



SUPPLY AIR ONLY	DUCT WIDTH (W) IN MM	R1	R2	R3
<b>DUCT SPLITTER</b>		SPLITTER RADI		

$L = \text{DUCT WIDTH} + 100$   
 $25$        $25$   
 2 off  $\phi 10$  HOLES FOR  
 M8 THREADED RODS  
 50  
 50

ALL DUCTS TO BE SUPPORTED USING, 30x50x1.6 CHANNEL.  
 MAX. DUCT SUPPORT SPACING = 3000

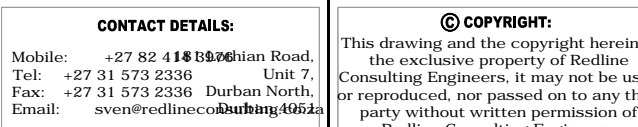
**TYPICAL DUCT HANGER DETAIL.**

1. ALL DUCTWORK TO BE MANUFACTURED TO THE LATEST S.M.A.C. STANDARDS, WITH FLANGED JOINTS ON DUCTS EXCEEDING 600 SEMI PERCH OR ONE SIDE EXCEEDS 750 AND S&D JOINTS ON SMALLER DUCTS.
2. ALL A/C TO DUCTS TO BE EXTERNALLY INSULATED WITH 25mm FRK INSULATION. SPOGTS TO BE EXTERNALLY INSULATED WITH 25 FOL FACED FIBREGLASS.
3. ALL VENTILATION DUCTING TO BE UNINSULATED.
4. ALL FLEXIBLE DUCTING TO BE FACTORY PRE-INSULATED.
5. ALL FLEXIBLE DUCTING TO BE FIXED TO SPOGTS WITH JUBILEE CLAMPS AND STRAPPED WITH DUCT TAPE.
6. ALL HANGERS AND BRACKETS TO BE GALVANISED.
7. ALL DUCTWORK TO BE HUNG ON JOGSA16 G.S.M CHANNEL TRAPEZE HANGERS WITH 10mm GALV PLATE.
8. FLEXIBLE CONNECTIONS TO BE FITTED TO ALL DUCTING BETWEEN AIRHANDLING AND PACKAGE UNITS, FANS, ETC.

1. AIR CONDITIONING DUCTWORK SHALL BE IN ACCORDANCE WITH SANS 1238-2005: SECTION 5.
2. THE SELECTED AIR CONDITIONING SYSTEM SHALL HAVE C.O.P. (CO-EFFICIENT OF PERFORMANCE) EQUAL TO OR GREATER THAN THE REQUIRED VALUE STIPULATED IN THE SANS 1238-2005 CALCULATION.
3. VENTILATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH SANS 10400 PART 0.
4. KITCHEN CAPTION INSTALLATION AND EXTRACT DUCTWORK SHALL BE IN ACCORDANCE WITH SANS 1650-2002 SECTION 2.
5. AIR VELOCITY NOT TO EXCEED 0.5m/s AT A HEIGHT OF 1800mm ABOVE FINISHED FLOOR LEVEL.
6. THE EXHAUST FLOW IN THE KITCHENS TO BE BASED ON THE KITCHEN CAPTION SIZE (NOT THE AMOUNT INDICATED IN THE VENTILATION SCHEDULE - THIS IS A MINIMUM REQUIREMENT FOR HUMAN USE).
7. THE FRESH AIR MAKE UP SYSTEMS (FOR KITCHEN CAPTION EXTRACT) MUST BE LOCATED AT THE EXHAUST POINT, WHERE 70% OF THE FRESH AIR SUPPLY TO BE DISTRIBUTED IN A LINEAR FASHION ALONG THE KITCHEN CAPTION. THE REMAINING AMOUNT MAY BE DISTRIBUTED TO THE WASHING / SEATING AREAS, HOWEVER THE MINIMUM AMOUNT AS PER THE ATTACHED SCHEDULE MUST BE ADHERED TO.
8. IF THE CONDITIONING SYSTEM IS INSTALLED, THE FRESH AIR SHOULD BE INTRODUCED TO SUCH SYSTEM BEFORE BEING DISTRIBUTED TO THE SPACE.

<b>CLIENT SIGNATURE:</b> NAME:  SIGNATURE:	<b>ENGINEERS SIGNATURE:</b> NAME:  SIGNATURE:
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<b>A</b>	ISSUED FOR INFORMATION ONLY	<b>G.L.</b>	<b>11.11</b>
<b>REVISION:</b>	<b>DESCRIPTION:</b>	<b>DRAWN BY:</b>	<b>DATE:</b>



**DRAWING TITLE:**

KITCHEN  
HVAC LAYOUT

<b>DESIGN BY:</b> Mr Sven Arro Pr Tech Eng 200870148	<b>STATUS:</b> <div style="color: red; font-weight: bold; font-size: 1.2em;">COUNCIL APPROVAL</div>
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LOCAL AUTHORITY STAMPS

NOTES &amp; LEGENDS

CONSULTANT

DRAWING INFORMATION

## MECHANICAL SOLUTIONS FOR THE BUILT ENVIRONMENT