSUED TO RECORD	K.D	C.P.M	04/10/21
C02	RISER POSITION AMENDED	C.P.M	K.D	07/07/21
C01	DRAWING UP-ISSUED TO CONSTRUCTION	C.P.M	K.D	08/06/21
A04	HEADS AMENDED TO AVOID LIVING SPACE WHERE POSSIBLE	C.P.M	K.D	18/05/21
A03	VALVE GROUP PER APARTMENT ADDED	C.P.M	K.D	25/04/21
A02	LAYOUT AMENDED	K.E.D	T.B.R	21/04/21
REV.	REVISION DETAIL	DRN.	CHK'D	DATE

DRAWING STATUS:	SCALE:	SIZE:
FOR APPROVAL	1:75	A1
DRAWING NUMBER:	TFS-RS-9380-0L061	REV:
		A05



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DRAWING TITLE:
SPRINKLER LAYOUT
SIXTH FLOOR



PROJECT:
INDIA HOUSE
MANCHESTER

CLIENT:
WATES

CLIENT INFORMATION:
PLEASE REVIEW THIS DRAWING AND ADVISE TRIANGLE FIRE SYSTEMS LTD BY RETURN IF YOU WISH TO MAKE ANY COMMENTS, OR ARE AWARE OF ANY FACTORS THAT MAY AFFECT OUR DESIGN LAYOUT OR INSTALLATION. N.B., POSITIONING OF SPRINKLERS IS CRITICAL TO ENSURE COMPLIANCE WITH DESIGN STANDARD. PLEASE FORWARD THIS DRAWING TO ALL PARTIES INVOLVED IN THE DESIGN APPROVAL PROCESS INCLUDING THE AUTHORITY HAVING JURISDICTION E.G. FIRE OFFICER, BUILDING CONTROL ETC. INFORMATION THAT EFFECTS THE TIMELY COMPLETION OF OUR DESIGNS OR RESULT IN CHANGES TO THE ORIGINAL SCOPE OF WORK WILL BE RECORDED AND PROCESSED AS A VARIATION TO THE ORIGINAL CONTRACT. SPRINKLERS & COVER PLATES MUST NOT BE PAINTED. SPRINKLER PIPE ROUTES HAVE BEEN CO-ORDINATED WITH THE INFORMATION PROVIDED PIPE ROUTES MAY VARY ON SITE.

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(65)	(2.7)
(80)	(3.0)

EXTERNAL DRAWING REFERENCE:
ARCH: -
ELECTRICAL: -
MECHANICAL: -