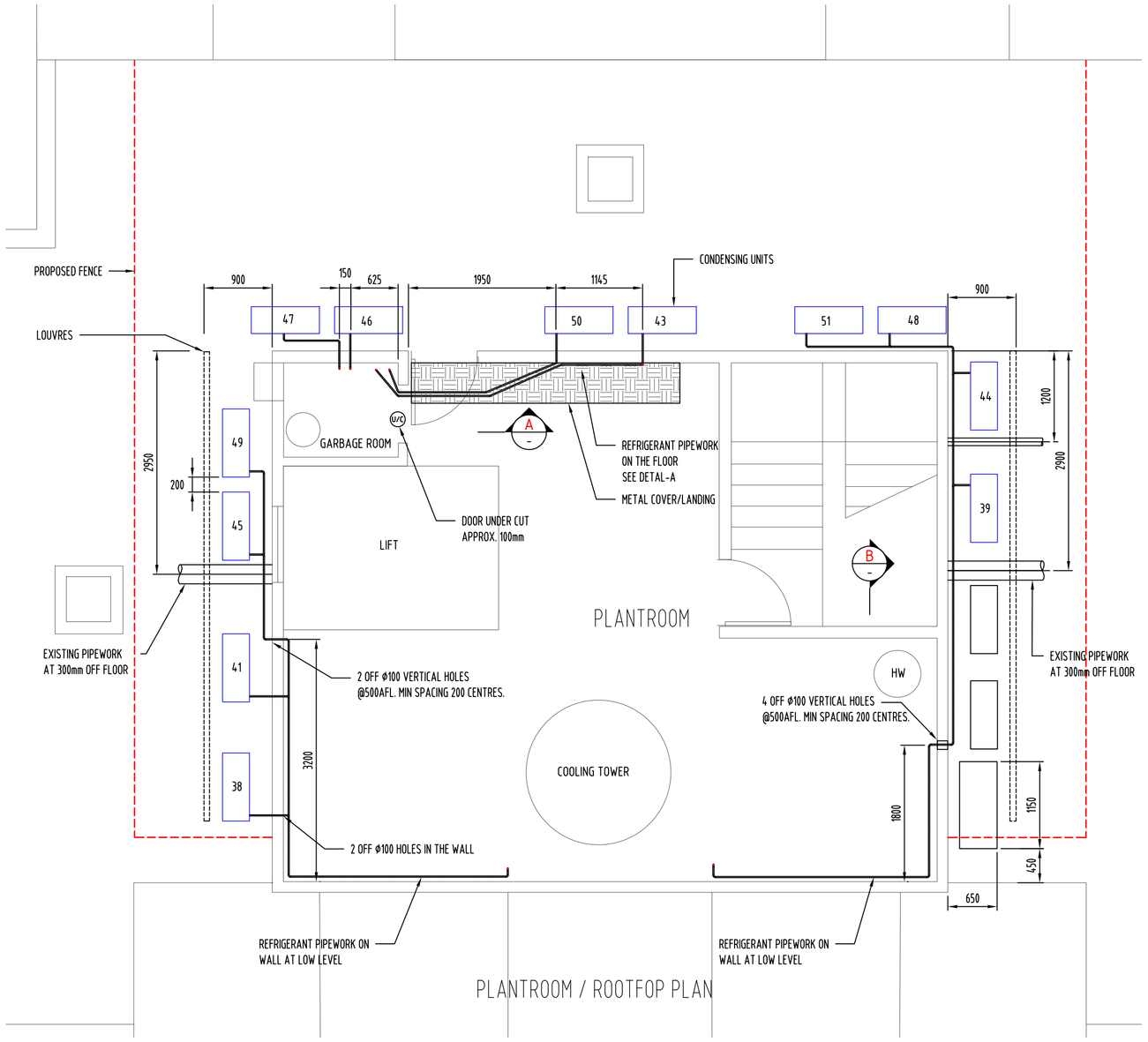
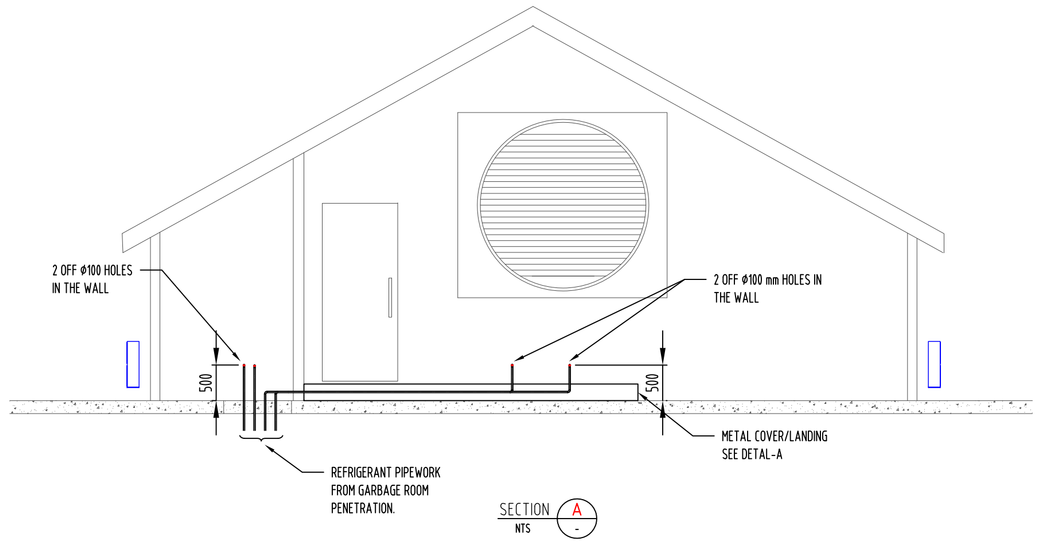
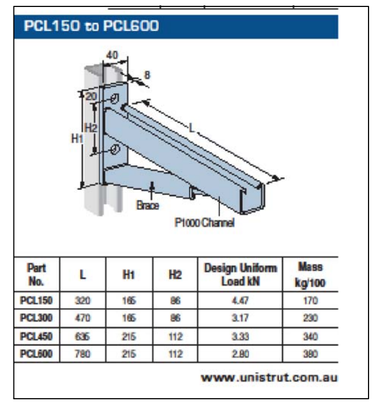


PLANTROOM / ROOTFOP PLAN





Part No.	L	H1	H2	Design Uniform Load kN	Mass kg/100
PCL150	320	185	86	4.47	170
PCL300	470	185	86	3.17	230
PCL450	635	215	112	3.33	340
PCL600	780	215	112	2.80	380

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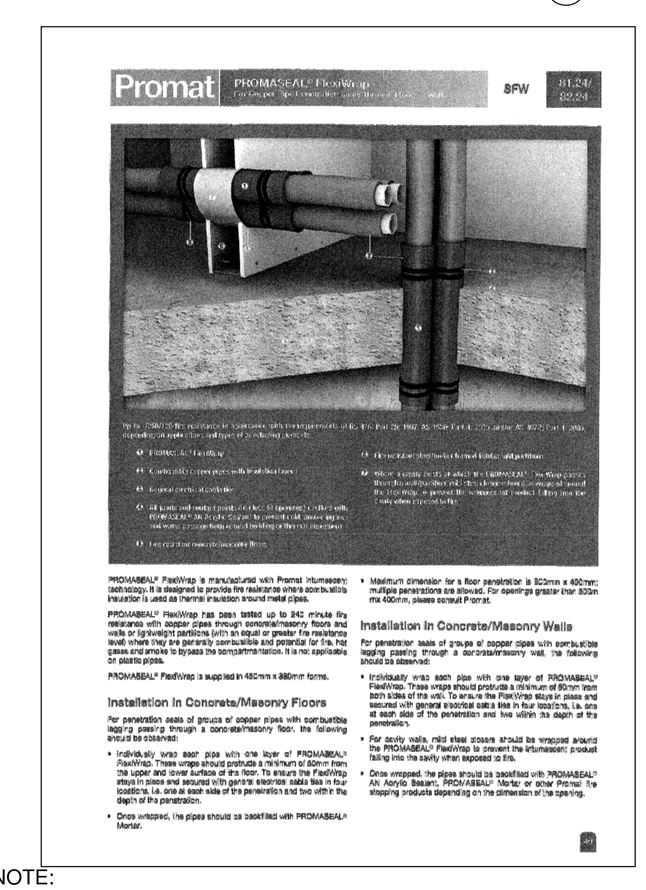
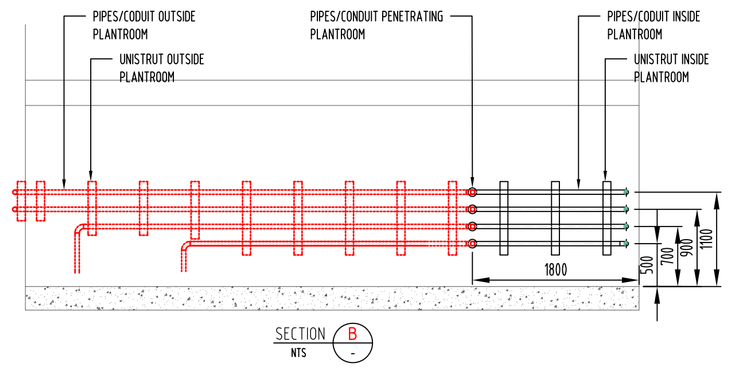
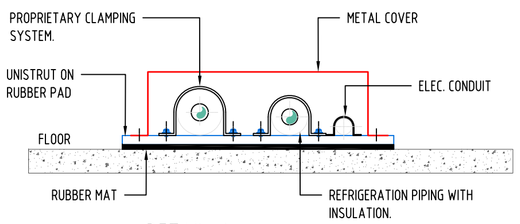
PROPRIETARY 316 STAINLESS STEEL BRACKET(TYP)
NTS. GALV ALTERNATIVE IS ACCEPTABLE

A	SHOP DRAWING	17.05.13
REV. NO.	REASON	DATE
REVISIONS		







DETAIL-A
FLOOR MOUNTING PIPES
NTS

Promat PROMASEAL® FlexWrap BFW 31.24/ 08.04

PROMASEAL® FlexWrap is manufactured with Promat intumescent technology. It is designed to provide fire resistance and is also suitable as thermal insulation around metal pipes.

PROMASEAL® FlexWrap has been tested up to 240 minute fire resistance with copper pipes through concrete/masonry floors and walls or lightweight partitions (with an equal or greater fire resistance level) where they are generally combustible and potential for fire, hot gases and smoke to bypass the compartmentation. It is not applicable on plastic pipes.

PROMASEAL® FlexWrap is supplied in 480mm x 880mm forms.

Installation in Concrete/Masonry Floors

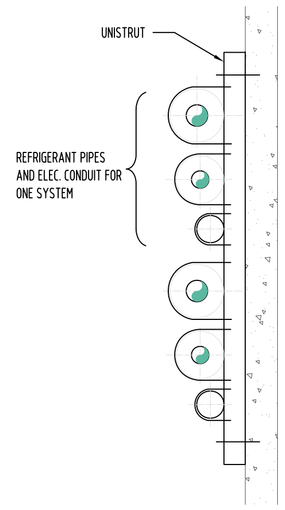
For penetration seals of groups of copper pipes with combustible lagging passing through a concrete/masonry floor, the following should be observed:

- Individually wrap each pipe with one layer of PROMASEAL® FlexWrap. Three wraps should protrude a minimum of 80mm from the upper and lower surface of the floor. To ensure the FlexWrap stays in place and secured with gaps to electrical cable ties in four locations, i.e. one at each side of the penetration and two within the depth of the penetration.
- Once wrapped, the pipes should be backfilled with PROMASEAL® Mortar.
- Maximum dimension for a floor penetration is 623mm x 400mm; multiple penetrations are allowed. For openings greater than 800m mx 400mm, please consult Promat.

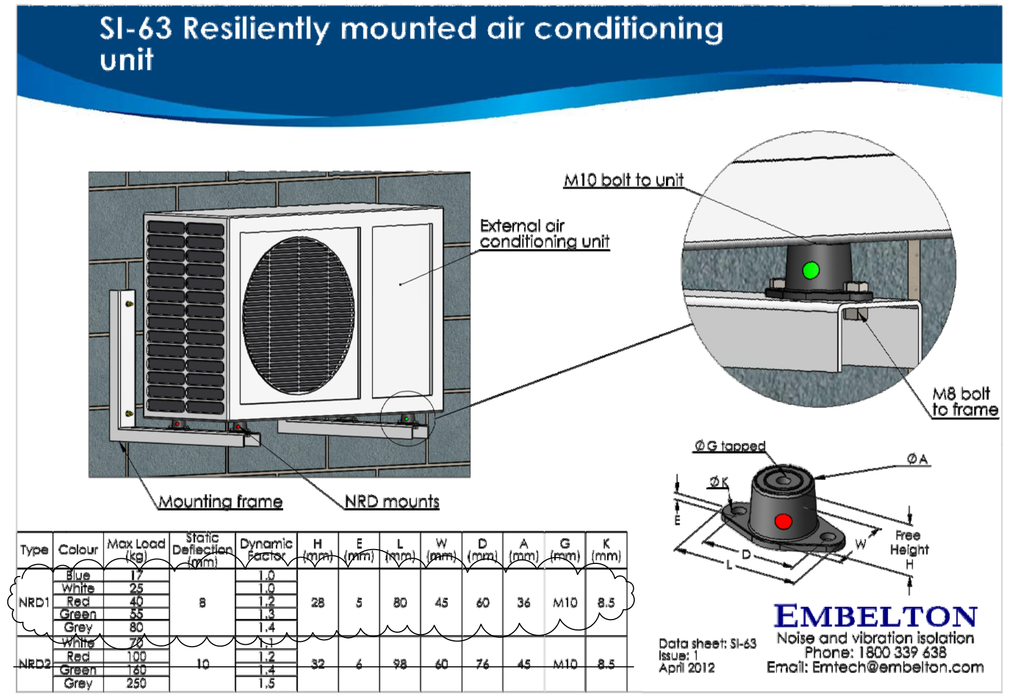
Installation in Concrete/Masonry Walls

For penetration seals of groups of copper pipes with combustible lagging passing through a concrete/masonry wall, the following should be observed:

- Individually wrap each pipe with one layer of PROMASEAL® FlexWrap. Three wraps should protrude a minimum of 80mm from both sides of the wall. To ensure the FlexWrap stays in place and secured with galvanised steel cable ties in four locations, i.e. one at each side of the penetration and two within the depth of the penetration.
- For cavity walls, mild steel closure should be wrapped around the PROMASEAL® FlexWrap to prevent the intumescent product falling into the cavity when exposed to fire.
- Once wrapped, the pipes should be backfilled with PROMASEAL® AX Acrylic Sealant, PROMASEAL® Mortar or other Promat fire stopping products depending on the dimension of the opening.



TYPICAL PIPEWORK INSTALLATION ON WALLS
NTS

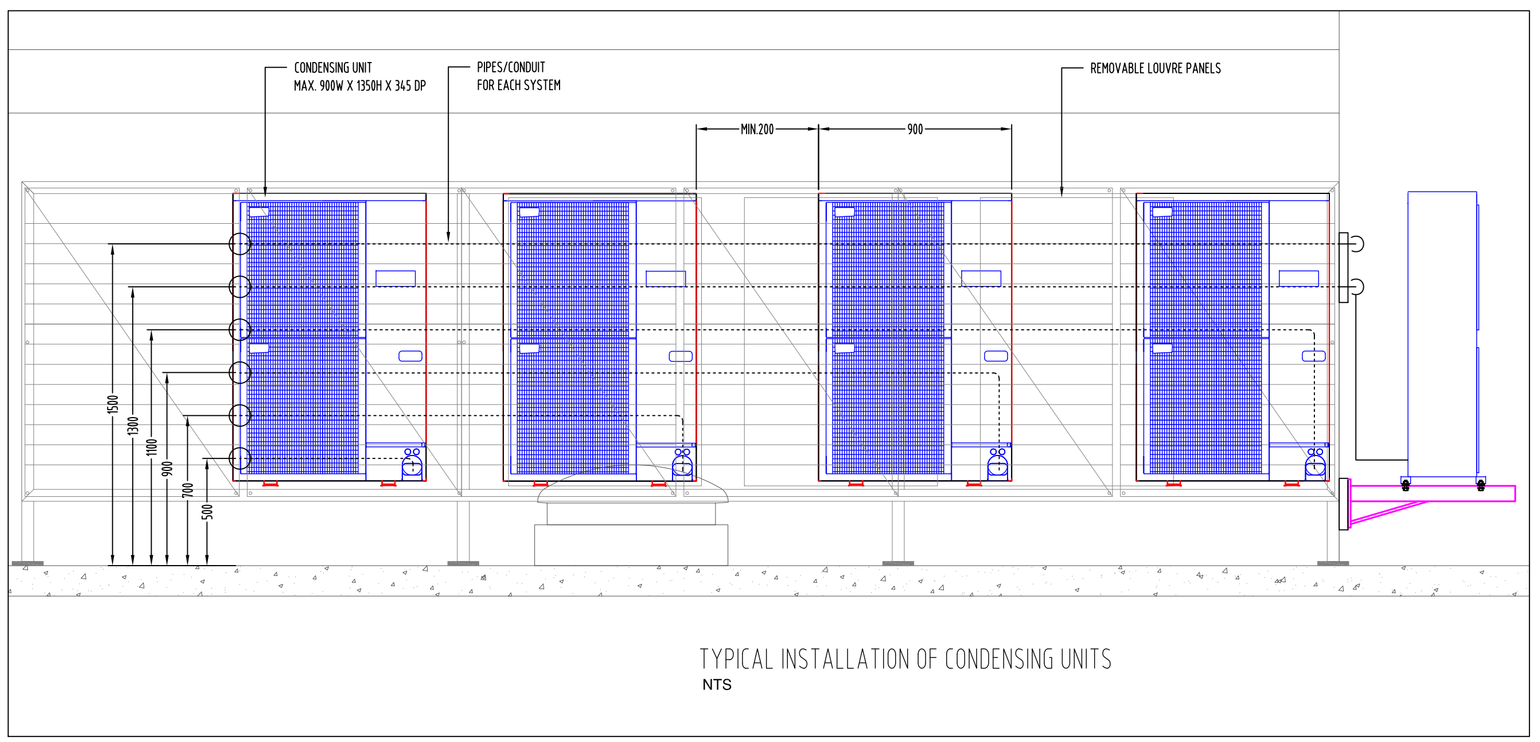


Type	Colour	Max Load (kg)	Static Deflection (mm)	Dynamic factor	H (mm)	E (mm)	L (mm)	W (mm)	D (mm)	A (mm)	G (mm)	K (mm)
NRD1	Blue	17	B	1.0	28	5	80	45	60	36	M10	8.5
	White	25		1.5								
	Red	40		1.2								
	Green	55		1.3								
	Grey	80		1.4								
NRD2	White	75	10	1.1	32	6	98	60	76	45	M10	8.5
	Red	100		1.2								
	Green	160		1.4								
	Grey	250		1.5								

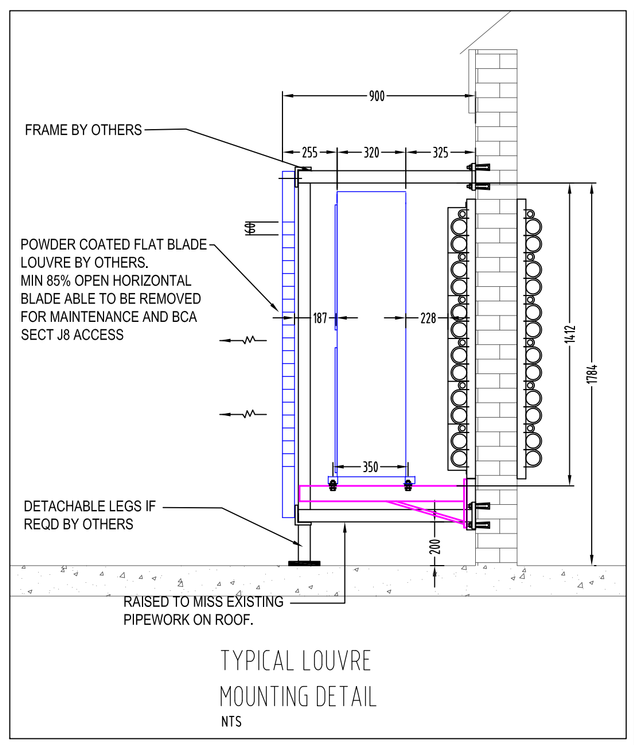
SELECT TO ACHIEVE MIN 93% EFFICIENCY AND 4 POINT UNEQUAL WEIGHT DISTRIBUTION.
EMBELLTON ANTI VIBRATION MOUNT OR EQUAL. SIMILAR TO SI-63 REFER DETAIL

NOTE:
- PROVIDE NCC/BCA 2012 COMPLIANT FIRE WALL/FLOOR PENETRATION SEALING. REFER SPEC NOTES.
-THE ARRANGEMENT ABOVE IS A DIRECT COPY OFF "PROMAT" TECHNICAL DOCUMENTWHICH HAS BEEN ADVISED AS HAVING BEEN TESTED IN ACCORDANCE WITH AS1530.4-1997 & AS4072.1-1992.
-CONFIRM AND ADJUST AS NECESSARY TO COMPLY. IF IN DOUBT CONTACT "PROMAT" DIRECT FOR FURTHER TECHNICAL DETAILS.
- ELECTRICAL CABLES WILL NEED TO BE INSIDE METAL CONDUIT WHERE PASSING THROUGH FIRE RATED STRUCTURE.

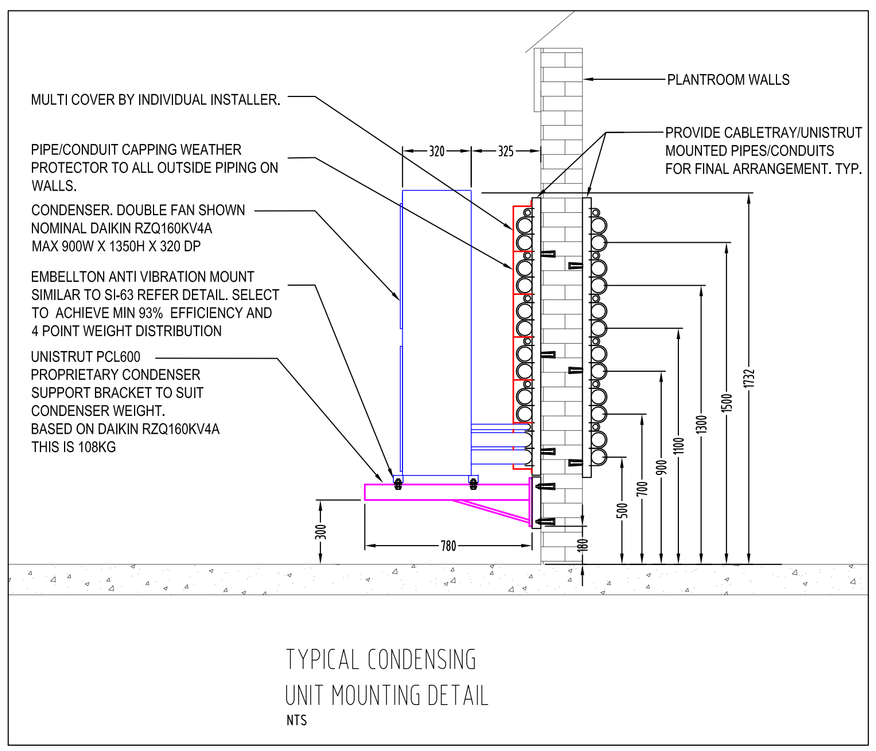
TYPICAL FIRE RATED SLAB-PIPE PENETRATION DETAIL
NTS



TYPICAL INSTALLATION OF CONDENSING UNITS
NTS



TYPICAL LOUVRE MOUNTING DETAIL
NTS



TYPICAL CONDENSING UNIT MOUNTING DETAIL
NTS

MECHANICAL CONTRACTOR

PJS AIR
Air Conditioning Engineering and Installation.
UNIT 12, 2 GARLING ROAD KINGS PARK NSW 2148
PHONE: 02 96763611 FAX: 02 96763625

CONSULTANT

COLIN SHEARS & ASSOCIATES
CONSULTING ENGINEERS
29 Yallora Crescent, Thornleigh, NSW, 2120
CSA
Telephone 0419 015 453
e-mail: colin.s@csaconsulting.com.au

PROJECT

IORA APARTMENTS
KIRRIBILLI. NSW

TITLE

MECHANICAL SERVICED
BUILDING 2- AIR CONDITIONING
PLANTROOM PLAN AND ELEVATION

DRAWN BY: MT	TYPE OF ISSUE: SHOP DRAWING	
CHECKED BY: PJ	JOB No.: 20311	
SCALE: 1:20@A1	DRAWING No.: MS-05	REVISION: A
ISSUE DATE: MAY '13		