



RIBBLE VALLEY
BOROUGH COUNCIL

rec'd
4/7/12
amended 10/7/12

For office use only

Application No: 320120607P

Date received

Fee paid £

Receipt No:

Council Offices, Church Walk, Clitheroe, Lancashire. BB7 2RA Tel: 01200 425111 www.ribblevalley.gov.uk

Application for Planning Permission.
Town and Country Planning Act 1990

Publication of applications on planning authority websites.

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

1. Applicant Name, Address and Contact Details

Title:	Mr	First name:	Mike	Surname:	Thomson
Company name:	E H Booths & Co				
Street address:	Booths Central Office			Country Code	National Number
	Longridge Road			Telephone number:	Extension Number
				Mobile number:	
Town/City:	Ribblesdale			Fax number:	
County:	Lancashire			Email address:	
Country:	United Kingdom				
Postcode:	PR2 5BX				
Are you an agent acting on behalf of the applicant? ☒ Yes ☐ No					

2. Agent Name, Address and Contact Details

Title:	Mr	First Name:	Jeremy	Surname:	Birtwell
Company name:	Wilson Mason & Partners				
Street address:	Upland House Spring Lane			Country Code	National Number
	Samlesbury			Telephone number:	Extension Number
				Mobile number:	
Town/City:	Preston			Fax number:	
County:	Lancashire			Email address:	
Country:	United Kingdom				
Postcode:	PR5 0UX				
	jbirtwell@wilsonmason.co.uk				

3. Description of the Proposal

Please describe the proposed development including any change of use:

Extension of existing fence, car park crossing point, alteration of public right of way, modification of air intake duct, installation of trolley shelter, satellite dish & extract

Has the building, work or change of use already started? ☐ Yes ☒ No

4. Site Address Details

Full postal address of the site (including full postcode where available)

House:		Suffix:	
House name:	E H BOOTHS & CO LTD		
Street address:	BERRY LANE		
	LONGRIDGE		
Town/City:	PRESTON		
County:			
Postcode:	PR3 3NH		

Description of location or a grid reference
(must be completed if postcode is not known):

Easting:	360294
Northing:	437577

Description:

5. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application?

☒ Yes ☐ No

If Yes, please complete the following information about the advice you were given (this will help the authority to deal with this application more efficiently):

Officer name:

Title: Mr First name: Graeme Surname: Thorpe

Reference: Booths Longridge

Date (DD/MM/YYYY): 07/12/2011 (Must be pre-application submission)

Details of the pre-application advice received:

Recommendation that acoustic fence be lengthened to segregate vehicles and pedestrians, and possibly increase height.

6. Pedestrian and Vehicle Access, Roads and Rights of Way

Is a new or altered vehicle access proposed to or from the public highway?

☐ Yes ☒ No

Is a new or altered pedestrian access proposed to or from the public highway?

☒ Yes ☐ No

Are there any new public roads to be provided within the site?

☐ Yes ☒ No

Are there any new public rights of way to be provided within or adjacent to the site?

☒ Yes ☐ No

Do the proposals require any diversions/extinguishments and/or creation of rights of way?

☒ Yes ☐ No

If you answered Yes to any of the above questions, please show details on your plans/drawings and state the reference of the plan(s)/drawings(s)

5432 L(00)02 Car Park

7. Waste Storage and Collection

Do the plans incorporate areas to store and aid the collection of waste?

☒ Yes ☐ No

If Yes, please provide details:

A bin store is included by the Warehouse entrance, as previously issued under 3/2011/0475

Have arrangements been made for the separate storage and collection of recyclable waste?

☒ Yes ☐ No

If Yes, please provide details:

Waste collection organised by Booths

8. Authority Employee/Member

With respect to the Authority, I am:

- (a) a member of staff
- (b) an elected member
- (c) related to a member of staff
- (d) related to an elected member

Do any of these statements apply to you?

☐ Yes ☒ No

9. Materials

Please state what materials (including type, colour and name) are to be used externally (if applicable):

9. (Materials continued)

320120607 P

Walls - description:Description of *existing* materials and finishes:

Rendered and painted blockwork

Description of *proposed* materials and finishes:

No change

Roof - description:Description of *existing* materials and finishes:

Fibre cement sheet to main building, single ply membrane to recent extensions

Description of *proposed* materials and finishes:

No change

Windows - description:Description of *existing* materials and finishes:

Aluminium polyester powder coated

Description of *proposed* materials and finishes:

No change

Doors - description:Description of *existing* materials and finishes:

Glazed aluminium polyester powder coated glazed to main shop entrance Steel security doors to warehouse exit and emergency exits Steel roller shutter to warehouse entrance.

Description of *proposed* materials and finishes:

No change

Boundary treatments - description:Description of *existing* materials and finishes:

Acoustic fence to main car park north elevation, 2m high with close boarding on housing estate sign, hit and miss boarding on car park side.

Description of *proposed* materials and finishes:

Acoustic fence to be extended to new public right of way

Vehicle access and hard standing - description:Description of *existing* materials and finishes:

Macadam hard standing to all car park areas

Description of *proposed* materials and finishes:

No change

Lighting - add descriptionDescription of *existing* materials and finishes:

2 no. lamp standards within main car park, and bulkhead lights on ceiling

Description of *proposed* materials and finishes:

No change

Are you supplying additional information on submitted plan(s)/drawing(s)/design and access statement?

☒ Yes ☐ No

If Yes, please state references for the plan(s)/drawing(s)/design and access statement:

5432 L(00)02 Car Park

10. Vehicle Parking

Please provide information on the existing and proposed number of on-site parking spaces:

Type of vehicle	Existing number of spaces	Total proposed (including spaces retained)	Difference in spaces
Cars	135	135	0
Light goods vehicles/public carrier vehicles	0	0	0
Motorcycles	0	0	0
Disability spaces	4	4	0
Cycle spaces	0	0	0
Other (e.g. Bus)	9	8	-1
Short description of Other	parent and child spaces		

11. Foul Sewage

Please state how foul sewage is to be disposed of:

Mains sewer

☒

Package treatment plant

☐

Unknown

☐

Septic tank

☐

Cess pit

☐

Other

Are you proposing to connect to the existing drainage system?

☐ Yes ☒ No ☐ Unknown

12. Assessment of Flood Risk

Is the site within an area at risk of flooding? (Refer to the Environment Agency's Flood Map showing flood zones 2 and 3 and consult Environment Agency standing advice and your local planning authority requirements for information as necessary)

☐ Yes ☒ No

If Yes, you will need to submit an appropriate flood risk assessment to consider the risk to the proposed site

Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)?

☐ Yes ☒ No

Will the proposal increase the flood risk elsewhere?

☐ Yes ☒ No

How will surface water be disposed of?

☐ Sustainable drainage system

☒ Main sewer

☐ Pond/lake

☐ Soakaway

☐ Existing watercourse

13. Biodiversity and Geological Conservation

To assist in answering the following questions refer to the guidance notes for further information on when there is a reasonable likelihood that any important biodiversity or geological conservation features may be present or nearby and whether they are likely to be affected by your proposals

Having referred to the guidance notes, is there a reasonable likelihood of the following being affected adversely or conserved and enhanced within the application site, OR on land adjacent to or near the application site:

a) Protected and priority species

☐ Yes, on the development site ☐ Yes, on land adjacent to or near the proposed development ☒ No

b) Designated sites, important habitats or other biodiversity features

☐ Yes, on the development site ☐ Yes, on land adjacent to or near the proposed development ☒ No

c) Features of geological conservation importance

☐ Yes, on the development site ☐ Yes, on land adjacent to or near the proposed development ☒ No

14. Existing Use

Please describe the current use of the site:

Supermarket with car park

Is the site currently vacant? ☐ Yes ☒ No

Does the proposal involve any of the following?

If yes, you will need to submit an appropriate contamination assessment with your application

Land which is known to be contaminated? ☐ Yes ☒ No

Land where contamination is suspected for all or part of the site? ☐ Yes ☒ No

A proposed use that would be particularly vulnerable to the presence of contamination? ☐ Yes ☒ No

15. Trees and Hedges

Are there trees or hedges on the proposed development site? ☐ Yes ☒ No

And/or: Are there trees or hedges on land adjacent to the proposed development site that could influence the development or might be important as part of the local landscape character?

☐ Yes ☒ No

If Yes to either or both of the above you may need to provide a full Tree Survey, at the discretion of your local planning authority. If a Tree Survey is required this and the accompanying plan should be submitted alongside your application. Your local planning authority should make clear on its website what the survey should contain, in accordance with the current 'BS5837: Trees in relation to construction - Recommendations'.

16. Trade Effluent

Does the proposal involve the need to dispose of trade effluents or waste?

☐ Yes ☒ No

17. Residential Units

Does your proposal include the gain or loss of residential units?

☐ Yes ☒ No

18. All Types of Development: Non-residential Floorspace

Does your proposal involve the loss, gain or change of use of non-residential floorspace?

☐ Yes ☒ No

19. Employment

If known, please complete the following information regarding employees:

320120607P

	Full-time	Part-time	Equivalent number of full-time
Existing employees	0	0	0
Proposed employees	0	0	0

20. Hours of Opening

If known, please state the hours of opening for each non-residential use proposed:

Use	Monday to Friday		Saturday		Sunday and Bank Holidays		Not Known
	Start Time	End Time	Start Time	End Time	Start Time	End Time	
A1	07:00:00	22:00:00	07:00:00	22:00:00	10:00:00	16:00:00	☐

21. Site Area

What is the site area?

170

sq metres

22. Industrial or Commercial Processes and Machinery

Please describe the activities and processes which would be carried out on the site and the end products including plant, ventilation or air conditioning. Please include the type of machinery which may be installed on site:

Not applicable

Is the proposal for a waste management development?

☐ Yes ☒ No

23. Hazardous Substances

Is any hazardous waste involved in the proposal?

☐ Yes ☒ No

24. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

☒ Yes ☐ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? (Please select only one)

☒ The agent ☐ The applicant ☐ Other person

25. Certificates (Certificate B)

Certificate of Ownership - Certificate B

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

I certify/The applicant certifies that I have/the applicant has given the requisite notice to everyone else (as listed below) who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest with at least 7 years left to run) of any part of the land or building to which this application relates.

Notice recipient				Date notice served
Name	Lancashire County Council			04/07/2012
Number:		Suffix:		
Street:	PO Box 78, County Hall			
Locality:	Fishergate			
Town:	Preston			
Postcode:	PR1 8XJ			

Title: Mr First name: Jeremy Surname: Birtwell
Person role: Agent Declaration date: 06/03/2012 ☒ Declaration made

25. Certificates (Agricultural Land Declaration)

Agricultural Land Declaration

Town and Country Planning (Development Management Procedure) (England) Order 2010 Certificate under Article 12

Agricultural Land Declaration - You Must Complete Either A or B

(A) None of the land to which the application relates is, or is part of an agricultural holding ☒

(B) I have/The applicant has given the requisite notice to every person other than myself/the applicant who, on the day 21 days before the date of this application, was a tenant of an agricultural holding on all or part of the land to which this application relates, as listed below: ☐

If any part of the land is an agricultural holding, of which the applicant is the sole tenant, the applicant should complete part (B) of the form by writing 'sole tenant - not applicable' in the first column of the table below

25. Certificates (Agricultural Land Declaration - continued)

Title: First Name: Surname:
Person role: Declaration date: ☒ Declaration Made

26. Declaration

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information.



Date



Design and Access Statement

Project Reference: 5432
Project Description: Booths Longridge ventilation and fence
Client: Booths
Date: 11 January 2012
Revision (2, 4 July 2012)

Background

Further to planning approval 3/2011/0475 approved on 12 August 2011, and subsequent submission for fence alterations under planning portal reference PP-01691039, we have received preliminary comments from Mr Graeme Thorpe of Longridge Council Planning department that the relocated air intake duct would need planning permission. In addition to this Longridge council and Booths head office have received comments regarding the newly installed acoustic fence.

As a consequence of dealing with these issues, we also wish to highlight additional proposed works and improvements.

For clarity, this proposal is for the following actions:

Fence – to take in comments from number 33, Planning, both our and Booths Health and safety advisors

Existing Air intake relocation – to take in comments from Planning and neighbours

Trolley bay design – to give Planning more information on what the previously approved trolley bay will look like

Satellite dish installation – to give Planning more information on the dish for lottery installation

Re-grading macadam road by exit – goods vehicles currently bottom out upon exit and so use the entrance. Both our and Booths Health and Safety advisors state this is too great a risk and must change.

Extract from preparation area

Heritage Statement

We are aware the east wall of the Booths supermarket is the only surviving part of Crumpax Mill.

The items above have no affect on this wall. The following is for information only.



The Crumpax Mill wall prior to works taking place



Images of the wall after lean to building removed, wall washed down and re-pointed in lime mortar





Extension of Fence



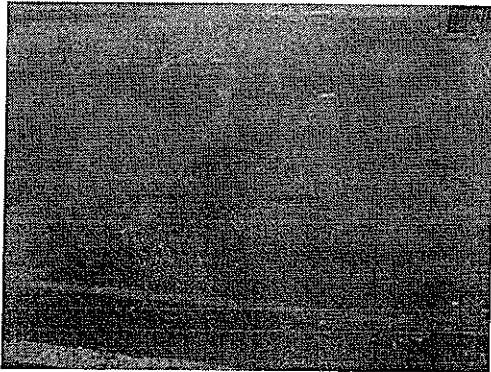
This image shows the currently installed acoustic fence. The fence height and length was discussed and agreed with 14 Birchfield Drive. Conversations between Booths contractor and 14 Birchfield have been positive and we understand these neighbours are happy with the fence.

Following discussions with Graeme Thorpe of Ribble Valley Planning we understand complaints from other neighbours have been forwarded.



These include complaints from a neighbour who has noted delivery vehicle lights are beamed through their window. Booths have instructed their delivery drivers to dip their headlights when reversing to reduce this.

A second point raised that local children have been playing around the HGV's. The lengthened fence will ensure that the HGV's will always be behind the fence when reversing. The lower height of the additional length of fence will mean pedestrians can safely see vehicles behind the fence moving whilst providing a high enough barrier to restrict children trying to vault the fence. This length of fence will reduce vehicle lights. As the fence will allow pedestrians to see over, it will have no acoustic properties. This safety aspect has been discussed and agreed with Eamonn Roberts of Ribble Valley Council.



Thirdly, complaints have been made that the deliveries are still noisy. There had been a construction problem at the door threshold where cages were bouncing over a small kerb. This has now been planed flat

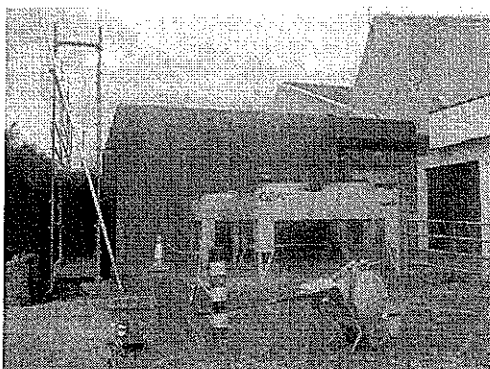
The image (above) shows the existing rough macadam path which is proposed to be turned into the new public right of way and allow the fence to be extended to this point, thus segregating pedestrians from HGV's

Relocation of air intake duct



This image shows the existing air intake duct which has needed to move up and right to miss the structure of the new extension.

The image also shows the existing external plant enclosure which will be reused for the new plant, as shown on planning application 2011/0475



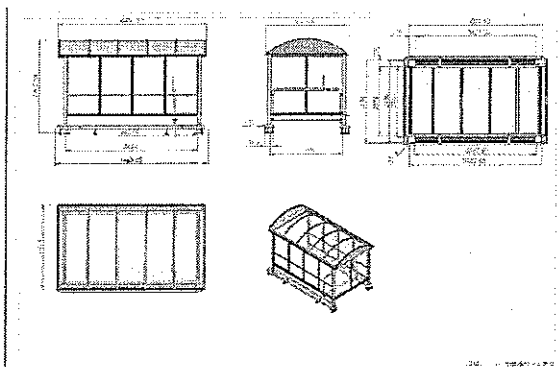
This image shows the location of the plant shown on the above application. It also shows that the new location of the air intake duct cannot be seen from the front of the site.

It finally shows the pipework from these condensers which will be hidden behind the fascia, and by a rendered top hat section to the front of the vertical pipes, painted cream to match existing.

The existing and new location of the air intake duct are shown on drawing 5432 L(1)-02 and 5432 L(2)-05. This duct is an air intake duct which provides fresh air to the store. This is not an extract, and produces negligible noise.

Trolley Shelter

The location and approximate size of this was previously approved under 3/2011/0475. The following show additional information and aesthetics.



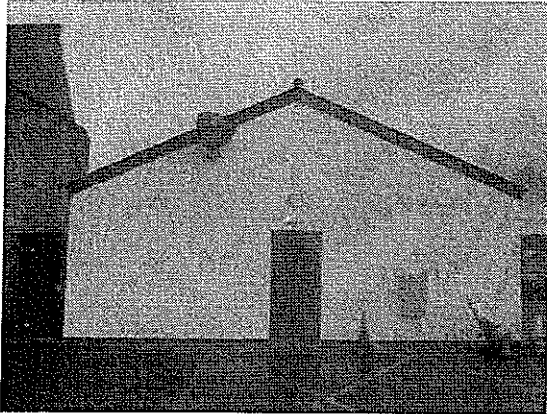
This image shows the proposed design of the enclosed trolley shelter as shown on the car park layout.

This is shown on drawing 5432 L(00)02 and full size details have been issued as a separate document.

320120607P



Satellite Dish



This image shows satellite dish which has been installed to provide Lottery counter within the sales area. This has been shown on the elevations of drawing 5432 L(1-02)

Re-grade of Macadam car park exit



This image shows the main car park exit. The large scratches on the macadam show that the HGV's are bottoming out on the hump. We proposed to plane the macadam to reduce this hump.

Extract from preparation area

The Booths store offer will include raw meat, raw fish, deli, cheese, olives, bread, cooked counter, which were shown on the previous application. These need an extract, situated behind the parapet of the recently built extension. This has been shown on drawings 5432 L(1-05), and a series of additional documents relating to the extract kit.

A matching situation has previously been installed at Booths Sharoe Green. This is a store also within a built up residential area, where there have been no complaints due to noise or smell.



Store access and exits

The main Booths Longridge store and warehouse entrance and exits will remain unchanged.

Drainage

The above items make no change to the drainage situation.

High Temperature Extract Fans Centrifume (CFR) - Roof Mounted Kitchen Hood Extract

1.1. General

A. Provide a roof mounted kitchen hood extract fan unit to meet the performance and configuration as indicated in the schedule and detail drawings. The roof mounted kitchen hood extract fan unit shall conform to AMCA standard 211 and 311. The unit shall be of the Centrifume roof mounted kitchen hood extract fan type as manufactured by VES Andover Ltd a company accredited with BS EN ISO 9001:2008.

1.2. Unit Construction

A. The unit shall be provided pre-assembled comprising of a heavy-gauge aluminum case with a rigid internal support structure, centrifugal backward curved fan without scroll, and belt driven motor mounted out of air stream on a heavy gauge steel drive frame assembly

B. the case shall be constructed with a one-piece leak proof wind band with an integral rolled bead for added strength and shall be joined to the curb cap with a continuously welded seam.

C. The unit shall be suitable for mounting on a horizontal roof curb upstand.

D. The case shall include a removable lid for motor & drive access and maintenance

E. The unit shall be provided with a grease & water collection system incorporated into the case design, including a built-in discharge spout with support for an optional collection trough.

F. The unit casework shall incorporate a high quality leak resistant gasket on top access cover.

1.3. Fan

A. The fan impeller shall be centrifugal backward curved, constructed of aluminum and shall include a wheel cone carefully matched to the inlet eye for precise running tolerances. The impeller shall be statically and dynamically balanced to AMCA Standard 204-05, and be tested to ANSI/AMCA Standard 210-99 and AMCA Standard 300-96.

B. The unit shall be available with a High Pressure alternative impeller where the schedule specifies duty points beyond the capabilities of the standard impeller.

1.4. Motor

A. The motor shall be heavy-duty ball bearing type carefully matched to the fan load and supplied at the specified voltage, phase, and enclosure as indicated in the schedule and detail drawings

B. Motors shall be readily accessible for maintenance

C. The motor support frame shall be thermally insulated from the casework with a foil reinforced barrier sheet.

D. Motors and drives shall be mounted on anti vibration mounts, out of the air stream where no steel-to-steel contact between rotating components and the base shall occur.

E. Fresh air for motor cooling shall be drawn into the motor compartment through a ten- square-inch tube free of discharge contaminants.

F. Optional two speed motors shall be available on request as indicated in the schedule and detail drawings.

PRODUCT SPECIFICATION

1.5. Drives

- A. Motors and drives shall be mounted out of the air stream and be suitable for servicing without disturbing the roof mounted housing.
- B. Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block ball bearings.
- C. Bearings shall be selected for a minimum L10 life in excess of 100,000 hours (L50 average life in excess of 500,000 hours) at maximum cataloged operating speed.
- D. Drives shall be sized for a minimum of 150 percent of driven power.
- E. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts.
- F. Motor pulleys shall be adjustable for final system balancing.

1.6. Operation Environment

- A. The unit shall be designed to operate in ambient temperatures from 0°C up to 190°C, and can run continuously at up to 100% humidity level.

1.7. Controls

- A. The units shall be fully compatible with inverter speed control for single and three phase supply.
- B. The inverters shall be provided with a pre-programmed remote fan speed controller.
- C. The unit shall be fully compatible with two speed controllers for three phase two speed motors mounted as indicated in the schedule and detail drawings.

1.8. Ancillaries

- A. The unit shall be fully compatible with a standard range of duct-mounted silencers.
- B. The silencer shall be a rigidly constructed single skinned galvanised sheet steel case lining incorporating internal splitting vanes lined with resin bonded mineral wool and polythene for ease of maintenance.
- C. The silencer shall incorporate removable interior splitters via a sealed service panel for ease of inspection & maintenance.
- D. The silencer casework shall be provided naturally finished in high quality galvanised steel as standard. Optional powdercoated finish as standard Signal Grey to RAL7004. Colour to be in accordance with schedule.
- E. The unit shall be available with optional backdraught shutters suitable for duct mounting prior to the unit.
- F. The unit shall be compatible with optional profiled soaker sheet bases.
- G. Ancillaries shall be of the Centrifume (CFR) type as manufactured by VES Andover Ltd.
- D. The unit shall be supplied with a pre-wired motor isolator as standard. The isolator shall be externally

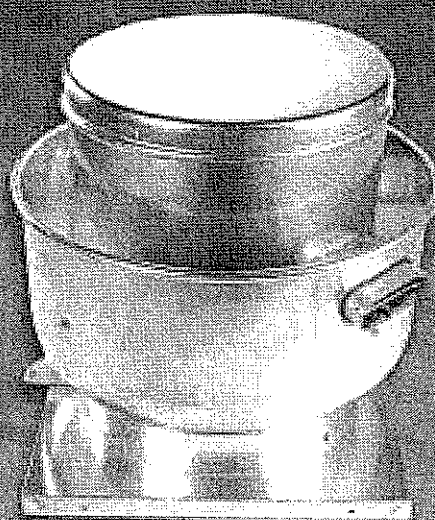
Download specification from www.ves.co.uk/information-centre



320120607P

CENTRIFUME

The Kitchen Extract Fan Range



**Roof and Duct
Mounting Units**

**For High Temperature
Polluted Air**

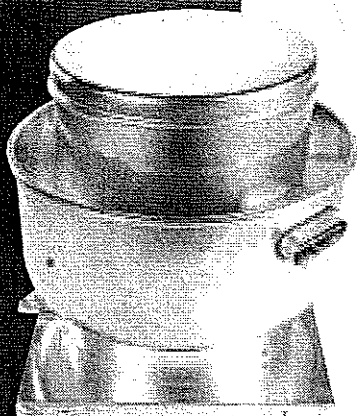
**Volumes from
0.2 to 9.5m³/sec**

Unique Design Features

With



You Breathe Easy



Model CFR Unit

Centrifume

The Centrifume fans have been designed to meet the arduous conditions found in restaurant kitchen hood extract systems - hot air with high grease content.

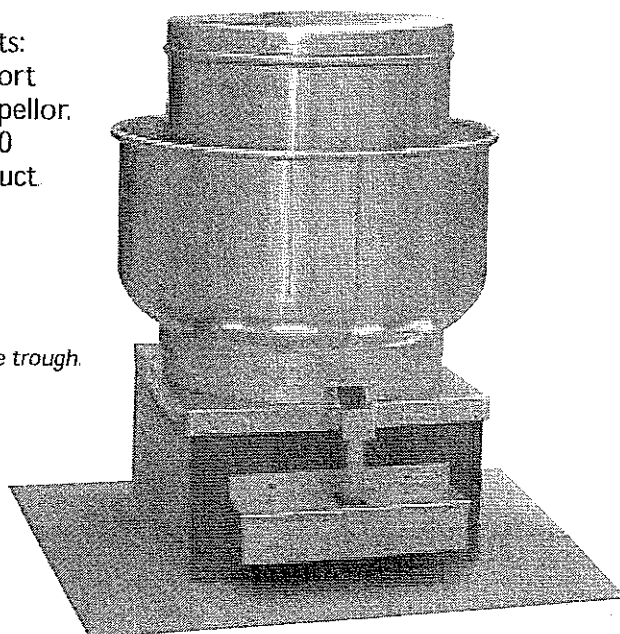
The Centrifume is also suitable for many other air extract systems providing a wide range of volume and pressure options plus low speeds for super-quiet requirements.

The Centrifume sets industry standards with superior design and engineering build quality.

Look at these Features:

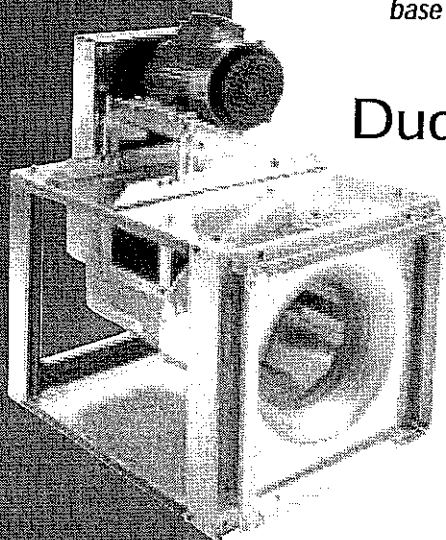
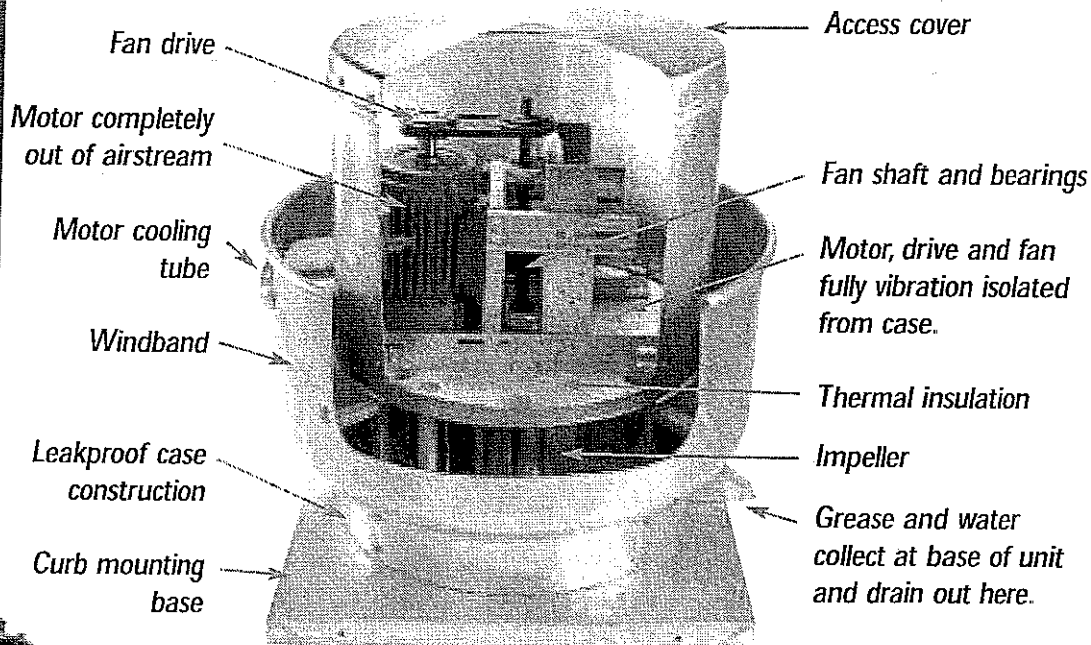
- Maximum continuous operating air temperature 190°C.
- The motor and drive completely out of the airstream, with motor cooling ducted from atmosphere.
- Two types of impeller are offered, Standard (STD) and High Pressure (HP) When making selection, check fan speed, motor power and noise levels for best selection.
- Very low noise levels achievable within occupied zone.
- The outlet velocities can be selected to ensure that contaminants are discharged well clear of surroundings.
- The cases are leakproof and heavily built of rolled aluminium. A bird screen is fitted within the windband. The cases can be supplied with powder coated finish if required, standard colour light grey to BS 00A05, other colours available.
- The motor and drive is easily accessible for maintenance via the removable cover.
- Grease, water and any other liquid effluent drain to the base of the roof unit for collection in the optional drain trough.
- All units have been tested to AMCA procedures, providing certified air performance and sound levels.
- Ancilliaries include profiled soaker sheet bases for the roof units and backdraught shutters for mounting in the duct before the unit.
- Also available on CFR roof units:
 - 75mm diameter clean out port on windband adjacent to impellor.
 - Hinge kit up to size CFR 240 to enable access to top of duct.

CFR unit with fitted grease trough.



Unit Components

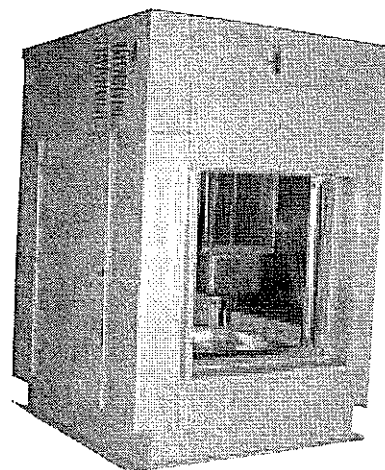
320120607P



Duct Mounting Unit

The CFD is a duct mounting unit with motor out of airstream. The backward curved impeller is mounted in a single skinned square housing. A grease collection tray can be fitted into the unit if required. The duct mounting case can be fitted with an external acoustic cladding to minimise noise breakout. Weatherproof housing with acoustic lining also available.

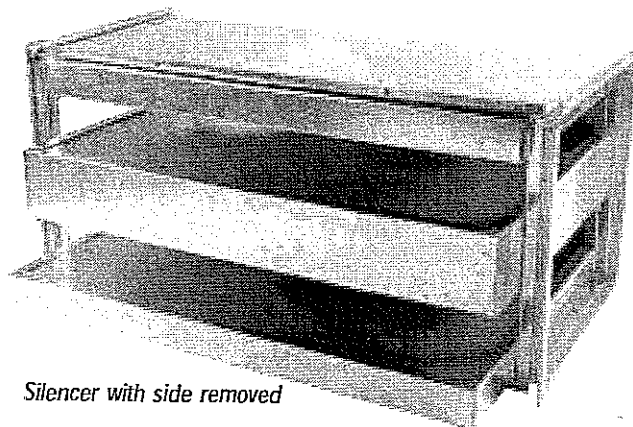
Go to pages 13-22 for details, dimensions, and selections.



Weatherproof housing

Silencers

- A range of unique cleanable silencers is available for all units. A removable side panel reveals the acoustic splitters which can be withdrawn for cleaning with steam or power washer. The splitters contain resin bonded mineral wool slab that has been heat shrink sealed into polythene enclosures, and fitted into modules of perforated galvanised sheet steel. These are completely waterproof.
- The silencers have been designed for duct mounting in horizontal or vertical mode and the removable access panel can be positioned on side, top or bottom as required.
- Silencers are also available in non-cleanable construction for uncontaminated extract systems. Selection details on page 23.



Silencer with side removed

Technical Details

0.18kw and 0.25kw motors are supplied single phase as standard, and up to 1.5kw motors are also available in 230 volt single phase. In 415 volt three phase both single and two speed motors are available. All units can be supplied with an inverter for fan speed control. For details of motors, inverter control, isolators and starters see page 24. Run and standby motors can be supplied in the larger case sizes. The CFR roof unit motor is prewired to a fitted local isolator.

The fan has an aluminium backward curved non-overloading centrifugal impeller. The drive shaft bearings have a life expectancy in excess of 100,000 hours, and on the CFR roof units, the drive assembly is fully vibration isolated from the case.

The impeller is spark proof and a flameproof motor can be supplied.

The single figure noise levels SPL dBA are the sound pressure levels at 3.0 metres from the unit.

To select the unit you require:

The fan performance data for the CFR roof units are detailed on pages 4 to 11.

The duct mounted units model CFD have fan performance selections on pages 14 to 17.

When selecting a unit compare noise levels for different sizes and speeds if sound level is an important consideration.

The sound spectrum stated is for a selection at the mid-duty point of the fan curve, the sound level at your actual duty point will be advised on your quotation or on request.

Specify the unit details:

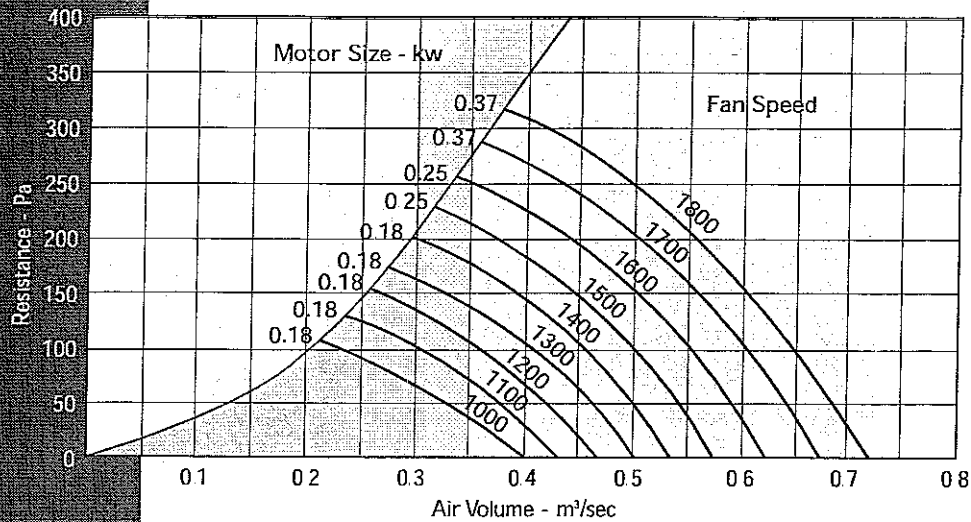
Model	CFR	140	-	HP	/	1500	RPM	/	3	Phase.
	Roof or Duct Unit	Size		Standard or High Pressure Unit			Fan Speed			Motor Voltage

And note any other requirements-

- Fitted isolator.
- Drain trough for grease collection.
- Two speed motor.
- Fan Speed control with inverter.
- Powder coated case finish.
- Duct mounting backdraught shutters.
- Soaker sheet base - state roof profile, and angle of roof.
- Silencer to suit.

320120607P

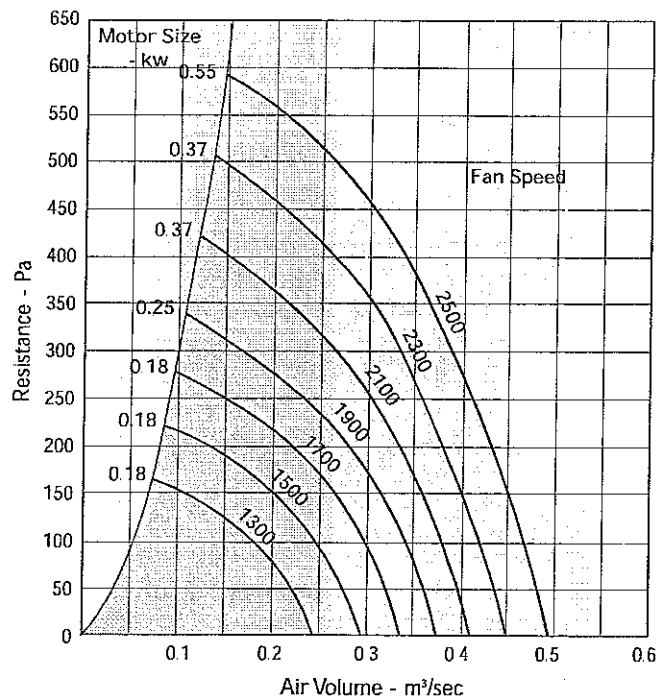
CFR 100 - STD



Unit
Dimensions
Page 12

Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
100 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
1000	67	66	66	57	51	49	44	37	44
1100	65	69	68	59	54	52	47	41	46
1200	66	70	70	61	57	55	50	44	48
1300	66	69	71	62	57	56	51	45	49
1400	69	70	74	64	60	59	54	48	51
1500	73	71	77	67	62	63	57	51	54
1600	74	72	77	68	62	63	58	52	55
1700	73	73	78	71	64	65	59	53	56
1800	71	74	77	72	64	65	60	54	56

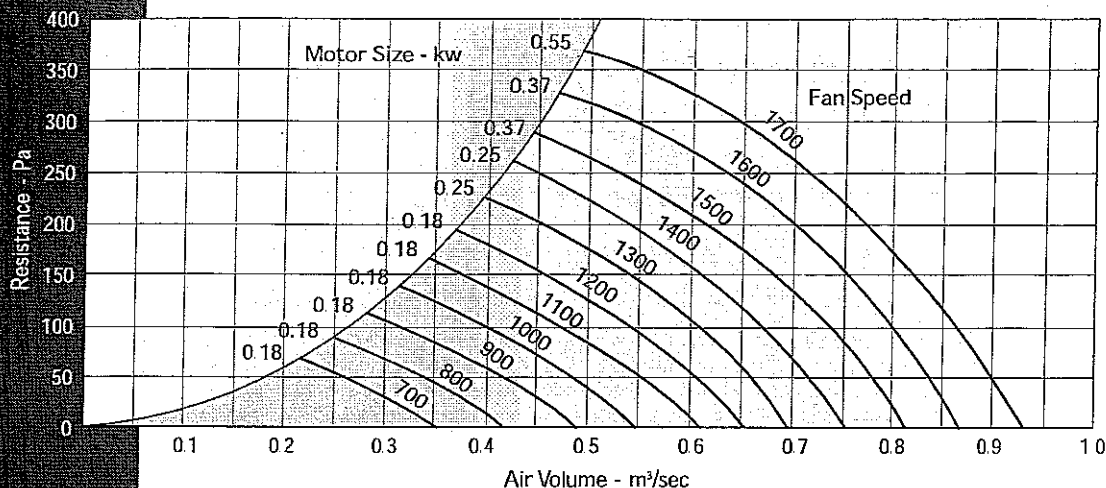
CFR 100 - HP



MAKE SELECTION

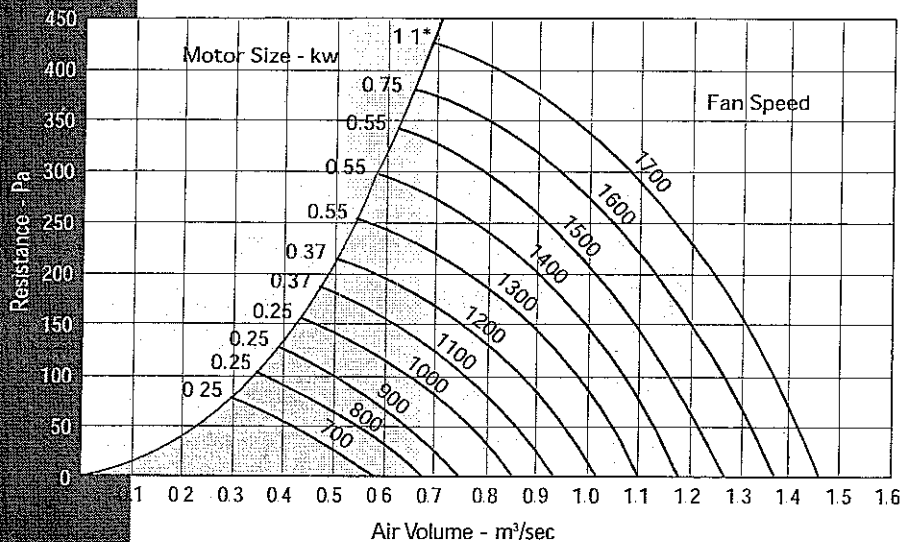
Model 100 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
1300	79	72	61	52	57	52	44	40	45
1500	79	73	66	62	61	58	53	50	50
1700	80	76	69	66	64	60	55	51	52
1900	83	79	71	71	68	62	58	55	56
2100	81	80	72	73	69	63	59	56	57
2300	79	80	71	73	69	65	61	59	59
2500	79	78	71	75	70	68	63	63	59

CFR 120 - STD



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
120 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
700	71	66	62	53	51	51	39	36	42
800	71	67	65	55	53	53	42	37	44
900	70	68	67	57	54	55	44	39	46
1000	70	70	69	59	56	57	46	40	48
1100	70	71	71	61	58	59	49	41	50
1200	73	74	75	64	60	61	52	44	53
1300	75	76	79	66	62	63	54	46	56
1400	76	78	82	68	64	65	56	48	58
1500	78	79	84	70	65	66	58	50	60
1600	80	80	86	72	67	67	61	53	63
1700	81	81	89	74	69	68	63	55	65

CFR 140 - STD



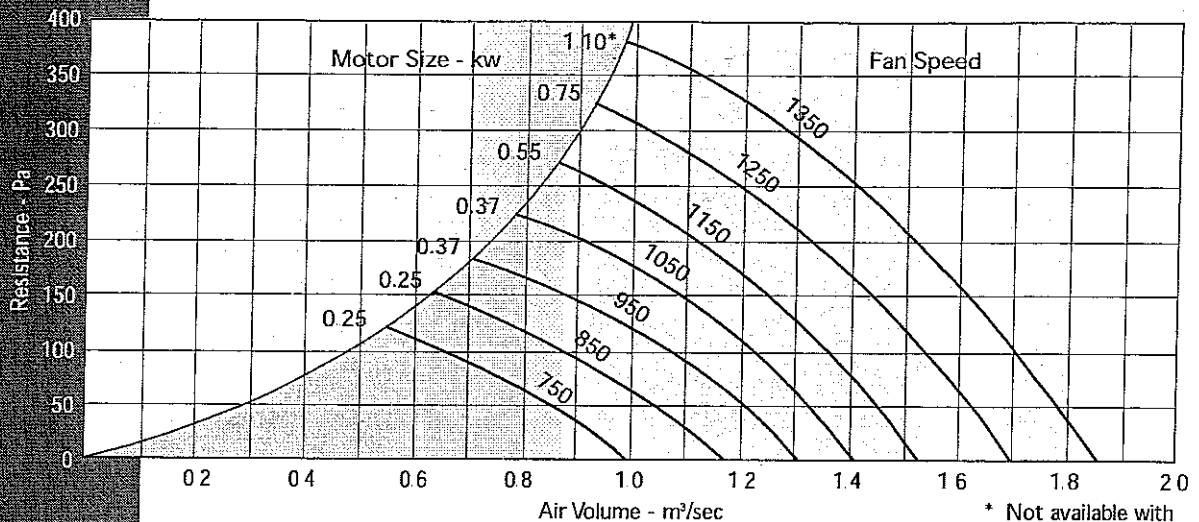
Model 140 - STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
700	69	71	59	54	59	46	39	30	44
800	68	74	62	57	60	50	42	35	47
900	68	76	65	60	61	54	46	40	48
1000	69	78	69	64	62	59	50	45	47
1100	69	80	73	67	62	63	54	49	54
1200	71	80	75	69	64	65	56	51	56
1300	72	80	78	71	65	68	59	53	58
1400	72	78	78	72	65	64	59	54	57
1500	72	75	80	75	67	59	61	56	59
1600	73	63	85	77	68	55	61	59	62
1700	73	64	85	79	69	50	63	60	63

Unit
Dimensions
Page 12

* Not available with
230 volt 1 phase
motor.

320120607P

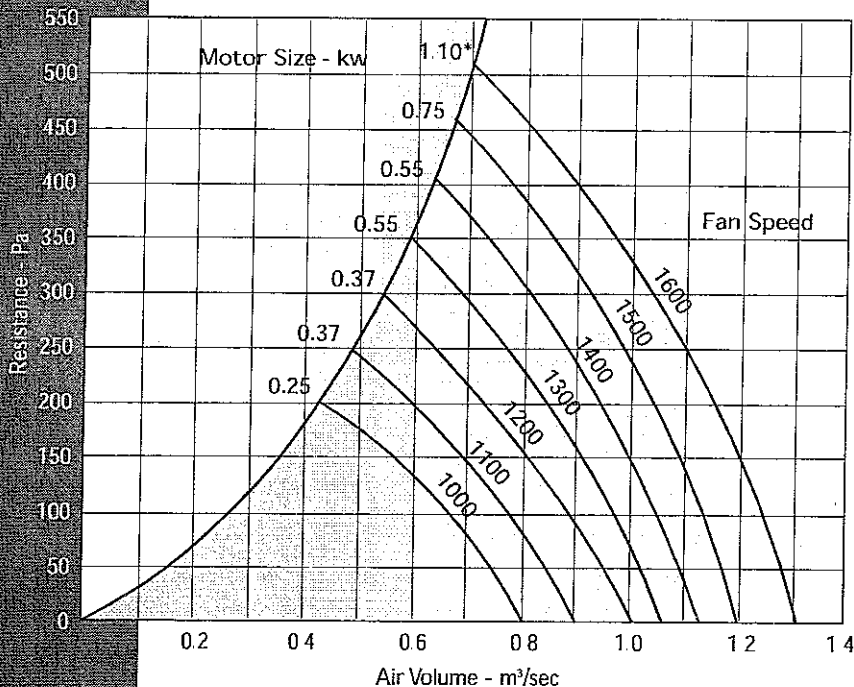
CFR 160 - STD



* Not available with
230 volt 1 phase motor.

Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
160 - STD	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
750	68	74	68	63	63	59	53	48	51
850	70	76	71	67	65	62	56	51	54
950	72	78	74	71	67	64	59	55	56
1050	73	79	76	73	68	66	61	57	58
1150	74	79	78	76	70	67	64	60	60
1250	75	80	80	78	72	69	66	63	62
1350	76	82	83	81	73	72	68	66	65

CFR 160 - HP

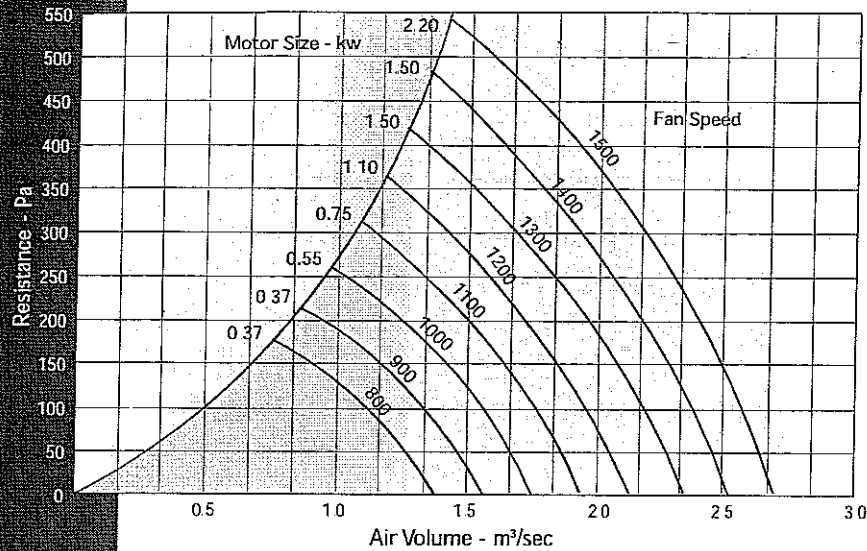


* Not available with
230 volt 1 phase
motor.

Model 160 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
1000	72	77	74	67	62	62	56	48	53
1100	72	80	77	70	64	64	60	53	56
1200	73	79	78	72	66	66	64	56	58
1300	74	74	77	73	68	67	66	59	59
1400	76	75	79	73	69	69	68	62	60
1500	77	76	81	73	69	70	69	63	61
1600	79	77	85	74	72	72	73	67	64

MAKE SELECTION

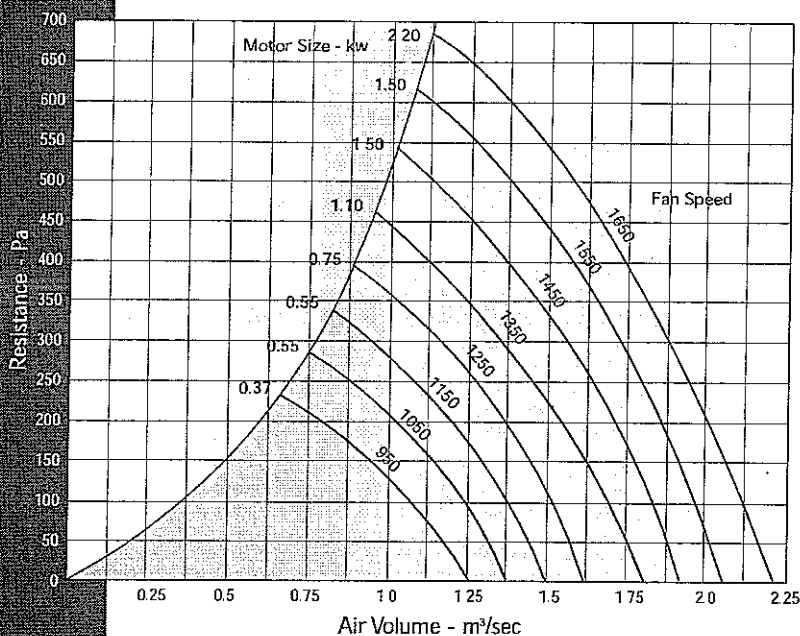
CFR 180 - STD



Unit
Dimensions
Page 12

Model 180 - STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
800	70	78	73	65	61	60	53	45	
900	72	80	78	69	64	64	57	51	
1000	75	79	82	74	67	71	62	54	
1100	76	80	84	75	68	71	64	56	
1200	78	80	85	75	69	69	65	57	
1300	78	81	86	77	72	70	66	61	
1400	80	83	89	79	74	73	68	65	
1500	81	84	91	81	77	75	70	69	

CFR 180 - HP

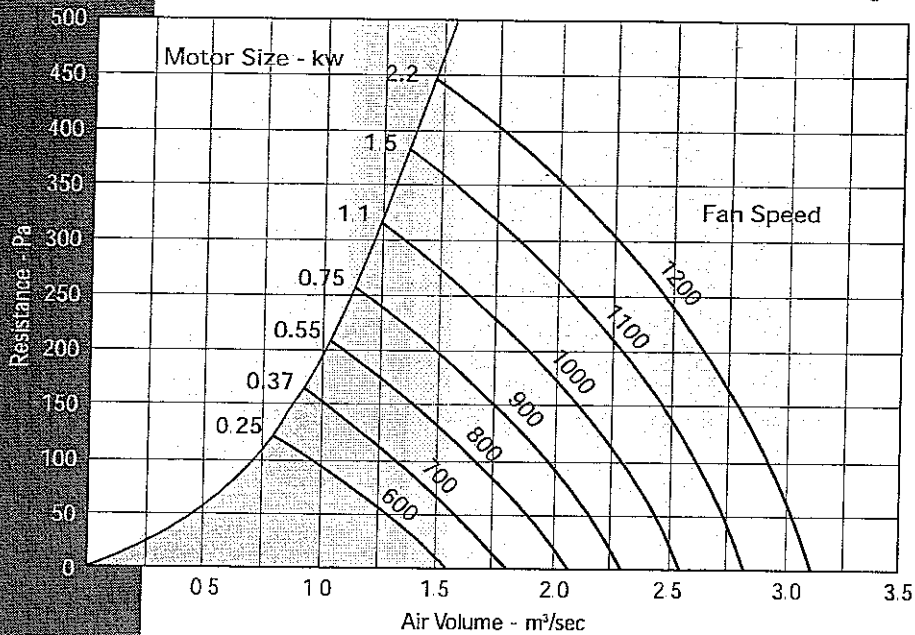


Model 180 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
950	81	78	77	70	61	60	55	51	
1050	84	78	79	74	65	63	59	54	
1150	82	77	81	74	68	66	61	56	
1250	78	76	83	72	69	68	63	58	
1350	79	78	86	75	72	71	67	61	
1450	81	80	88	79	75	74	70	64	
1550	84	80	88	82	75	74	71	65	
1650	88	81	88	85	75	74	72	67	

MAKE SELECTION

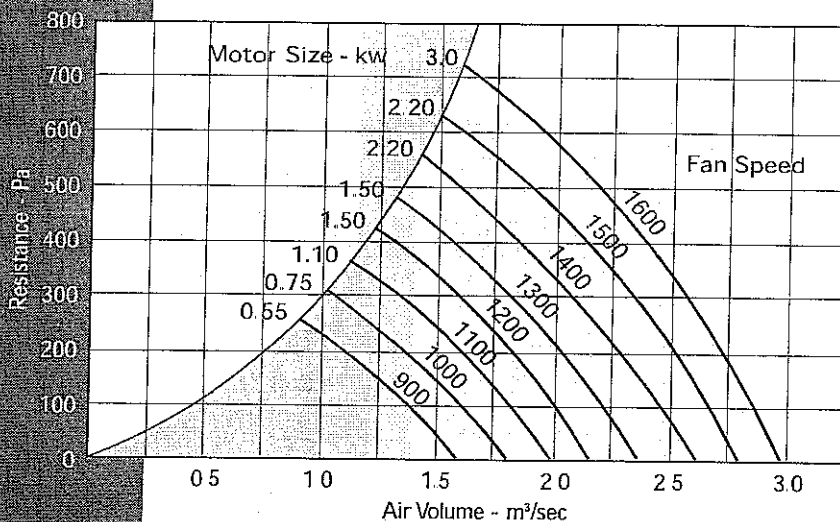
CFR 200 - STD

320120607P



Model 200 - STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
600	70	72	68	61	56	54	48	41	
700	72	76	73	66	59	59	53	46	
800	75	81	78	71	62	63	57	51	
900	78	83	80	72	65	65	60	54	
1000	77	82	85	76	68	68	64	58	
1100	78	82	89	79	71	71	67	62	
1200	87	83	88	79	73	73	69	64	

CFR 200 - HP

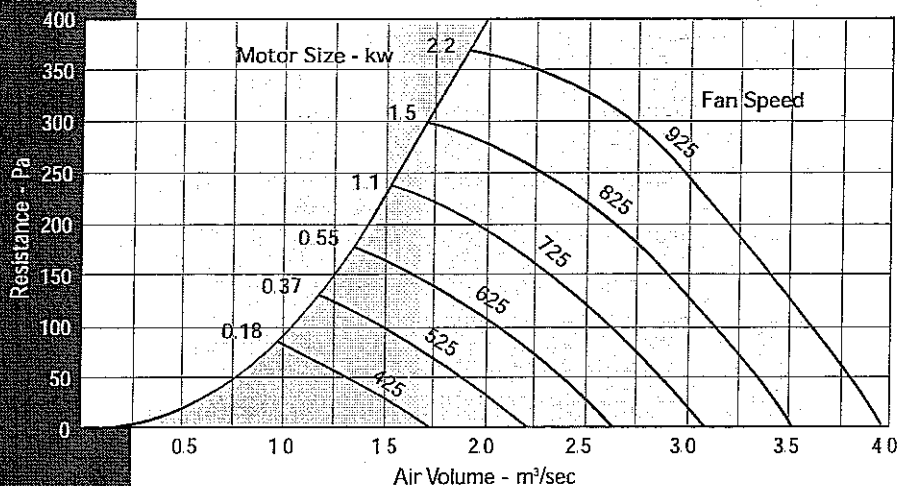


Model 200 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
900	73	76	75	71	63	62	58	52	55
1000	75	76	79	78	67	66	62	56	61
1100	77	77	82	80	71	69	65	59	63
1200	79	80	85	80	74	72	67	62	65
1300	81	82	87	79	77	74	70	65	66
1400	80	80	88	81	79	76	71	67	68
1500	80	79	89	83	81	78	73	69	69
1600	82	78	95	84	82	79	74	72	73

MAKE SELECTION

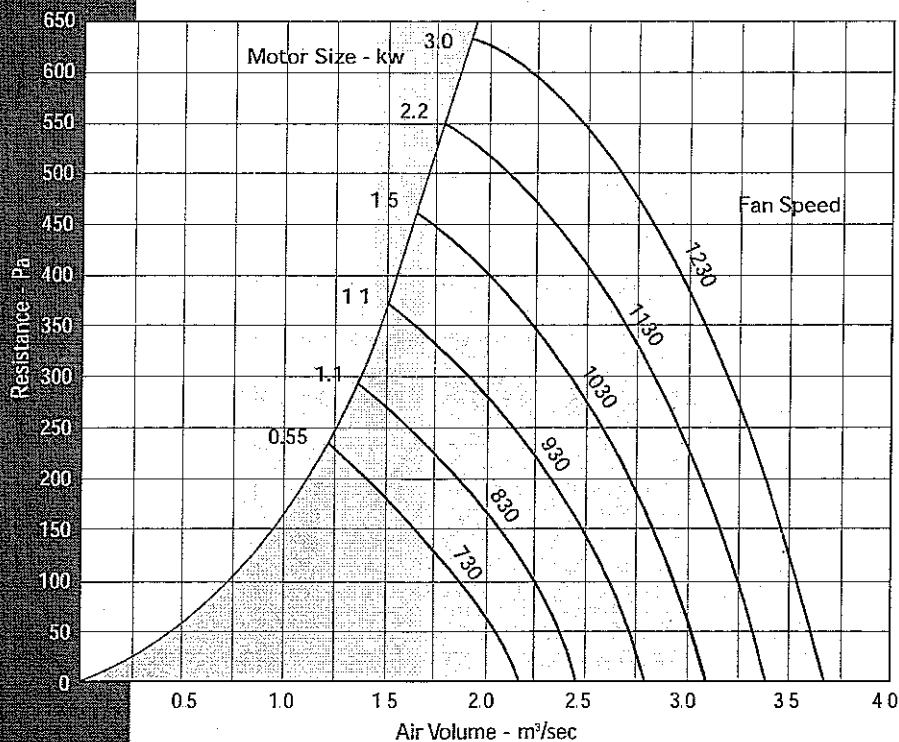
MAKE SELECTION

CFR 240 - STD



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
240 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
425	69	71	62	61	58	50	42	36	46
525	70	76	69	65	62	56	48	41	51
625	72	80	73	67	66	60	52	46	54
725	75	84	77	70	69	64	57	52	59
825	79	86	82	75	73	68	61	56	62
925	80	86	86	78	75	71	64	59	65

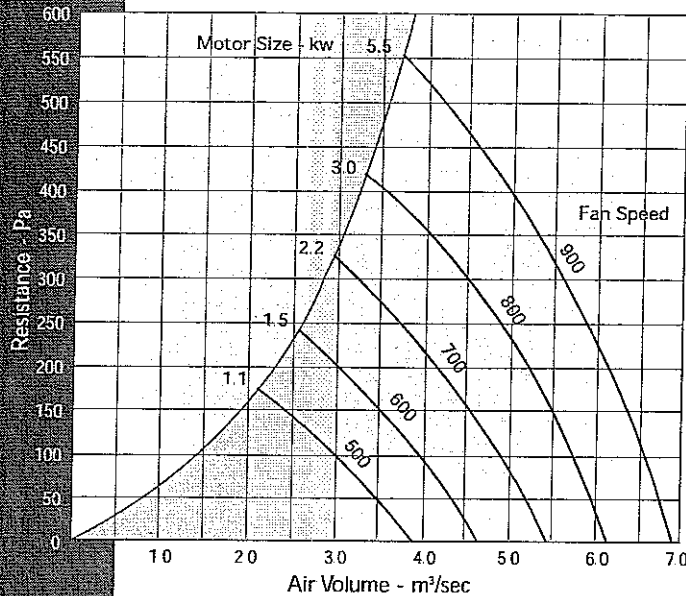
CFR 240 - HP



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
240 - HP	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
730	72	81	77	69	63	61	55	51	56
830	74	83	80	73	67	65	59	55	60
930	77	82	83	76	71	69	63	59	62
1030	79	82	86	79	74	72	67	63	65
1130	81	83	89	87	77	75	69	67	68
1230	80	81	91	82	76	75	69	68	69

MAKE SELECTION

CFR 300 - STD

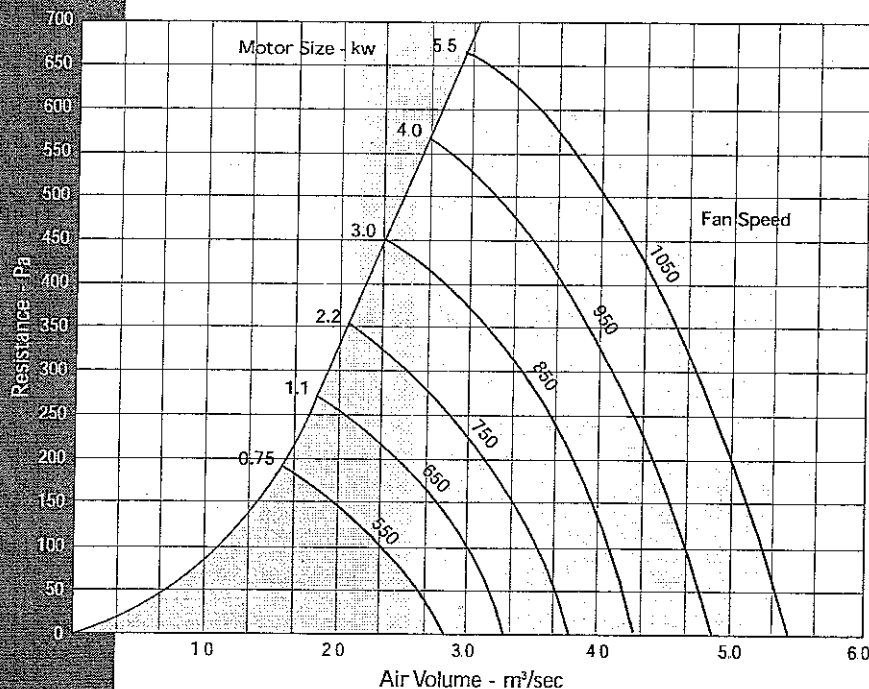


Unit
Dimensions
Page 12

MAKE SELECTION

Model 300 - STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
500	78	79	71	65	62	59	62	49	
600	77	84	79	72	70	66	59	54	
700	80	80	79	72	68	66	64	60	
800	82	82	83	76	71	70	68	64	
900	83	85	89	81	76	74	72	68	

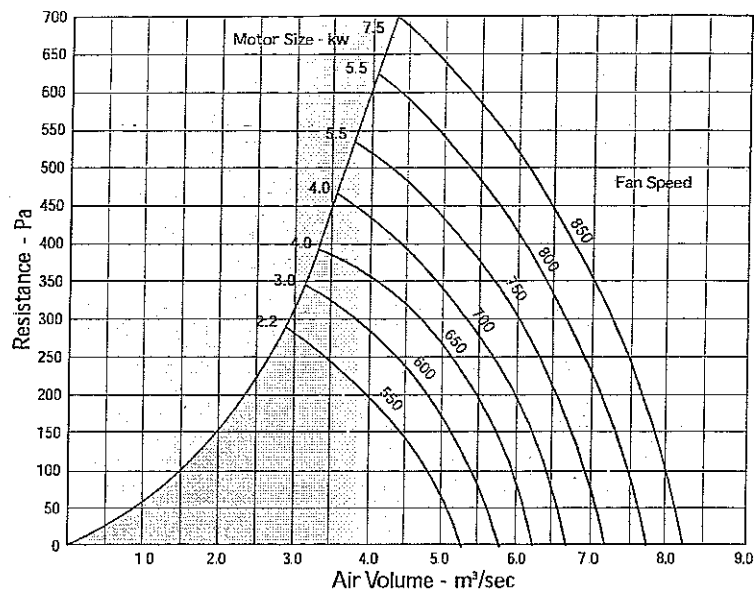
CFR 300 - HP



Model 300 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
550	74	77	74	68	64	65	60	51	55
650	76	82	78	73	67	67	64	56	60
750	78	84	82	77	71	70	68	60	63
850	82	86	86	82	77	76	73	66	67
950	85	87	90	86	80	79	77	70	71
1050	87	88	93	90	83	81	79	74	74

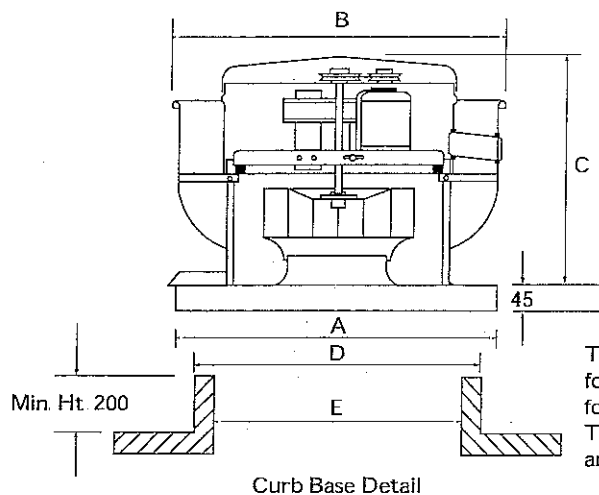
MAKE SELECTION

CFR 360 - HP



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
360 - HP	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
550	84	89	82	73	70	66	59	54	62
600	83	89	83	75	72	67	61	55	63
650	83	90	84	77	74	69	64	59	64
700	84	92	84	78	75	71	66	61	65
750	86	95	85	79	78	73	67	63	67
800	87	95	88	81	80	74	70	65	69
850	88	96	91	83	82	77	72	68	71

Model CFR - Roof Extract Unit - Dimensions



The CFR unit must be fitted onto a horizontal curb. If profiled soaker sheet base is required advise angle of roof so that transition can be supplied

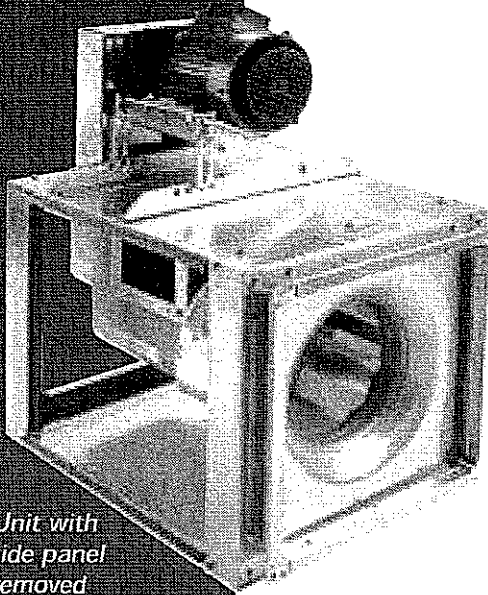
The dimension D stated for the curb upstand allows for roof covering and flashing. The curb height allows for water and grease collection vessel.

CFR Model	Dimensions - mm					Weight Kgs*
	A	B	C	D	E	
100-STD 100-HP 120-STD	483	630	762	445	345	26 30
140-STD 140-HP 160-STD 160-HP	558	730	800	520	420	38 39
180-STD 180-HP 200-STD 200-HP	760	900	815	720	570	57 64
240-STD 240-HP	860	1085	950	820	670	79
300-STD 300-HP	1010	1270	1016	970	820	142
360-HP	1168	1490	1095	1125	975	200

* Weight varies with motor size.

320120607P

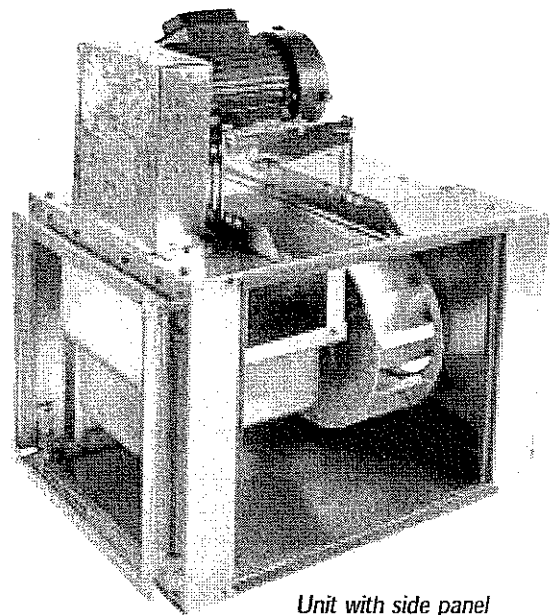
Duct Mounting Range - Model CFD



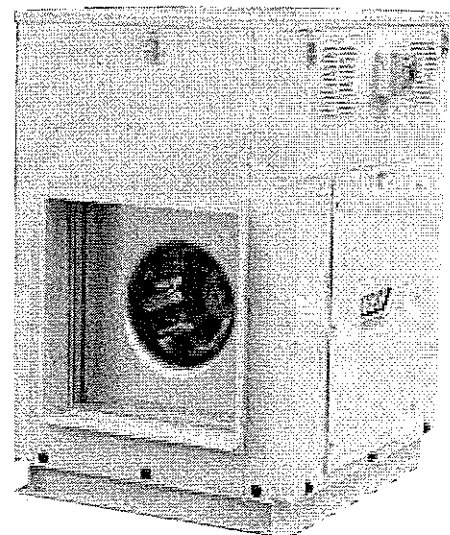
Unit with side panel removed

- For horizontal or vertical airflow, the unit case is flush panel single skinned with backward curved centrifugal non-overloading impeller, and motor and drive out of airstream.
- Because the motor is out of airstream the casing is very compact in size relation to the amount of air passed.
- When mounted horizontally the unit can be fitted with an integral grease collection tray and drain.
- The motor can be located on the top, side, or below the unit.
- Single or two speed motors can be fitted, and inverter fan speed control is available for most units.
- Run and standby motors can be fitted.

- The case is ruggedly constructed to maintain the alignment of the rotating parts. Easy access is provided for inspection and service and cleaning via removable side panels. The motor, drive, impeller, shaft and bearings can all be serviced without disturbing the duct mounting housing.
- The standard case construction is galvanised sheet steel. This can be powder coated if required. The case can also be fitted with an effective external acoustic cladding, comprising 25mm thick foam with sandwiched noise barrier layer and reinforced aluminium foil outer skin.
- A belt drive guard is fitted as standard.
- The drive shaft is ground and polished steel, mounted in heavy duty pillar block bearings.
- The unit is fitted with MEZ flanges for ductwork connection.
- Flexible connections, mounting feet and anti-vibration mounts are available.
- A weatherproof housing can be supplied, complete with acoustic lining, fitted silencers, outlet cowl and channel base. Standard colour light grey to BS00A05.
- Sound breakout noise levels are available for duct mounting and weatherproof units.

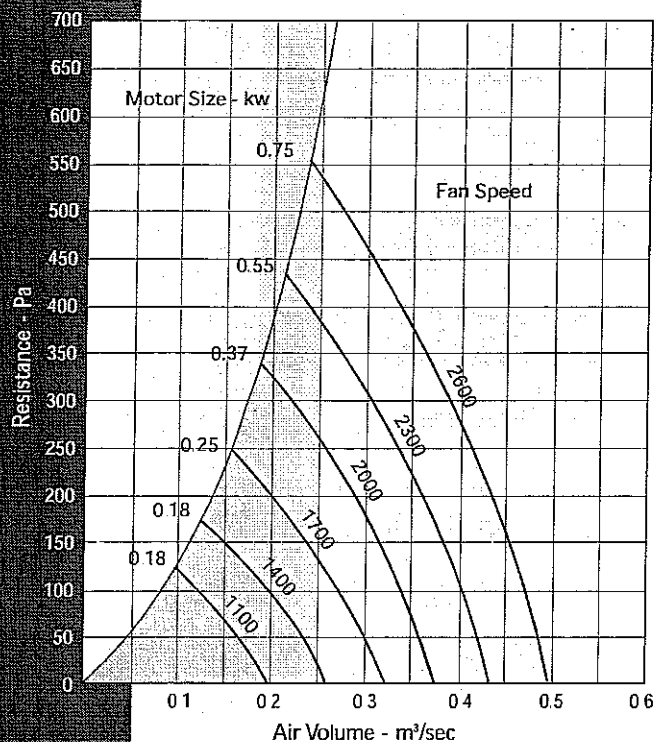


Unit with side panel removed showing impellor and drive guard



Unit in weatherproof housing.

CFD 80 - STD

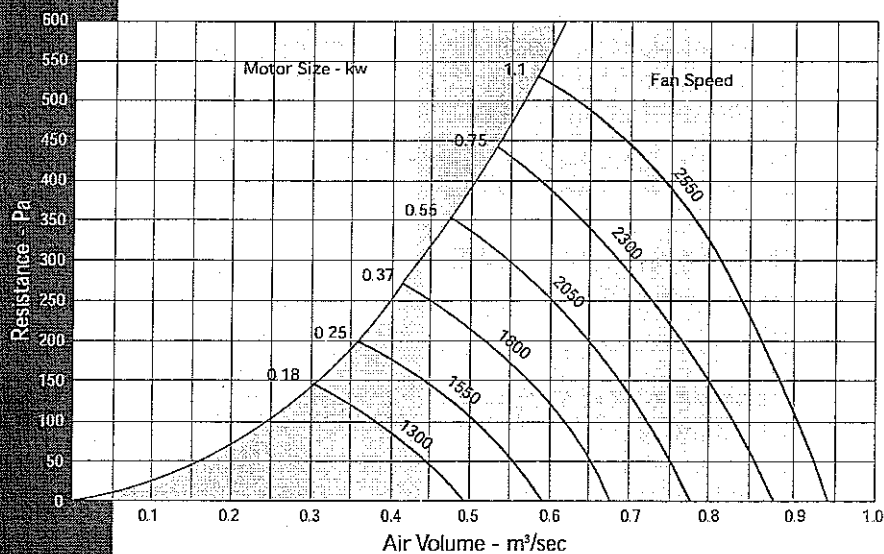


Unit
Dimensions
Page 21

MAKE SELECTION

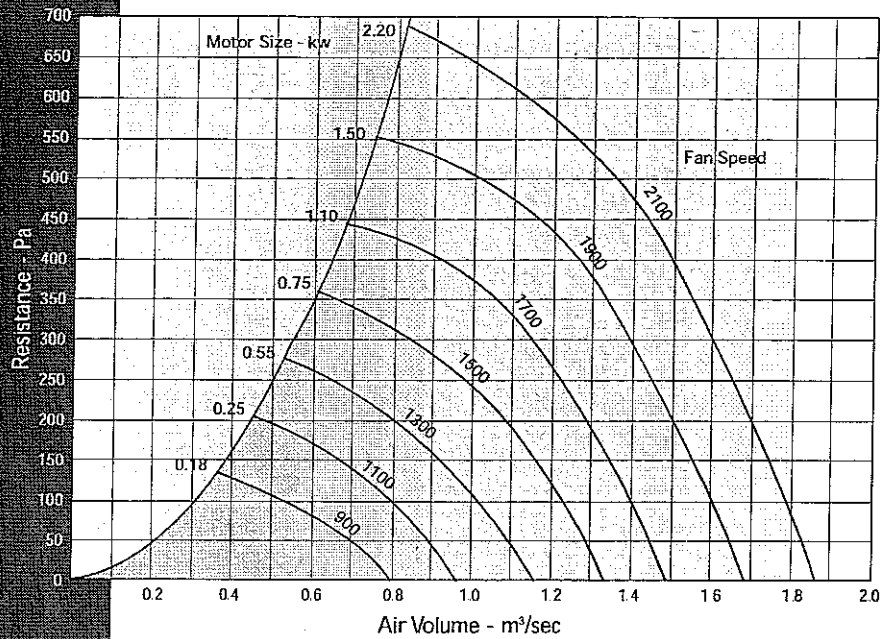
Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
80 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
1100	79	78	65	62	54	52	46	41	49
1400	79	81	72	70	60	57	55	49	54
1700	79	84	77	77	66	62	62	57	60
2000	80	85	78	83	72	66	66	65	65
2300	83	88	81	86	75	70	69	66	67
2600	87	91	84	89	78	73	72	68	70

CFD 100 - STD



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
100 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
1300	77	75	72	63	55	56	49	44	50
1550	78	83	76	74	63	60	59	52	57
1800	78	84	78	80	69	64	64	60	62
2050	79	86	81	83	74	68	68	68	66
2300	84	87	80	85	74	69	68	66	67
2550	86	89	83	88	76	72	70	68	69

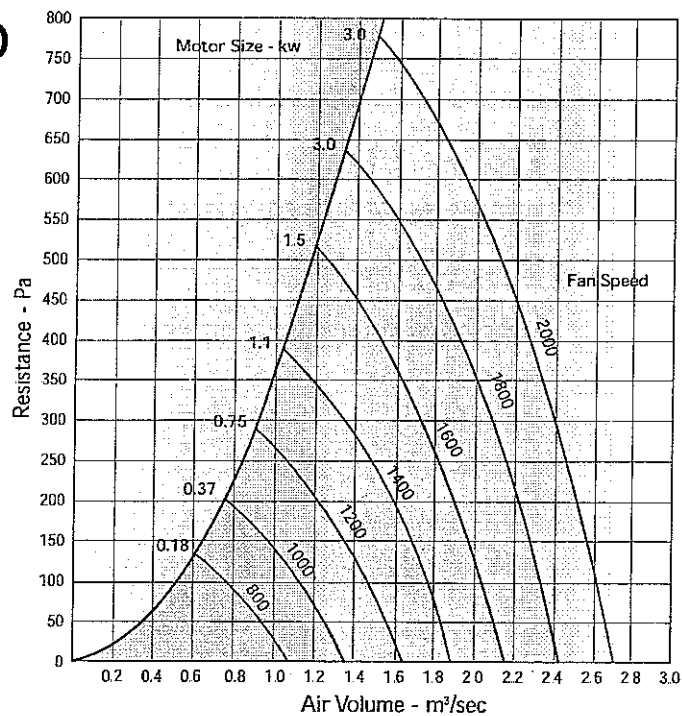
CFD 140 - STD



MAKE SELECTION

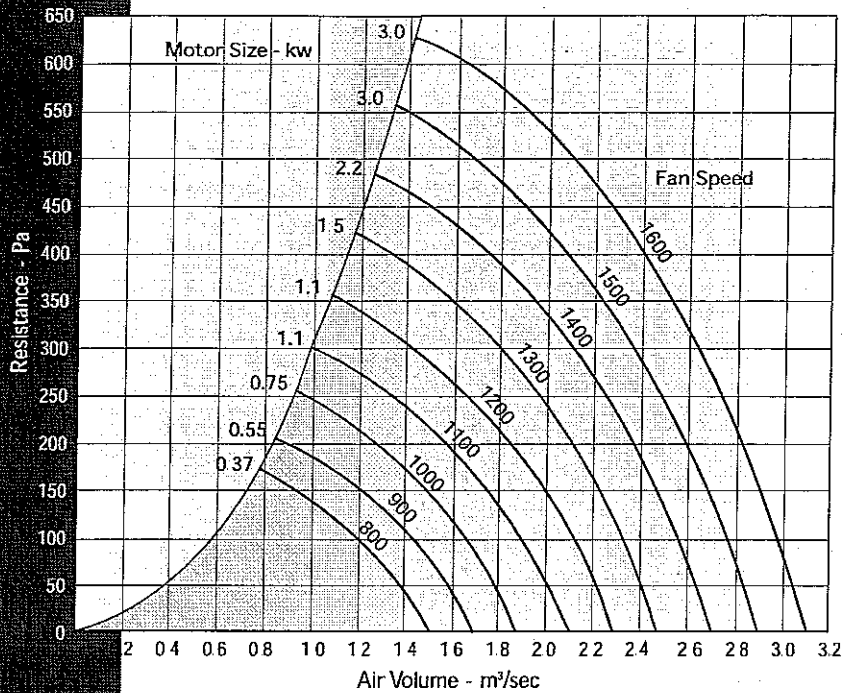
Model 140-STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
900	72	70	73	62	53	53	53	42	49
1100	77	76	76	68	55	55	55	48	53
1300	80	80	80	75	65	63	59	54	59
1500	78	80	82	77	69	67	63	58	61
1700	79	81	83	79	72	70	66	62	63
1900	83	82	83	84	76	72	69	65	67
2100	88	84	84	90	80	76	72	69	72

CFD 160 - STD



Model 160-STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
800	73	76	69	65	58	55	48	42	50
1000	75	76	74	71	62	60	55	51	55
1200	78	79	79	75	67	66	61	57	59
1400	80	82	84	79	71	70	66	61	63
1600	82	84	86	84	74	73	70	65	67
1800	85	86	89	89	77	76	73	69	71
2000	87	86	94	97	81	80	79	72	78

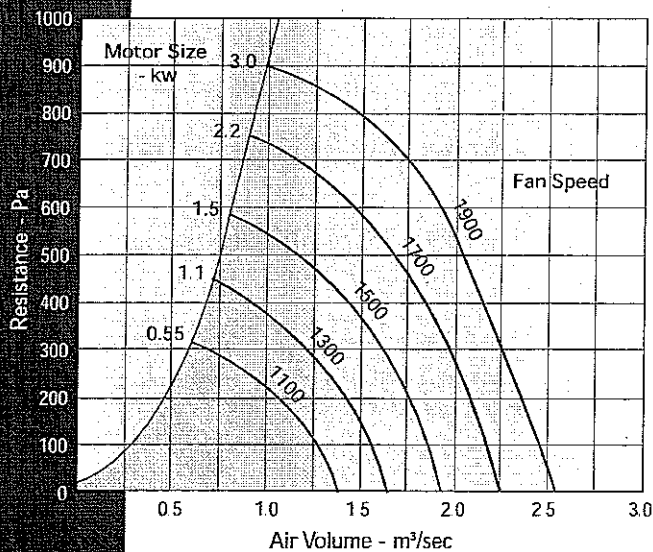
CFD 180 - STD



Unit
Dimensions
Page 21

Model 180-STD	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
800	76	78	77	70	62	57	52	48	55
900	76	78	78	72	63	60	55	51	57
1000	76	78	80	76	65	62	57	54	59
1100	78	79	82	77	67	65	60	57	61
1200	80	80	83	78	70	67	62	60	62
1300	83	81	84	79	72	70	65	63	63
1400	82	82	86	81	73	72	67	65	65
1500	83	83	88	83	76	74	69	67	67
1600	83	83	90	85	78	77	71	69	70

CFD 180 - HP



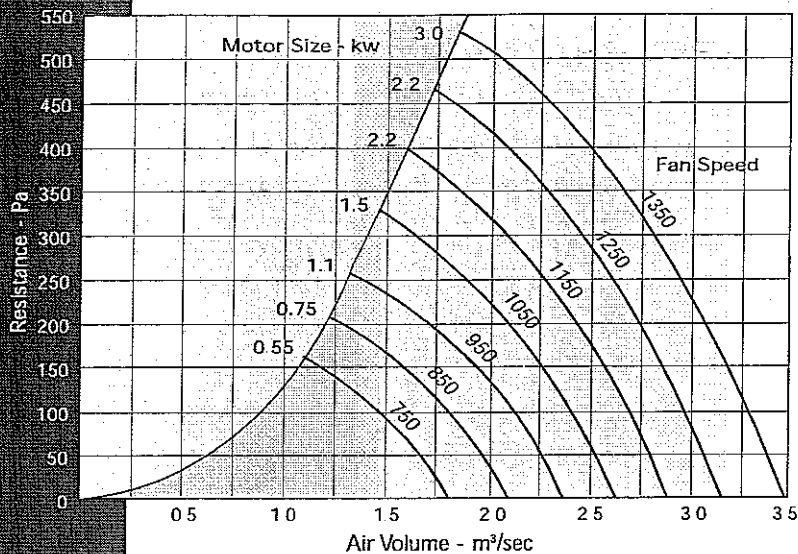
Model 180-HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m.
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
1100	80	78	75	70	65	60	55	52	
1300	82	80	78	74	69	65	61	57	
1500	84	81	81	78	73	69	66	62	
1700	84	83	84	85	77	73	70	66	
1900	84	84	87	92	79	76	73	69	

MAKE SELECTION

CFD 200 - STD

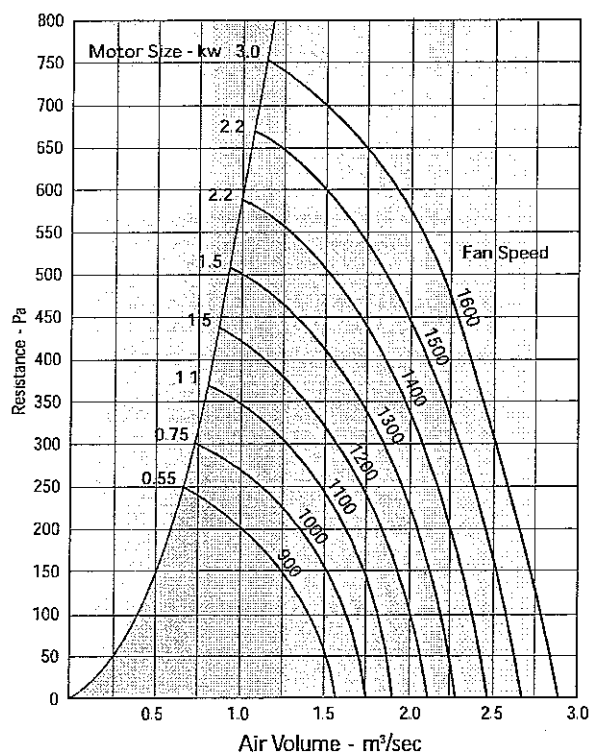
320120607P

Unit
Dimensions
Page 21



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
200-STD	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
750	80	81	75	73	64	60	56	49	57
850	81	82	78	75	67	63	59	52	59
950	84	82	81	77	69	66	61	56	61
1050	86	82	85	79	71	69	64	59	63
1150	88	83	87	80	73	70	66	62	66
1250	89	85	88	81	74	73	68	63	67
1350	90	88	90	83	77	75	71	66	69

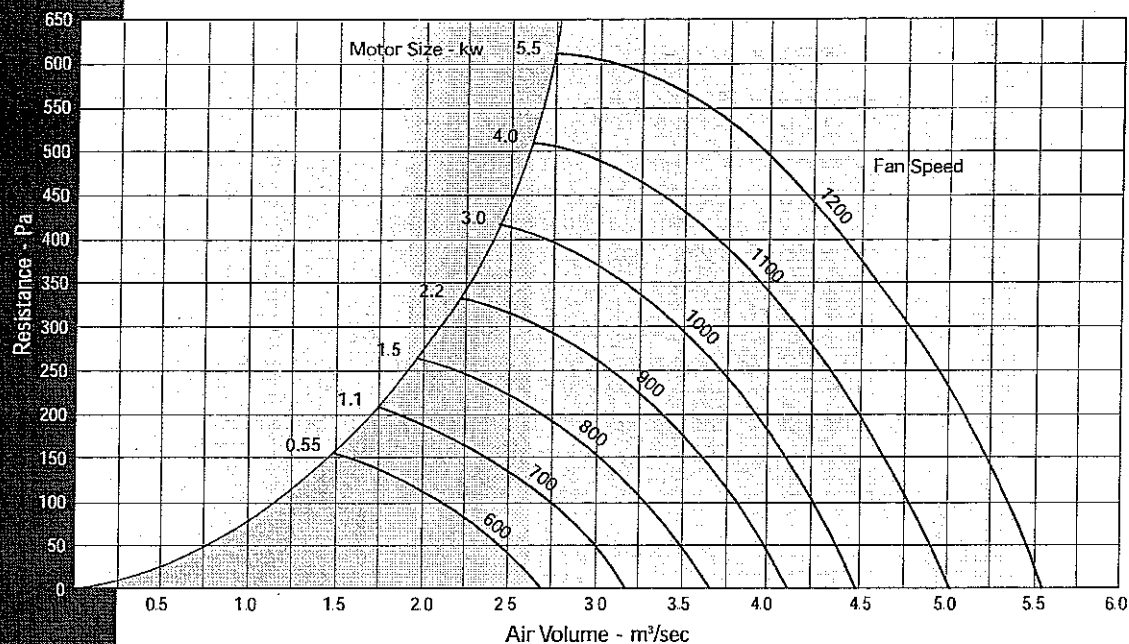
CFD 200 - HP



Model 200-HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
900	77	79	82	73	67	61	58	52	59
1000	76	79	85	77	69	65	62	56	62
1100	77	81	86	77	70	66	64	58	63
1200	81	82	86	79	72	70	66	61	64
1300	82	83	87	80	73	71	68	63	65
1400	86	85	89	84	77	75	73	67	68
1500	88	85	89	86	78	76	74	69	70
1600	87	85	88	88	79	77	73	69	71

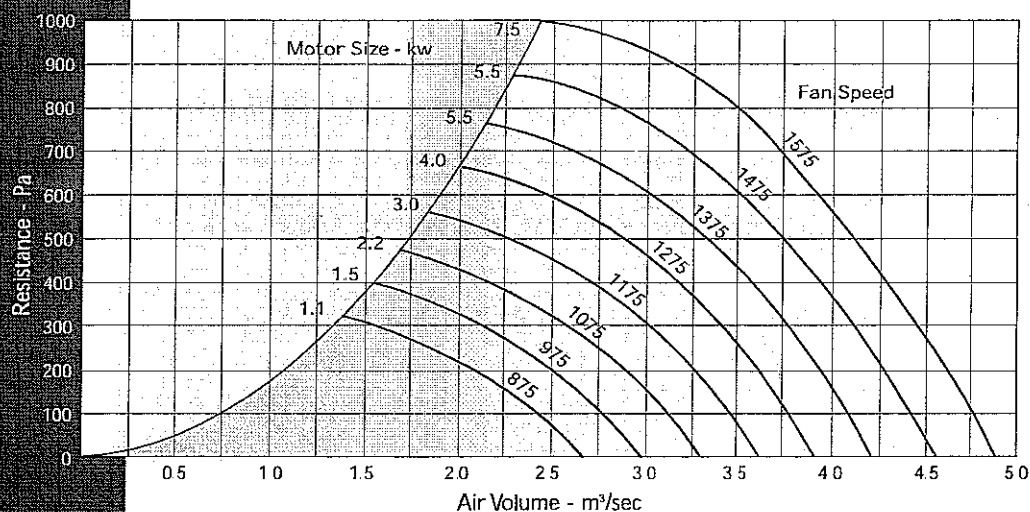
MAKE SELECTION

CFD 240 - STD



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
240 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
600	78	81	77	72	68	63	55	49	57
700	79	83	80	73	71	66	59	52	60
800	82	85	83	75	74	71	63	57	63
900	83	86	87	79	77	74	67	61	66
1000	84	86	89	81	79	75	69	63	68
1100	86	84	91	81	79	76	70	65	69
1200	87	87	95	85	81	81	75	69	73

CFD 240 - HP



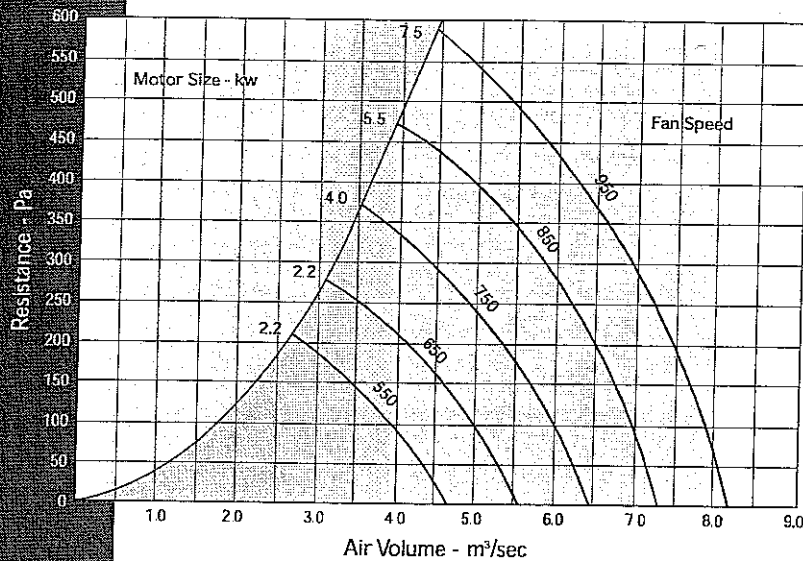
Model 240 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
875	83	83	81	77	71	67	64	58	61
975	84	84	83	78	74	70	67	62	64
1075	85	85	84	80	75	72	69	64	65
1175	85	85	86	81	77	75	72	67	67
1275	85	85	88	82	78	76	73	68	67
1375	85	85	90	83	79	77	73	69	69
1475	85	85	92	83	81	78	74	71	71
1575	85	85	94	84	82	78	75	72	72

MAKE SELECTION

CFD 300 - STD

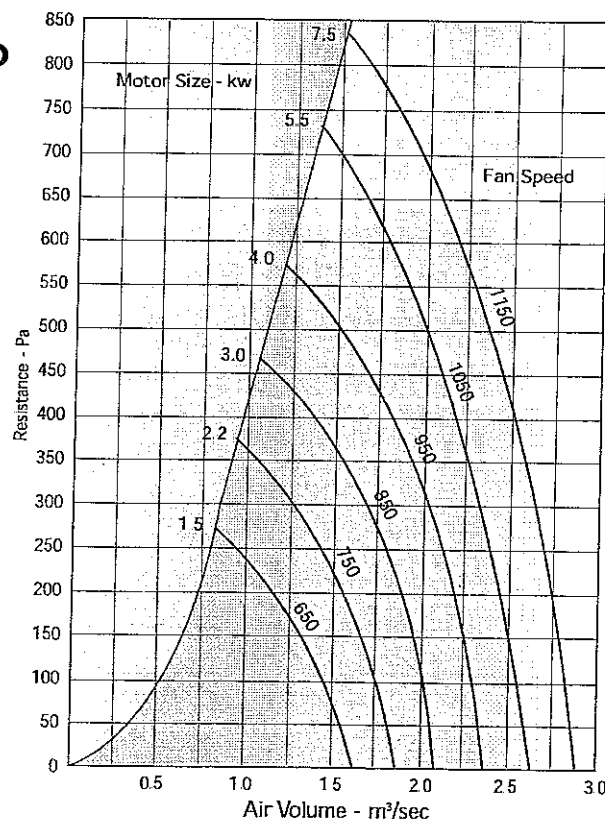
320120607P

Unit
Dimensions
Page 21



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
300 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
550	82	83	79	72	69	65	59	54	59
650	84	88	82	75	73	69	64	60	63
750	86	92	85	78	76	73	68	65	66
850	89	94	91	81	79	76	71	68	69
950	91	95	95	83	81	78	74	70	72

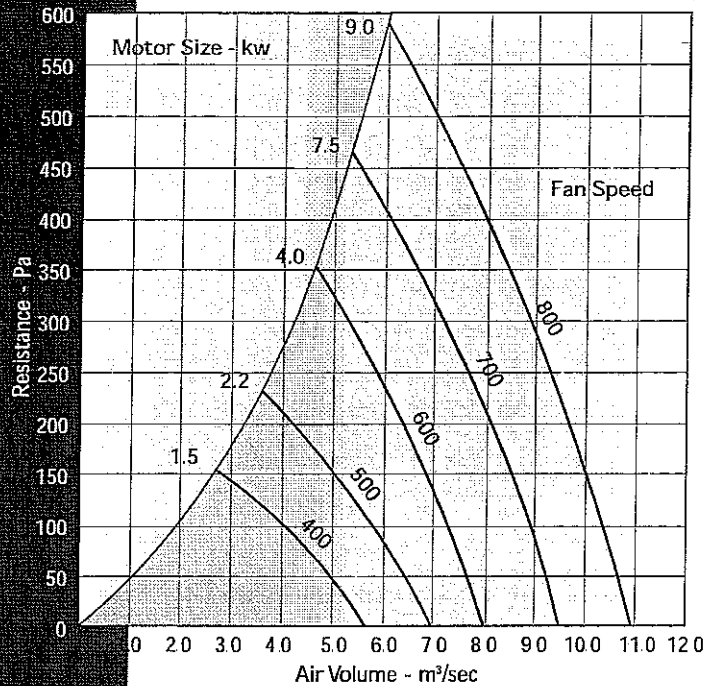
CFD 300 - HP



Model 300 - HP	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL dBA @3.0m
	Centre Frequency - Hz								
Fan Speed	63	125	250	500	1K	2K	4K	8K	
650	85	82	80	74	67	67	63	54	60
750	86	84	83	76	71	70	67	59	63
850	87	87	88	78	74	72	70	64	66
950	87	88	91	79	76	75	73	68	68
1050	88	87	91	81	79	77	75	71	69
1150	89	86	90	83	81	78	77	73	71

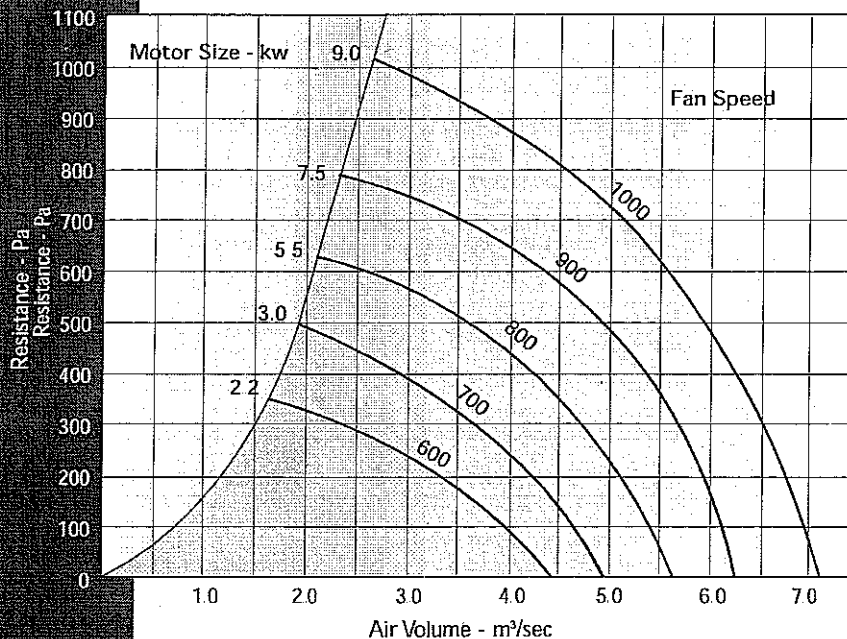
MAKE SELECTION

CFD 360 - STD



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
360 - STD	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
400	85	82	76	68	68	64	58	53	57
500	89	84	81	73	73	68	60	55	60
600	90	91	85	77	76	74	68	63	66
700	92	95	88	81	80	77	73	68	69
800	95	98	89	84	84	81	76	71	73

CFD 360 - HP



Model	Sound Power Level Spectrum dB re10 ⁻¹² w. PWL								SPL
360 - HP	Centre Frequency - Hz								dBA
Fan Speed	63	125	250	500	1K	2K	4K	8K	@3.0m
600	88	89	82	73	67	64	62	59	60
700	86	88	82	75	71	68	66	63	62
800	84	87	82	77	75	72	70	67	64
900	87	87	86	81	79	76	73	71	68
1000	91	87	91	84	81	78	75	73	71

MAKE SELECTION

CFD Dimensions

320120607P

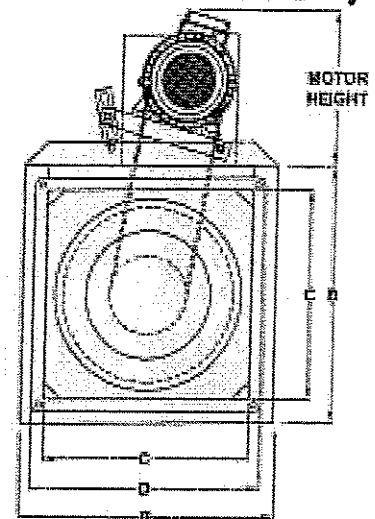
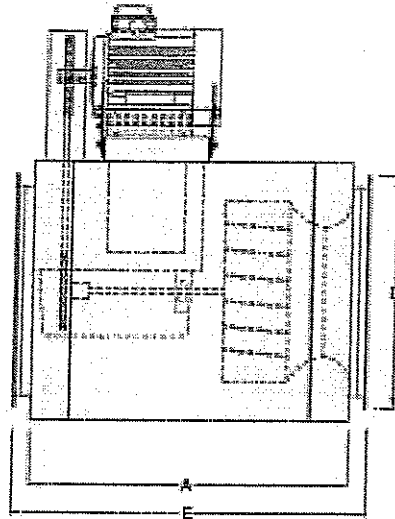
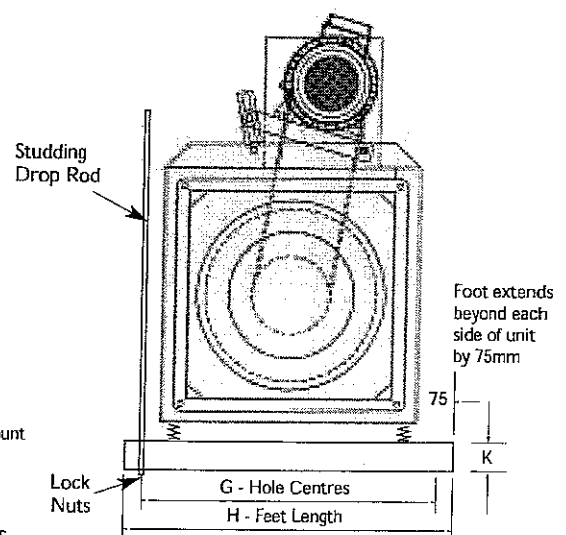
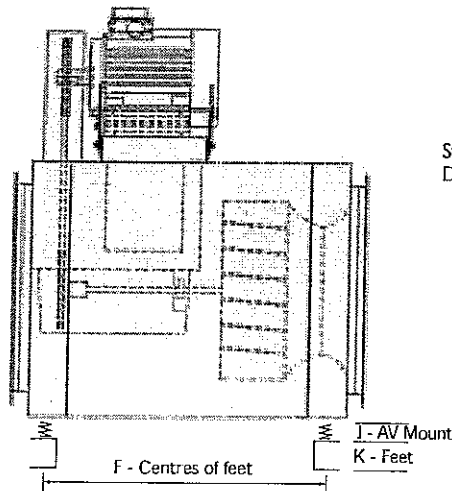
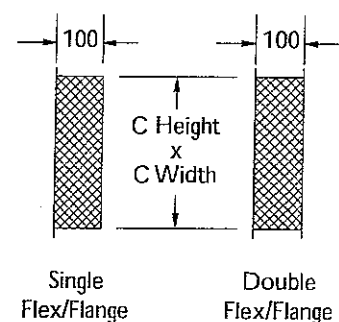


Illustration showing feet details:



Mounting feet can be used with drop rods or fastened down to base.

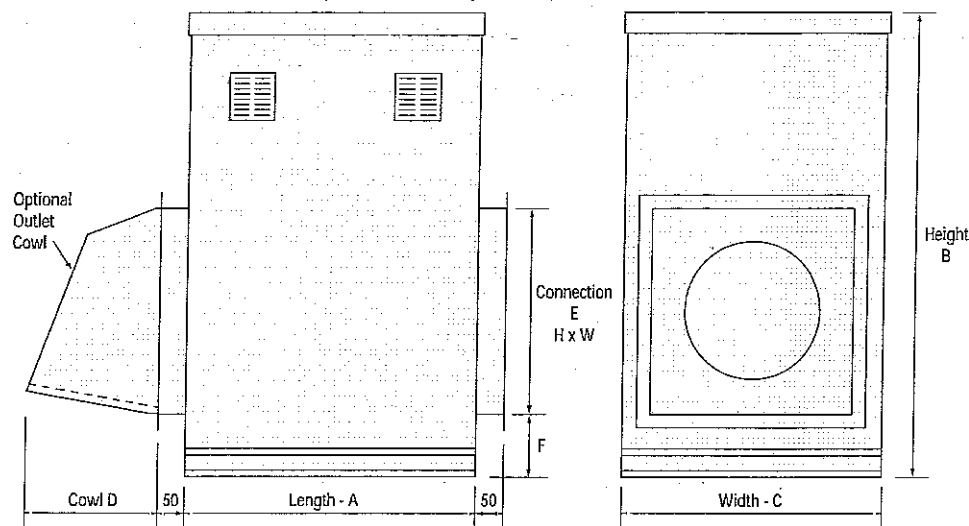
Motor Size kW	Max. Motor Height mm
0.18	310
0.25	320
0.55, 0.75 & 1.1	330
1.5 & 2.2	350
3.0 & 4.0	380
5.5	450
7.5	480
9.0	505



Model No.	Dimensions - mm										Weight* Kgs
	A	B	C	D	E	F	G	H	J	K	
CFD 80	533	381	283	323	593	503	451	531	25	40	34
CFD 100	533	432	334	374	593	503	502	582	25	40	38
CFD 140	556	582	505	545	616	526	652	732	25	40	63
CFD 160	660	660	581	621	720	630	730	810	25	40	73
CFD 180	711	711	607	647	795	681	781	861	25	40	86
CFD 180 HP	711	711	607	647	795	681	781	861	25	40	86
CFD 200	813	813	708	748	893	783	883	963	25	40	100
CFD 200 HP	813	813	708	748	893	783	883	963	25	40	100
CFD 240	875	991	886	946	955	834	1061	1141	25	40	145
CFD 240 HP	875	991	886	946	955	834	1061	1141	25	40	145
CFD 300	965	1168	1064	1124	1045	935	1238	1318	50	100	191
CFD 300 HP	965	1168	1064	1124	1045	935	1238	1318	50	100	191
CFD 360	1067	1320	1220	1257	1147	1037	1390	1470	50	100	273
CFD 360 HP	1067	1320	1220	1257	1147	1037	1390	1470	50	100	273

* Weight varies with motor size.

CFD in Weatherproof Housing



Model	Length A	Height B	Width C	Cowl D	Connection E	Spigot to Base F	*Case Weight Kgs
CFD 80	820	800	540	300	283	240	48
CFD 100	820	900	590	300	334	240	55
CFD 140	800	1100	750	350	505	230	71
CFD 160	900	1200	820	400	581	230	83
CFD 180+HP	980	1250	880	450	607	243	97
CFD 200+HP	1100	1350	1000	500	708	243	116
CFD 240+HP	1300	1680	1200	600	886	267	253
CFD 300+HP	1400	1950	1400	600	1064	352	290
CFD 360+HP	1500	2050	1550	600	1220	352	329

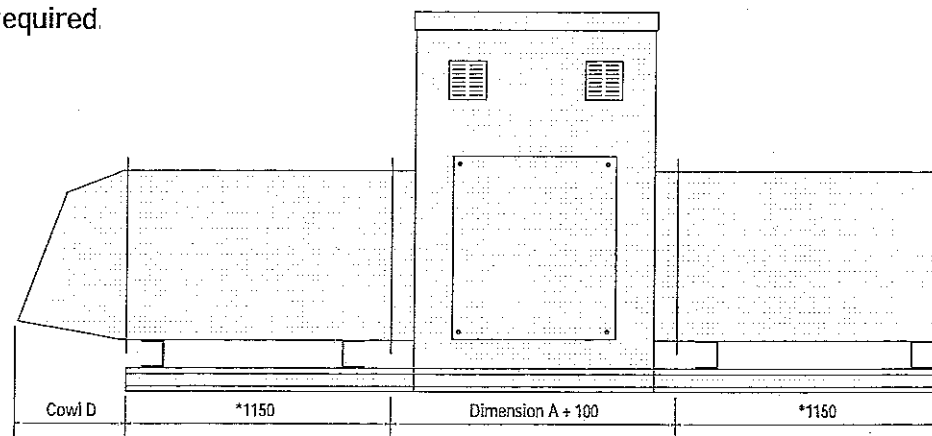
All dimensions in mm.

*Add case weight to unit weight page 21.

All weatherproof units are completely corrosion proof, the cases being manufactured from galvanised sheet steel, then polyester powder coated and baked at high temperature, providing an attractive and durable finish. The standard colour is light grey to BS 00A05. The case has an acoustic foam lining ensuring minimal noise breakout. The Centrifume unit is fully vibration isolated within the weatherproof case, including flexible connections and AV mounts. Access panels are provided to both sides, plus removable top, for internal cleaning and maintenance.

Fitted Silencers

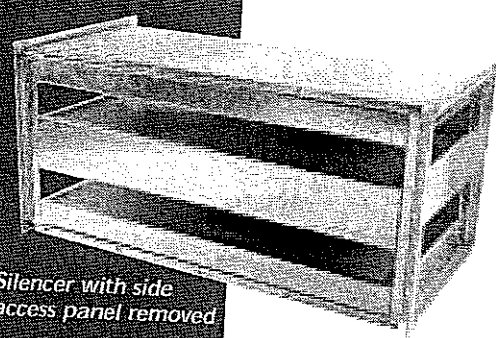
Available to both inlet and outlet with channel base and outlet cowl as required.



*Standard length of cleanable silencers.

320120607P

CFS Silencers



Silencer with side access panel removed

The CFS silencer range has the unique feature of a removable panel from which the acoustic splitters can be withdrawn for cleaning.

Due to the compact size of the CFD unit relative to the air volume, in some instances the silencer will not match the CFD case, and duct transitions will be necessary. For those silencers that do match the CFD unit, a 300mm long duct section is recommended between the silencer and unit.

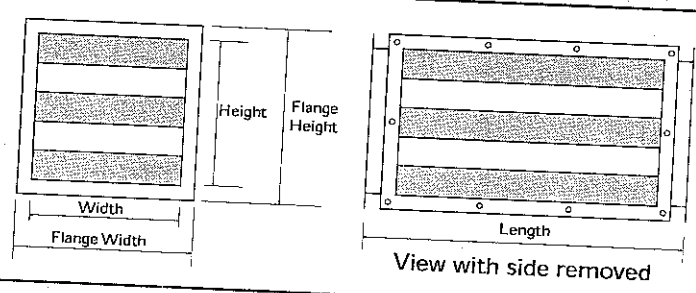
The CFS silencers can also be manufactured in non-cleanable construction for uncontaminated air, please specify model CFS/NC for this type.

The silencer case is galvanised sheet steel of lock formed construction, terminating in proprietary duct flanges.

Silencer Attenuation

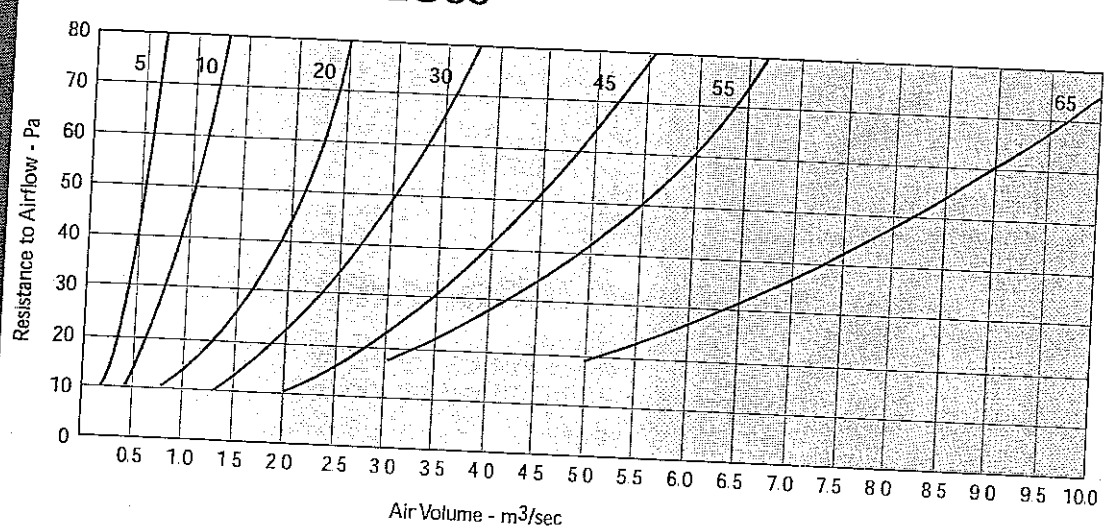
Silencer Model	Insertion Loss - dB							
	Centre Frequency - Hz							
	63	125	250	500	1K	2K	4K	8K
CFS 5	5	9	16	30	39	39	31	26
CFS 10	5	10	19	35	45	45	36	27
CFS 20	3	6	13	23	29	29	17	10
CFS 30	4	8	16	29	37	37	27	17
CFS 45	3	6	13	23	29	29	17	10
CFS 55	4	8	16	29	37	37	27	17
CFS 65	3	6	13	23	29	29	17	10

Silencer Dimensions



Silencer Model	Dimensions - mm					Weight kgs
	Width	Flange Width	Height	Flange Height	Length	
CFS 5	334	374	334	374	1150	25
CFS 10	505	545	505	545	1150	50
CFS 20	607	647	607	647	1150	60
CFS 30	825	885	825	885	1150	90
CFS 45	886	946	886	946	1150	98
CFS 55	1064	1124	1064	1124	1150	140
CFS 65	1220	1320	1220	1320	1150	171

Silencer Air Pressure Loss



Electrical Details

CFR roof units are normally fitted with a weatherproof isolator. This includes 1 phase and 3 phase single speed motors and all 3 phase two speed motors

Two Speed Controllers consist of an enclosure with high / low / off switch, delay timer, overloads, contactors, run and trip lights for each speed, door isolator, labelling

Motor kW	FLC's amps	Model
1.1 / 0.19	2.8 / 1.34	CFEL 3615
1.8 / 0.37	4.0 / 1.5	CFEL 6015
2.2 / 0.45	5.0 / 1.9	CFEL 6027
3.0 / 0.6	6.8 / 2.9	CFEL 8536
3.7 / 0.75	7.9 / 3.0	CFEL 8536
5.5 / 1.1	11.4 / 4.1	CFEL 1250
7.5 / 1.9	15.5 / 6.3	CFEL 1885
9.2 / 1.85	18.0 / 6.0	CFEL 1885

The enclosure size for all panels up to 5.5/1.1kw motor is 300mm wide x 400mm high x 150mm deep, and for 7.5/1.9kw and 9.2/1.85kw motors is 400mm wide x 500mm high x 150mm deep.

Three Phase Motor Speed Control using a matched three phase inverter.

Model Size	FLC amps	Inverter Model
0.37kW	1.18	IN3434 - 0037
0.55kW	1.50	IN3434 - 0055
0.75kW	2.00	IN3434 - 0075
1.1kW	2.60	IN3434 - 0110
1.5kW	3.90	IN3434 - 0150
2.2kW	5.80	IN3434 - 0220
3.0kW	7.10	IN3434 - 0300
4.0kW	8.50	IN3434 - 0400
5.5kW	12.00	IN3434 - 0550
7.5kW	16.50	IN3434 - 0750
9.0kW	18.30	IN3434 - 0900

Up to and including 2.2kw the standard inverter has an IP20 housing and accessible electrical connections. These are only suitable for mounting in a control panel or in the optional IP54 enclosure supplied by VES. Sizes 3.0kW to 9.0kW come with an IP54 enclosure as standard.

With each inverter a local fan speed controller with on/off switch is supplied, model CFSC1, and the inverter is programmed at VES to match the controller before despatched.

Single Phase Motor Speed Control is achieved by using a 240 volt single phase supply into the single phase inverter, which converts the supply to three phase to the motor. Therefore, select a standard three phase motor for the Centrifuge, but provide a single phase supply up to the inverter, and three phase wiring from the inverter to the motor.

Model Size	Rated Current	Inverter Model
(3 phase)	1 Phase	
0.18kW	1.4 amps	IN1234 - 0018
0.25kW	1.7 amps	IN1234 - 0025
0.37kW	2.2 amps	IN1234 - 0037
0.55kW	3.0 amps	IN1234 - 0055
0.75kW	4.3 amps	IN1234 - 0075
1.1kW	5.9 amps	IN1234 - 0110
1.5kW	7.0 amps	IN1234 - 0150
2.2kW	9.0 amps	IN1234 - 0220

The single phase inverters have an IP20 housing and accessible electrical connections. These are only suitable for mounting in a control panel or in the optional IP54 enclosure supplied by VES. With each inverter a local fan speed controller with on/off switch is

supplied, model CFSC1, and the inverter is programmed at VES to match the controller before despatch



We care about air

VES Andover Limited

Eagle Close, Chandlers Ford Industrial Estate,
Chandlers Ford, Eastleigh, Hampshire SO53 4NF

Tel: 08702-40-43-40

Fax: 08702-40-45-50

e-mail: vesltd@ves.co.uk

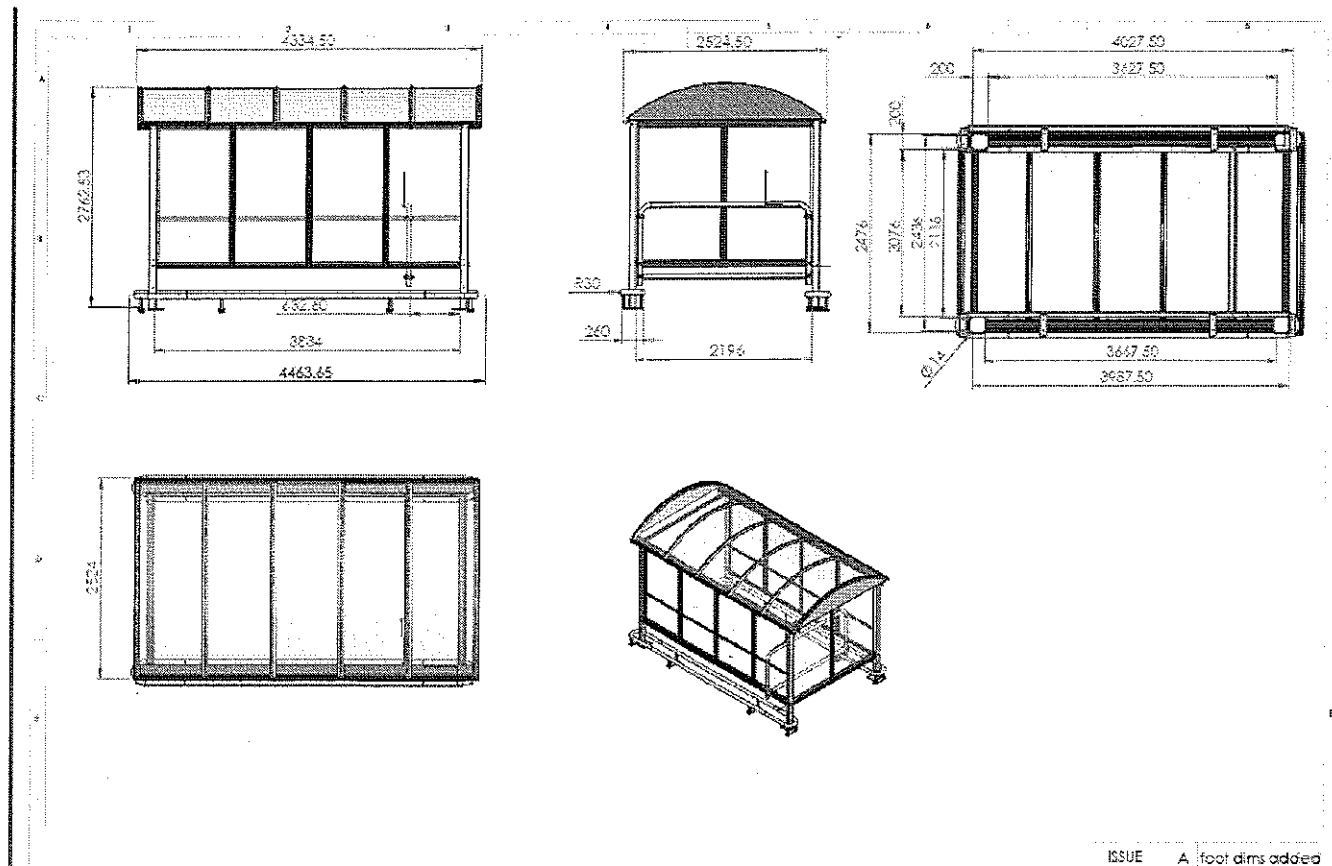
www.ves.co.uk



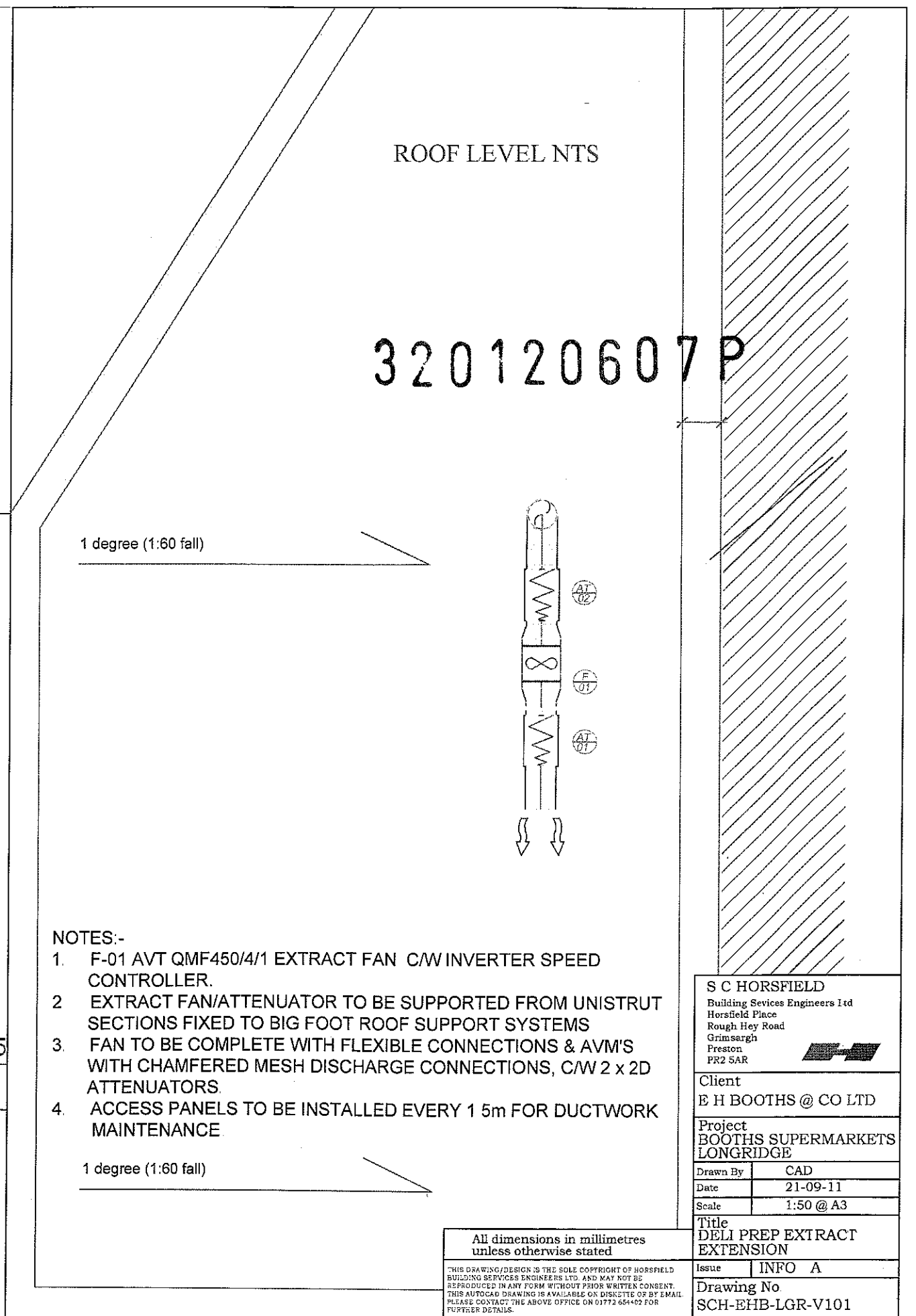
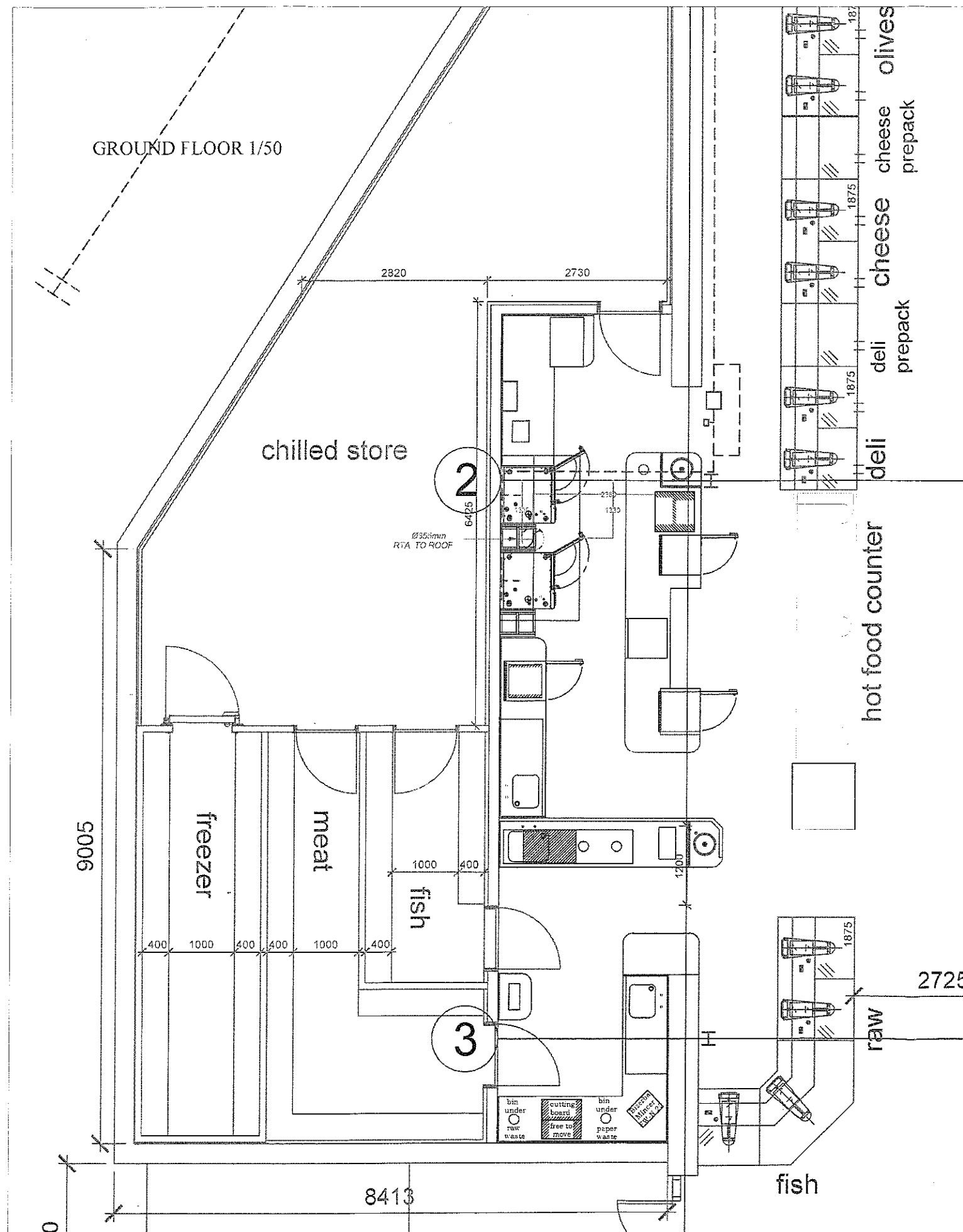
ISO 9001-2000
Cert No Q5375

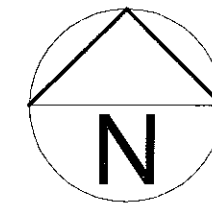
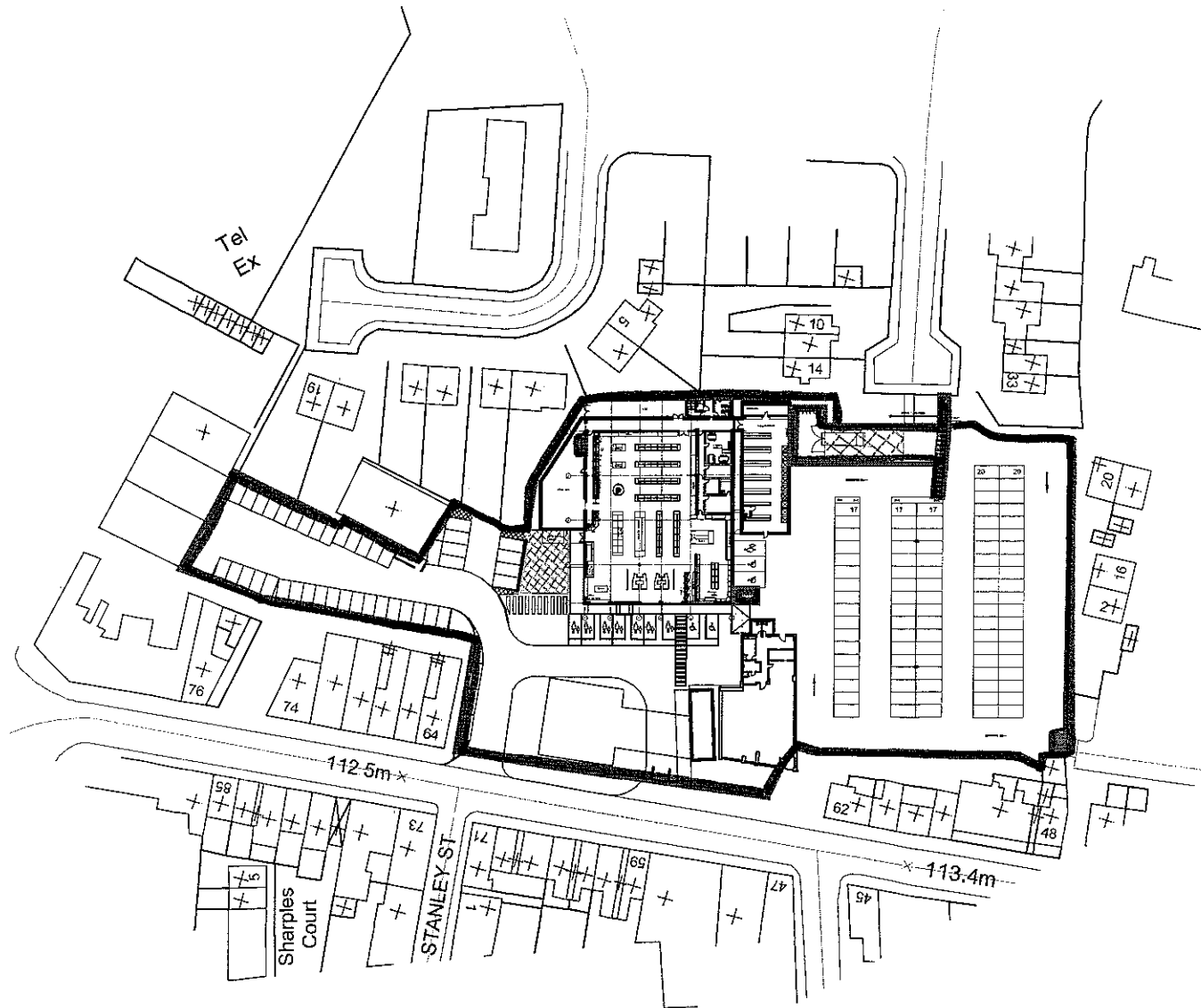
VES reserve the right to amend product specifications and details without notice.

Leaflet No. 787-5/02



320120607 P





0 10 20 30 40 50m



320120607P

no. by chk revision date

client:

BOOTHS

project
Extension to Booths Supermarket
Berry Lane
Longridge

by chk. date scale sheet size

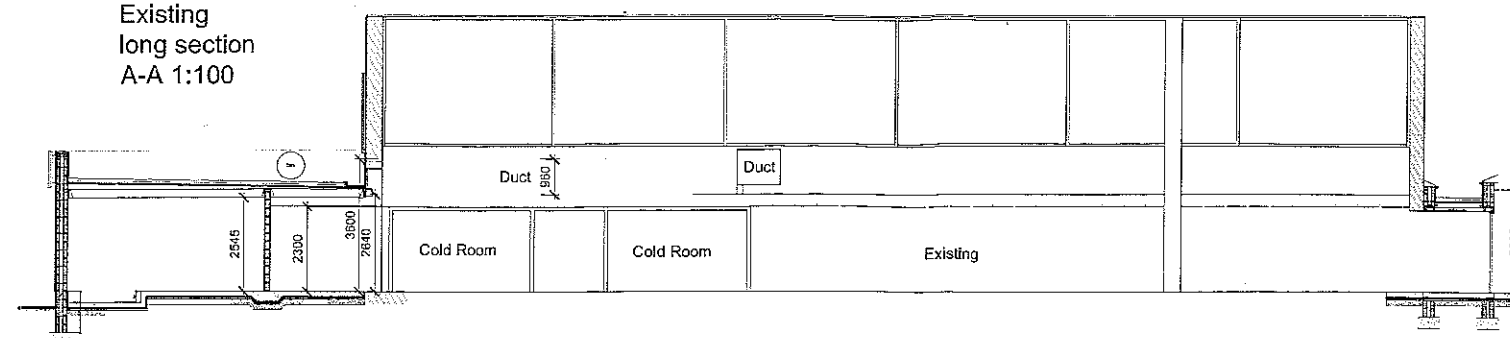
JRB DS 2012.01.10 1:1250 A3

site
Location plan

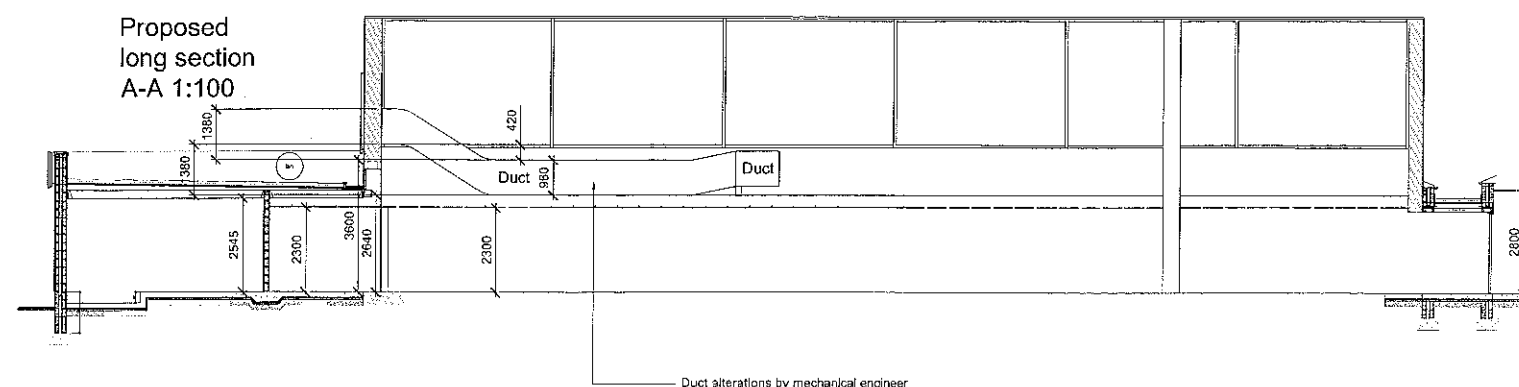
status job no./ org. no. revision

- 5432 L(00)05 -

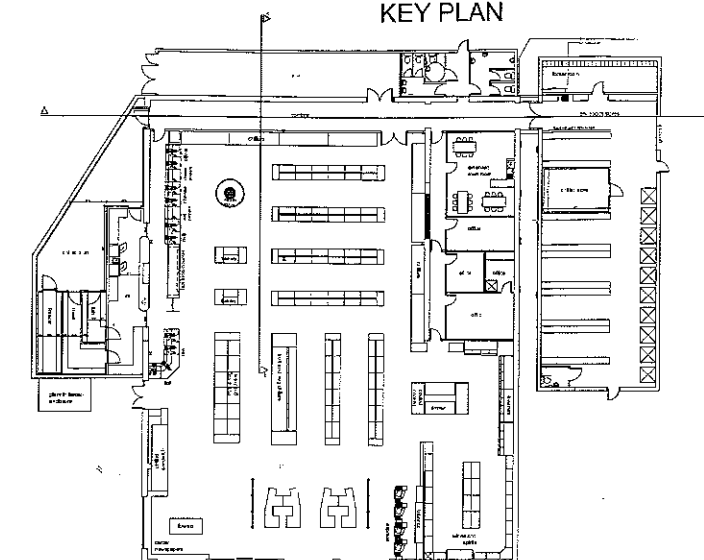
Existing
long section
A-A 1:100



Proposed
long section
A-A 1:100

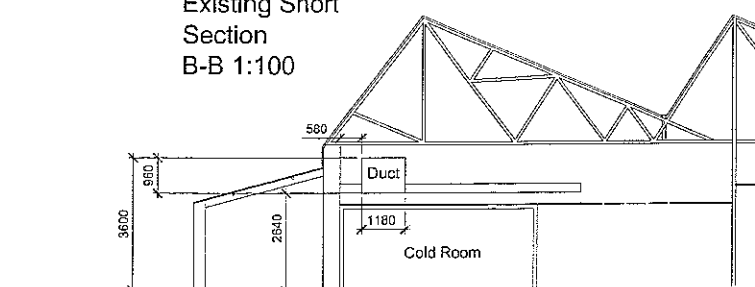


KEY PLAN

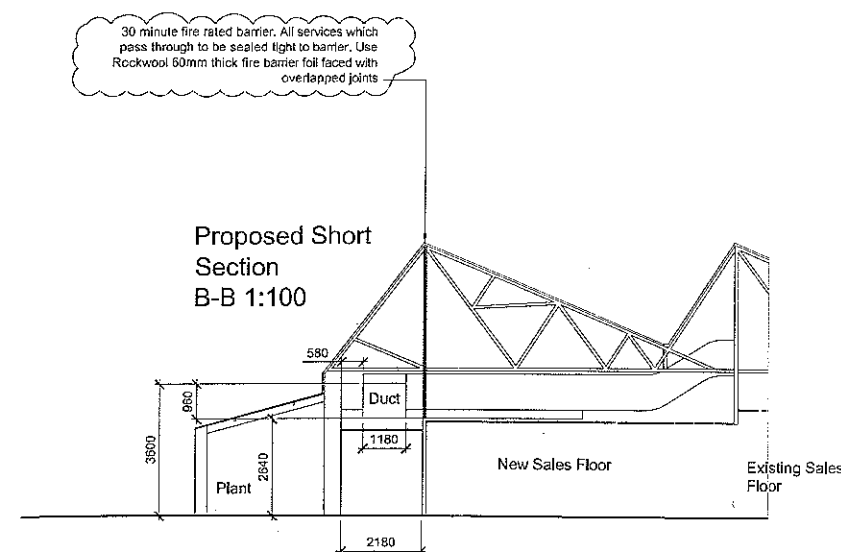


320120607P

Existing Short
Section
B-B 1:100



Proposed Short
Section
B-B 1:100



BOOTHS

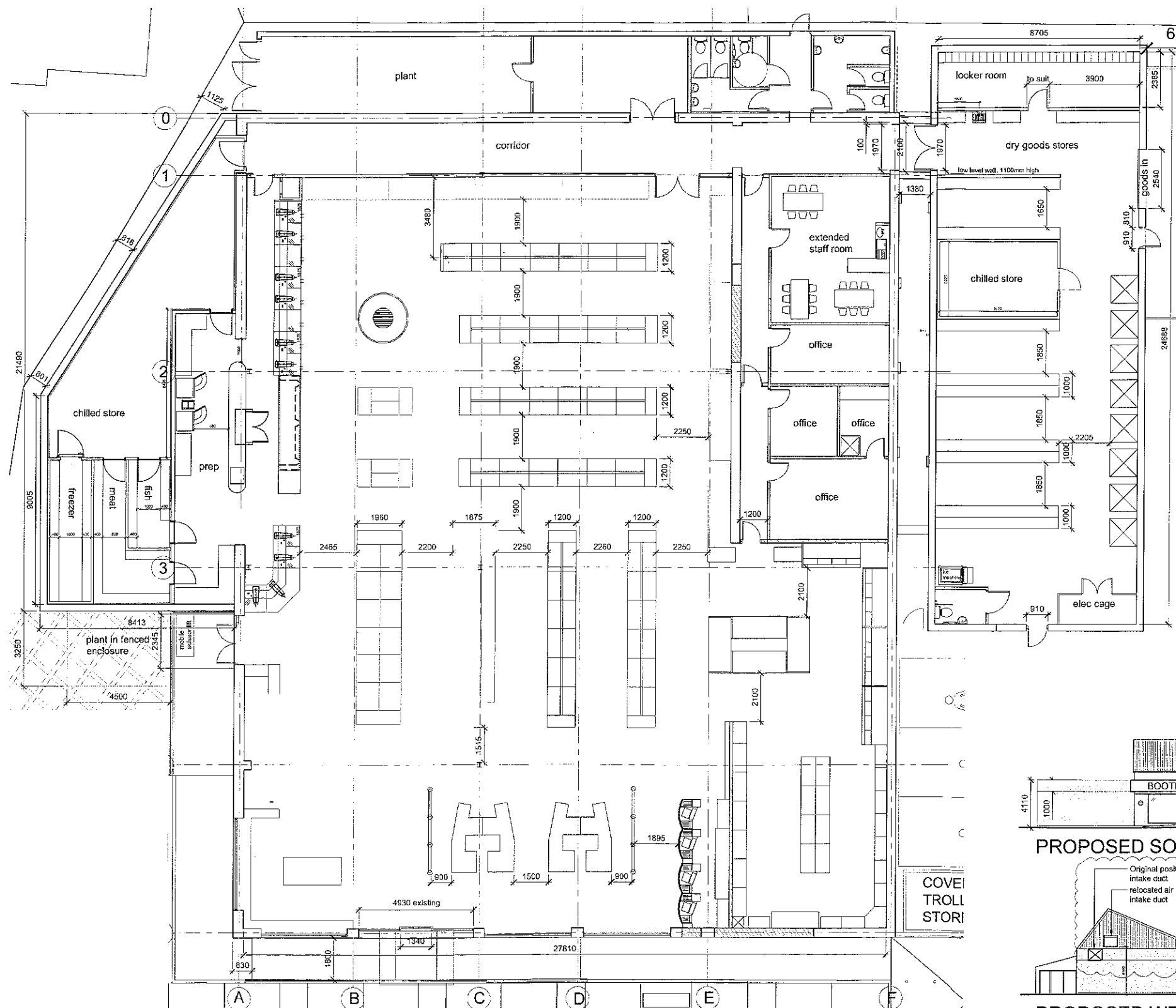
Extension to Booths Supermarket
Berry Lane
Longridge

NW JB 06.10.2011 1:100 A1

Proposed and Existing
Sections

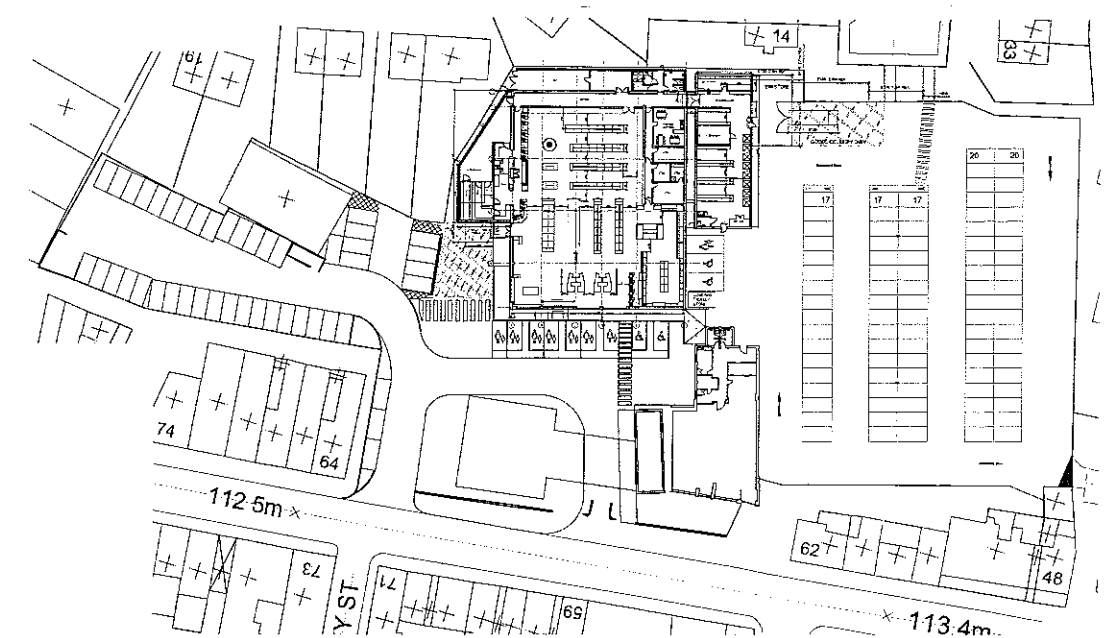
P 5432 L(2)-05

1



PROPOSED STORE LAYOUT

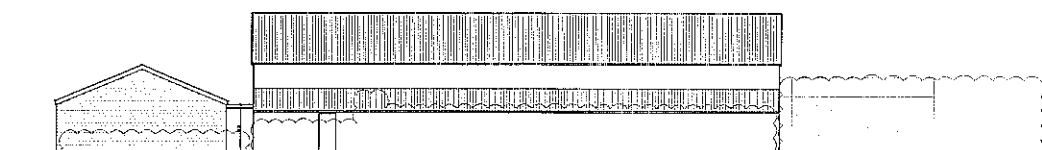
1:100



PROPOSED SITE PLAN

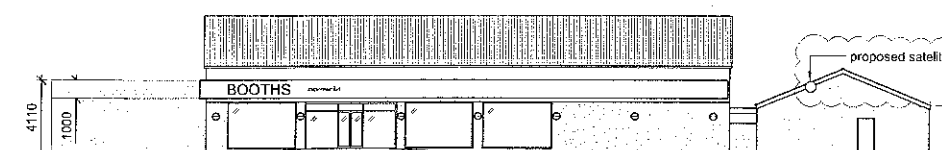
1:600

320120607P



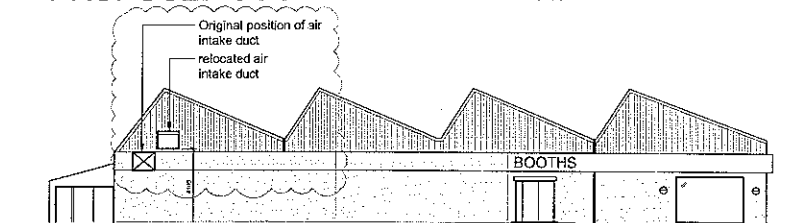
PROPOSED NORTH ELEVATION

1:200



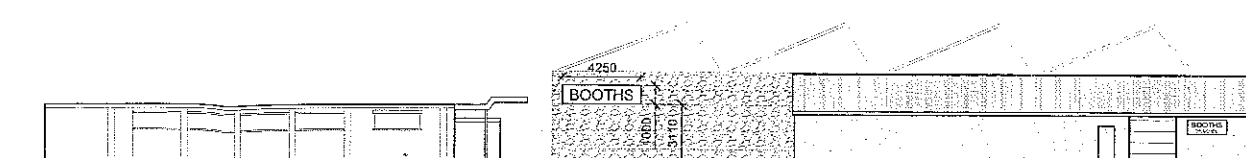
PROPOSED SOUTH ELEVATION

1:200



PROPOSED WEST ELEVATION

1:200



PROPOSED EAST ELEVATION

1:200

8	JRB	air intake duct and relocated air intake	2011.12.15
7	JRB	Shop layout updated - air intake duct relocated - layout for machine added	2011.12.14
6	JRB	Updated to include grid lines and dimensions	2011.07.22
5	JRB	Work done from updated grid lines	2011.07.12
4	JRB	Updated to include comments 06.20 and 07.20 and added following survey	2011.06.20
3	JRB	Updated to include comments 06.20 and 07.20	2011.06.06
2	JRB	2nd and 3rd floor drawings and 2D 3D 4D 5D 6D 7D 8D 9D 10D 11D 12D 13D 14D 15D 16D 17D 18D 19D 20D 21D 22D 23D 24D 25D 26D 27D 28D 29D 30D 31D 32D 33D 34D 35D 36D 37D 38D 39D 40D 41D 42D 43D 44D 45D 46D 47D 48D 49D 50D 51D 52D 53D 54D 55D 56D 57D 58D 59D 60D 61D 62D 63D 64D 65D 66D 67D 68D 69D 70D 71D 72D 73D 74D 75D 76D 77D 78D 79D 80D 81D 82D 83D 84D 85D 86D 87D 88D 89D 90D 91D 92D 93D 94D 95D 96D 97D 98D 99D 100D 101D 102D 103D 104D 105D 106D 107D 108D 109D 110D 111D 112D 113D 114D 115D 116D 117D 118D 119D 120D 121D 122D 123D 124D 125D 126D 127D 128D 129D 130D 131D 132D 133D 134D 135D 136D 137D 138D 139D 140D 141D 142D 143D 144D 145D 146D 147D 148D 149D 150D 151D 152D 153D 154D 155D 156D 157D 158D 159D 160D 161D 162D 163D 164D 165D 166D 167D 168D 169D 170D 171D 172D 173D 174D 175D 176D 177D 178D 179D 180D 181D 182D 183D 184D 185D 186D 187D 188D 189D 190D 191D 192D 193D 194D 195D 196D 197D 198D 199D 200D 201D 202D 203D 204D 205D 206D 207D 208D 209D 210D 211D 212D 213D 214D 215D 216D 217D 218D 219D 220D 221D 222D 223D 224D 225D 226D 227D 228D 229D 230D 231D 232D 233D 234D 235D 236D 237D 238D 239D 240D 241D 242D 243D 244D 245D 246D 247D 248D 249D 250D 251D 252D 253D 254D 255D 256D 257D 258D 259D 260D 261D 262D 263D 264D 265D 266D 267D 268D 269D 270D 271D 272D 273D 274D 275D 276D 277D 278D 279D 280D 281D 282D 283D 284D 285D 286D 287D 288D 289D 290D 291D 292D 293D 294D 295D 296D 297D 298D 299D 300D 301D 302D 303D 304D 305D 306D 307D 308D 309D 310D 311D 312D 313D 314D 315D 316D 317D 318D 319D 320D 321D 322D 323D 324D 325D 326D 327D 328D 329D 330D 331D 332D 333D 334D 335D 336D 337D 338D 339D 340D 341D 342D 343D 344D 345D 346D 347D 348D 349D 350D 351D 352D 353D 354D 355D 356D 357D 358D 359D 360D 361D 362D 363D 364D 365D 366D 367D 368D 369D 370D 371D 372D 373D 374D 375D 376D 377D 378D 379D 380D 381D 382D 383D 384D 385D 386D 387D 388D 389D 390D 391D 392D 393D 394D 395D 396D 397D 398D 399D 400D 401D 402D 403D 404D 405D 406D 407D 408D 409D 410D 411D 412D 413D 414D 415D 416D 417D 418D 419D 420D 421D 422D 423D 424D 425D 426D 427D 428D 429D 430D 431D 432D 433D 434D 435D 436D 437D 438D 439D 440D 441D 442D 443D 444D 445D 446D 447D 448D 449D 450D 451D 452D 453D 454D 455D 456D 457D 458D 459D 460D 461D 462D 463D 464D 465D 466D 467D 468D 469D 470D 471D 472D 473D 474D 475D 476D 477D 478D 479D 480D 481D 482D 483D 484D 485D 486D 487D 488D 489D 490D 491D 492D 493D 494D 495D 496D 497D 498D 499D 500D 501D 502D 503D 504D 505D 506D 507D 508D 509D 510D 511D 512D 513D 514D 515D 516D 517D 518D 519D 520D 521D 522D 523D 524D 525D 526D 527D 528D 529D 530D 531D 532D 533D 534D 535D 536D 537D 538D 539D 540D 541D 542D 543D 544D 545D 546D 547D 548D 549D 550D 551D 552D 553D 554D 555D 556D 557D 558D 559D 560D 561D 562D 563D 564D 565D 566D 567D 568D 569D 570D 571D 572D 573D 574D 575D 576D 577D 578D 579D 580D 581D 582D 583D 584D 585D 586D 587D 588D 589D 590D 591D 592D 593D 594D 595D 596D 597D 598D 599D 600D 601D 602D 603D 604D 605D 606D 607D 608D 609D 610D 611D 612D 613D 614D 615D 616D 617D 618D 619D 620D 621D 622D 623D 624D 625D 626D 627D 628D 629D 630D 631D 632D 633D 634D 635D 636D 637D 638D 639D 640D 641D 642D 643D 644D 645D 646D 647D 648D 649D 650D 651D 652D 653D 654D 655D 656D 657D 658D 659D 660D 661D 662D 663D 664D 665D 666D 667D 668D 669D 670D 671D 672D 673D 674D 675D 676D 677D 678D 679D 680D 681D 682D 683D 684D 685D 686D 687D 688D 689D 690D 691D 692D 693D 694D 695D 696D 697D 698D 699D 700D 701D 702D 703D 704D 705D 706D 707D 708D 709D 710D 711D 712D 713D 714D 715D 716D 717D 718D 719D 720D 721D 722D 723D 724D 725D 726D 727D 728D 729D 730D 731D 732D 733D 734D 735D 736D 737D 738D 739D 740D 741D 742D 743D 744D 745D 746D 747D 748D 749D 750D 751D 752D 753D 754D 755D 756D 757D 758D 759D 760D 761D 762D 763D 764D 765D 766D 767D 768D 769D 770D 771D 772D 773D 774D 775D 776D 777D 778D 779D 780D 781D 782D 783D 784D 785D 786D 787D 788D 789D 790D 791D 792D 793D 794D 795D 796D 797D 798D 799D 800D 801D 802D 803D 804D 805D 806D 807D 808D 809D 810D 811D 812D 813D 814D 815D 816D 817D 818D 819D 820D 821D 822D 823D 824D 825D 826D 827D 828D 829D 830D 831D 832D 833D 834D 835D 836D 837D 838D 839D 840D 841D 842D 843D 844D 845D 846D 847D 848D 849D 850D 851D 852D 853D 854D 855D 856D 857D 858D 859D 860D 861D 862D 863D 864D 865D 866D 867D 868D 869D 870D 871D 872D 873D 874D 875D 876D 877D 878D 879D 880D 881D 882D 883D 884D 885D 886D 887D 888D 889D 890D 891D 892D 893D 894D 895D 896D 897D 898D 899D 900D 901D 902D 903D 904D 905D 906D 907D 908D 909D 910D 911D 912D 913D 914D 915D 916D 917D 918D 919D 920D 921D 922D 923D 924D 925D 926D 927D 928D 929D 930D 931D 932D 933D 934D 935D 936D 937D 938D 939D 940D 941D 942D 943D 944D 945D 946D 947D 948D 949D 950D 951D 952D 953D 954D 955D 956D 957D 958D 959D 960D 961D 962D 963D 964D 965D 966D 967D 968D 969D 970D 971D 972D 973D 974D 975D 976D 977D 978D 979D 980D 981D 982D 983D 984D 985D 986D 987D 988D 989D 990D 991D 992D 993D 994D 995D 996D 997D 998D 999D 1000D 1001D 1002D 1003D 1004D 1005D 1006D 1007D 1008D 1009D 1010D 1011D 1012D 1013D 1014D 1015D 1016D 1017D 1018D 1019D 1020D 1021D 1022D 1023D 1024D 1025D 1026D 1027D 1028D 1029D 1030D 1031D 1032D 1033D 1034D 1035D 1036D 1037D 1038D 1039D 1040D 1041D 1042D 1043D 1044D 1045D 1046D 1047D 1048D 1049D 1050D 1051D 1052D 1053D 1054D 1055D 1056D 1057D 1058D 1059D 1060D 1061D 1062D 1063D 1064D 1065D 1066D 1067D 1068D 1069D 1070D 1071D 1072D 1073D 1074D 1075D 1076D 1077D 1078D 1079D 1080D 1081D 1082D 1083D 1084D 1085D 1086D 1087D 1088D 1089D 1090D 1091D 1092D 1093D 1094D 1095D 1096D 1097D 1098D 1099D 1100D 1101D 1102D 1103D 1104D 1105D 1106D 1107D 1108D 1109D 1110D 1111D 1112D 1113D 1114D 1115D 1116D 1117D 1118D 1119D 1120D 1121D 1122D 1123D 1124D 1125D 1126D 1127D 1128D 1129D 1130D 1131D 1132D 1133D 1134D 1135D 1136D 1137D 1138D 1139D 1140D 1141D 1142D 1143D 1144D 1145D 1146D 1147D 1148D 1149D 1150D 1151D 1152D 1153D 1154D 1155D 1156D 1157D 1158D 1159D 1160D 1161D 1162D 1163D 1164D 1165D 1166D 1167D 1168D 1169D 1170D 1171D 1172D 1173D 1174D 1175D 1176D 1177D 1178D 1179D 1180D 1181D 1182D 1183D 1184D 1185D 1186D 1187D 1188D 1189D 1190D 1191D 1192D 1193D 1194D 1195D 1196D 1197D 1198D 1199D 1200D 1201D 1202D 1203D 1204D 1205D 1206D 1207D 1208D 1209D 1210D 1211D 1212D 1213D 1214D 1215D 1216D 1217D 1218D 1219D 1220D 1221D 1222D 1223D 1224D 1225D 1226D 1227D 1228D 1229D 1230D 1231D 1232D 1233D 1234D 1235D 1236D 1237D 1238D 1239D 1240D 1241D 1242D 1243D 1244D 1245D 1246D 1247D 1248D 1249D 1250D 1251D 1252D 1253D 1254D 1255D 1256D 1257D 1258D 1259D 1260D 1261D 1262D 1263D 1264D 1265D 1266D 1267D 1268D 1269D 1270D 1271D 1272D 1273D 1274D 1275D 1276D 1277D 1278D 1279D 1280D 1281D 1282D 1283D 1284D 1285D 1286D 1287D 1288D 1289D 1290D 1291D 1292D 1293D 1294D 1295D 1296D 1297D 1298D 1299D 1300D 1301D 1302D 1303D 1304D 1305D 1306D 1307D 1308D 1309D 1310D 1311D 1312D 1313D 1314D 1315D 1316D 1317D 1318D 1319D 1320D 1321D 1322D 1323D 1324D 1325D 1326D 1327D 1328D 1329D 1330D 1331D 1332D 1333D 1334D 1335D 1336D 1337D 1338D 1339D 1340D 1341D 1342D 1343D 1344D 1345D 1346D 1347D 1348D 1349D 1350D 1351D 1352D 1353D 1354D 1355D 1356D 1357D 1358D 1359D 1360D 1361D 1362D 1363D 1364D 1365D 1366D 1367D 1368D 1369D 1370D 1371D 1372D 1373D 1374D 1375D 1376D 1377D 1378D 1379D 1380D 1381D 1382D 1383D 1384D 1385D 1386D 1387D 1388D 1389D 1390D 1391D 1392D 1393D 1394D 1395D 1396D 1397D 1398D 1399D 1400D 1401D 1402D 1403D 1404D 1405D 1406D 1407D 1408D 1409D 1410D 1411D 1412D 1413D 1414D 1415D 1416D 1417D 1418D 1419D 1420D 1421D 1422D 1423D 1424D 1425D 1426D 1427D 1428D 1429D 1430D 1431D 1432D 1433D 1434D 1435D 1436D 1437D 1438D 1439D 1440D 1441D 1442D 1443D 1444D 1445D 1446D 1447D 1448D 1449D 1450D 1451D 1452D 1453D 1454D 1455D 1456D 1457D 1458D 1459D 1460D 1461D 1462D 1463D 1464D 1465D 1466D 1467D 1468D 1469D 1470D 1471D 1472D 1473D 1474D 1475D 1476D 1477D 1478D 1479D 1480D 1481D 1482D 1483D 1484D 1485D 1486D 1487D 1488D 1489D 1490D 1491D 1492D 1493D 1494D 1495D 1496D 1497D 1498D 1499D 1500D 1501D 1502D 1503D 1504D 1505D 1506D 1507D 1508D 1509D 1510D 1511D 1512D 1513D 1514D 1515D 1516D 1517D 1518D 1519D 1520D 1521D 1522D 1523D 1524D 1525D 1526D 1527D 1528D 1529D 1530D 1531D 1532D 1533D 1534D 1535D 1536D 1537D 1538D 1539D 1540D 1541D 1542D 1543D 1544D 1545D 1546D 1547D 1548D 1549D 1550D 1551D 1552D 1553D 1554D 1555D 1556D 1557D 1558D 1559D 1560D 1561D 1562D 1563D 1564D 1565D 1566D 1567D 1568D 1569D 1570D 1571D 1572D 1573D 1574D 1575D 1576D 1577D 1578D 1579D 1580D 1581D 1582D 1583D 1584D 1585D 1586D 1587D 1588D 1589D 1590D 1591D 1592D 1593D 1594D 1595D 1596D 1597D 1598D 1599D 1600D 1601D 1602D 1603D 1604D 1605D 1606D 1607D 1608D 1609D 1610D 1611D 1612D 1613D 1614D 1615D 1616D 1617D 1618D 1619D 1620D 1621D 1622D 1623D 1624D 1625D 1626D 1627D 1628D 1629D 1630D 1631D 1632D 1633D 1634D 1635D 1636D 1637D 1638D 1639D 1640D 1641D 1642D 1643D 1644D 1645D 1646D 1647D 1648D 1649D 1650D 1651D 1652D 1653D 1654D 1655D 1656D 1657D 1658D 1659D 1660D 1661D 1662D 1663D 1664D 1665D 1666D 1667D 1668D 1669D 1670D 1671D 1672D 1673D 1674D 1675D 1676D 1677D 1678D 1679D 1680D 1681D 1682D 1683D 1684D 1685D 1686D 1687D 1688D 1689D 1690D 1691D 1692D 1693D 1694D 1695D 1696D 1697D 1698D 1699D 1700D 1701D 1702D 1703D 1704D 1705D 1706D 1707D 1708D 1709D 1710D 1711D 1712D 1713D 1714D 1715D 1716D 1717D 1718D 1719D 1720D 1721D 1722D 1723D 1724D 1725D 1726D 1727D 1728D 1729D 1730D 1731D 1732D 1733D 1734D 1735D 1736D 1737D 1738D 1739D 1740D 1741D 1742D 1743D 1744D 1745D 1746D 1747D 1748D 1749D 1750D 1751D 1752D 1753D 1754D 1755D 1756D 1757D 1758D 1759D 1760D 1761D 1762D 1763D 1764D 1765D 1766D 1767D 1768D 1769D 1770D 1771D 1772D 1773D 1774D 1775D 1776D 1777D 1778D 1779D 1780D 1781D 1782D 1783D 1784D 1785D 1786D 1787D 1788D 1789D 1790D 1791D 1792D 1793D 1794D 1795D 1796D 1797D 1798D 1799D 1800D 1801D 1802D 1803D 1804D 1805D 1806D 1807D 1808D 1809D 1810D 1811D 1812D 1813D 1814D 1815D 1816D 1817D 1818D 1819D 1820D 1821D 1822D 1823D 1824D 1825D 1826D 1827D 1828D 1829D 1830D 1831D 1832D 1833D 1834D 1835D 1836D 1837D 1838D 1839D 1840D 1841D 1842D 1843D 1844D 1845D 1846D 1847D 1848D 1849D 1850D 1851D 1852D 1853D 1854D 1855D 1856D 1857D 1858D 1859D 1860D 1861D 1862D 1863D 1864D 1865D 1866D 1867D 1868D 1869D 1870D 1871D 1872D 1873D 1874D 1875D 1876D 1877D 1878D 1879D 1880D 1881D 1882D 1883D 1884D 1885D 1886D 1887D 1888D 1889D 1890D 1891D 1892D 1893D 1894D 1895D 1896D 1897D 1898D 1899D 1900D 1901D 1902D 1903D 1904D 1905D 1906D 1907D 1908D 1909D 1910D 1911D 1912D 1913D 1914D 1915D 1916D 1917D 1918D 1919D 1920D 1921D 1922D 1923D 1924D 1925D 1926D 1927D 1928D 1929D 1930D 1931D 1932D 1933D 1934D 1935D 1936D 1937D 1938D 1939D 1940D 1941D 1942D 1943D 1944D 1945D 1946D 1947D 1948D 1949D 1950D 1951D 1952D 1953D 1954D 1955D 1956D 1957D 1958D 1959D 1960D 1961D 1962D 1963D 1964D 1965D 1966D 1967D 1968D 1969D 1970D 1971D 1972D 1973D 1974D 1975D 1976D 1977D 1978D 1979D 1980D 1981D 1982D 1983D 1984D 1985D 1986D 1987D 1988D 1989D 1990D 1991D 1992D 1993D 1994D 1995D 1996D 1997D 1998D 1999D 2000D 2001D 2002D 2003D 2004D 2005D 2006D 2007D 2008D 2009D 2010D 2011D 2012D 2013D 2014D 2015D 2016D 2017D 2018D 2019D 2020D 2021D 2022D 2023D 2024D 2025D 2026D 2027D 2028D 2029D 2030D 2031D 2032D 2033D 2034D 2035D 2036D 2037D 2038D 2039D 2040D 2041D 2042D 2043D 2044D 2045D 2046D 2047D 2048D 2049D 2050D 2051D 2052D 2053D 2054D 2055D 2056D 2057D 2058D 2059D 2060D 2061D 2062D 2063D 2064D 2065D 2066D 2067D 2068D 2069D 2070D 2071D 2072D 2073D 2074D 2075D 2076D 2077D 2078D 2079D 2080D 2081D 2082D 2083D 2084D 2085D 2086D 2087D 2088D 2089D 2090D 2091D 2092D 2093D 2094D 2095D 2096D 2097D 2098D 2099D 2100D 2101D 2102D 2103D 2104D 2105D 2106D 2107D 2108D 2109D 2110D 2111D 2112D 2113D 2114D 2115D 2116D 2117D 2118D 2119D 2120D 2121D 2122D 2123D 2124D 2125D 2126D 2127D 2128D 2129D 2130D 2131D 2132D 2133D 2134D 2135D 2136D 2137D 2138D 2139D 2140D 2141D 2142D 2143D 2144D 2145D 2146D 2147D 2148D 2149D 2150D 2151D 2152D 2153D 2154D 2155D 2156D 2157D 2158D 2159D 2160D 2161D 2162D 2163D 2164D 2165D 2166D 2167D 2168D 2169D 2170D 2171D 2172D 2173D 2174D 2175D 2176D 2177D 2178D 2179D 2180D 2181D 2182D 2183D 2184D 2185D 2186D 2187D 2188D 2189D 2190D 2191D 2192D 2193D 2194D 2195D 2196D 219	

existing 2.0m high fence unchanged to suit most local resident at no. 14, whose house it bounds
existing macadam path removed, filled with topsoil and grass seeded

indicates proposed line of council owned path in order to segregate pedestrians from vehicles

existing macadam path widened with 50x150mm flat top concrete edgings to each side (flush with surface) and set on 150mm wide concrete foundation with haunches both sides. Macadam surface constructed of:
20mm medium graded macadam surface course
50mm dense bitumen macadam binder course
125mm MDT type 1 sub base

new extension of non-acoustic close boarded fence, 1.4m high to allow pedestrians to view motor vehicles whilst protecting from HGV delivery.

white thermoplastic road marking paint (pedestrian crossing)

yellow thermoplastic road marking paint

1.9m high reclaimed palisade fence and gate for security

pedestrian walkway in white road marking paint

existing lighting column with protection

320120607P



0 2 4 6 8 10m

6	JRB	car drop-off/pick-up added	2012.07.04
5	JRB	additional site added to pavement	2012.03.06
4	JRB	pedestrian walkway removed	2012.01.11
3	JRB	planting of six trees, trolley bay site reduced and car park site reduced. Former area of site bounded by 5.0m, board mounting floor shown, without fence and existing systems shown	2011.12.10
2	JRB	front pole and scale bar added	2011.12.11
1	JRB	system updated. Additional info: 6-metre scale	2011.10.26
Rev	Dr	01/12/11	Revised
Rev	Dr	01/12/11	Revised

BOOTHS

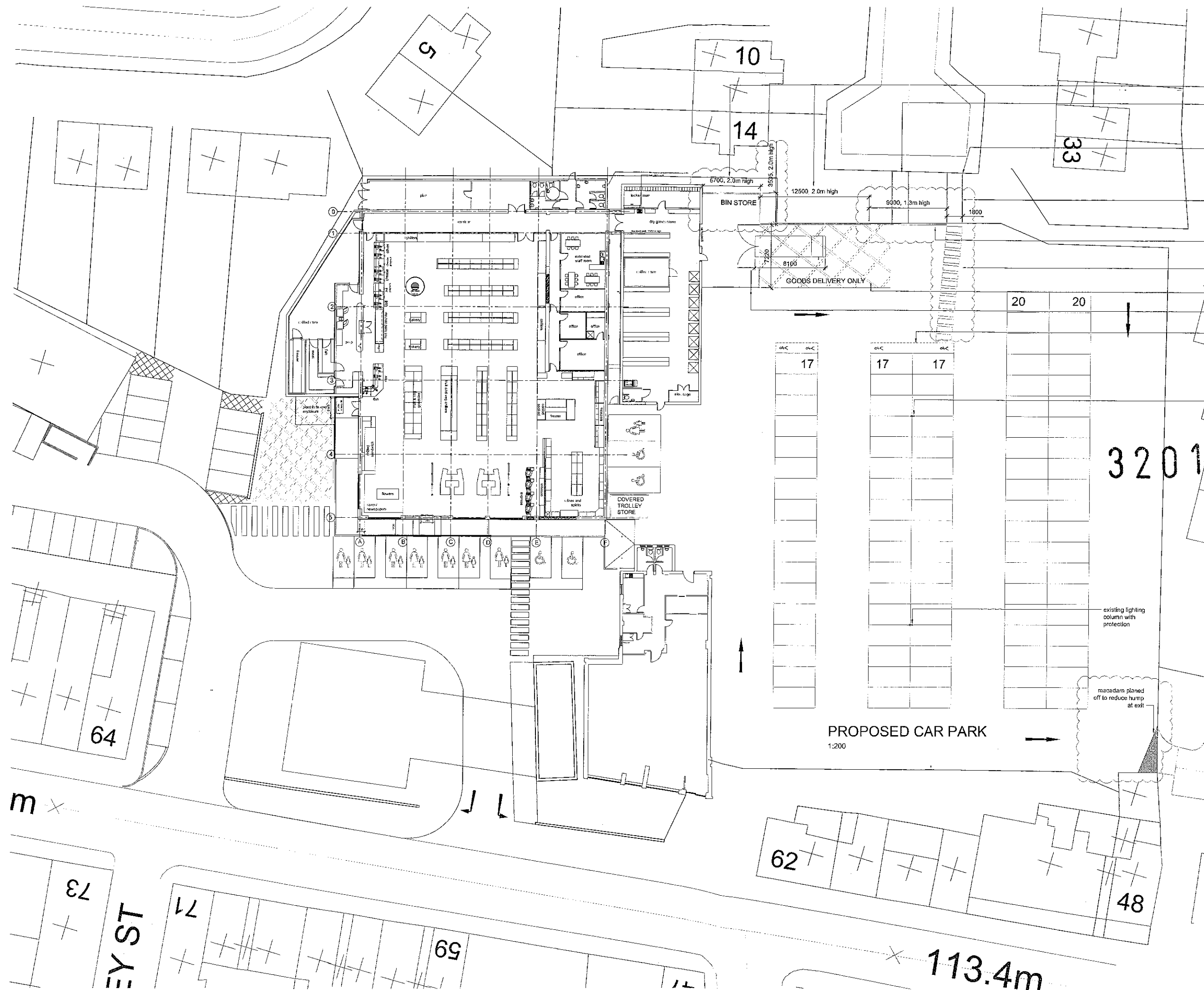
project Extension to Booths Supermarket
Berry Lane
Longridge

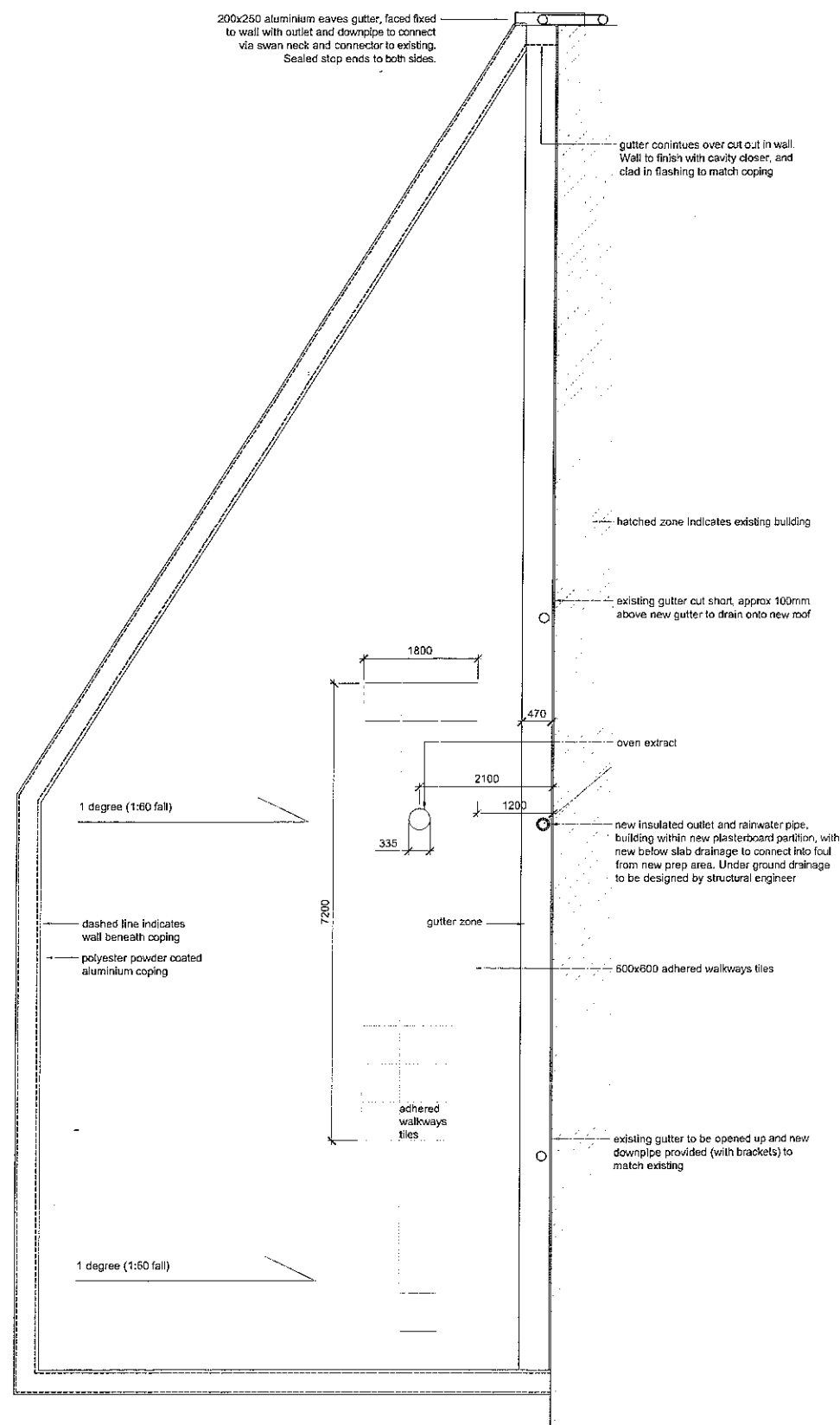
by JRB DS 12.05.2011 1:200 A1

title CAR PARK PROPOSALS

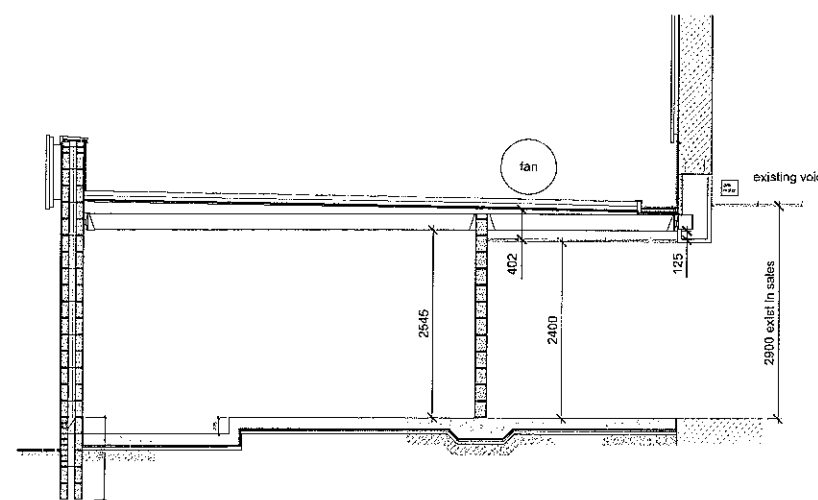
scale 1:200 revision 6

Wilson Mason and Partners





ROOF LAYOUT



SECTION

320120607P

BOOTHS

project Extension to Booths Supermarket
Berry Lane
Longridge

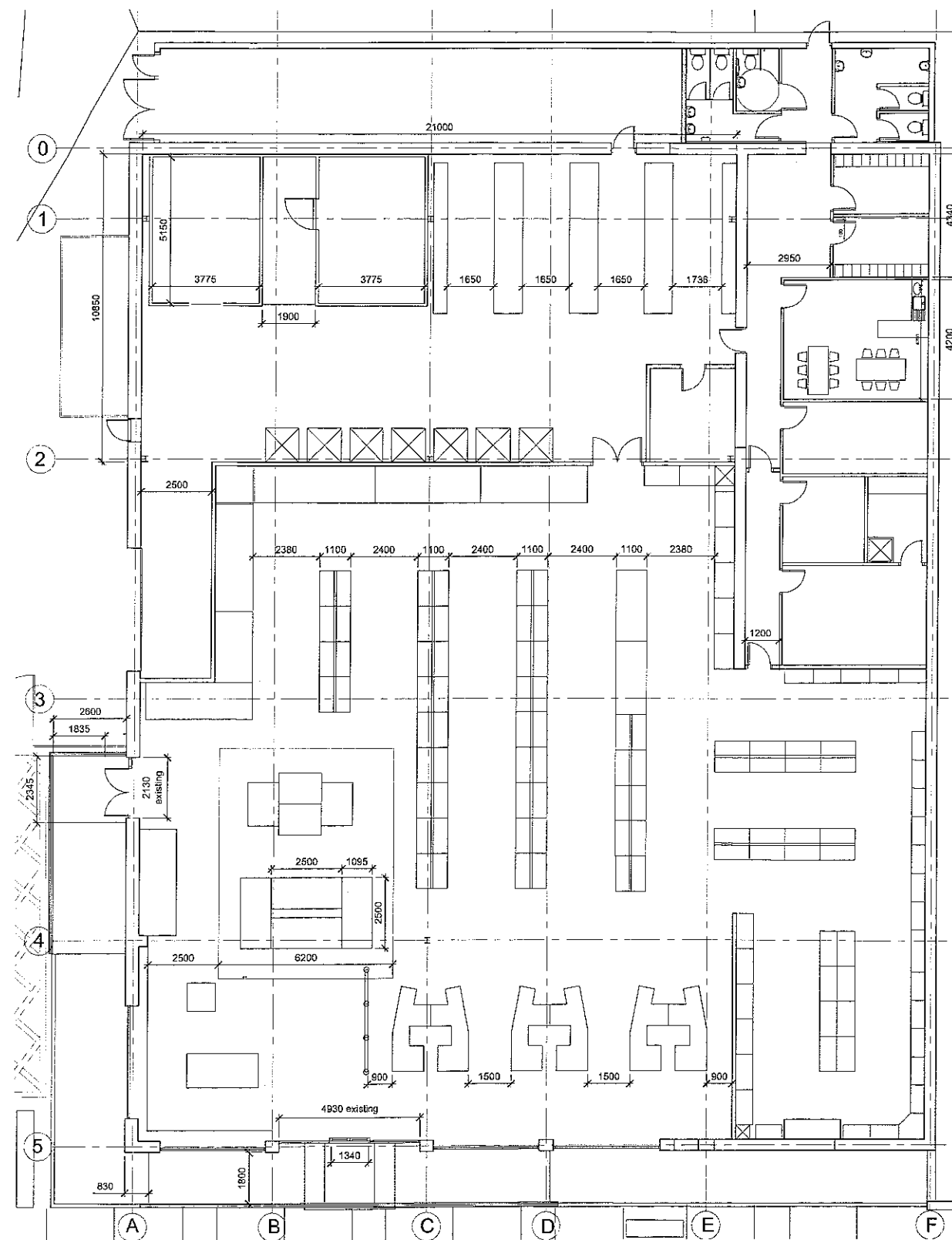
by JRB DS 15.12.2011 scale 1:50 sheet size A1

title PROPOSED EXTENSION
ROOF PLAN AND SECTION

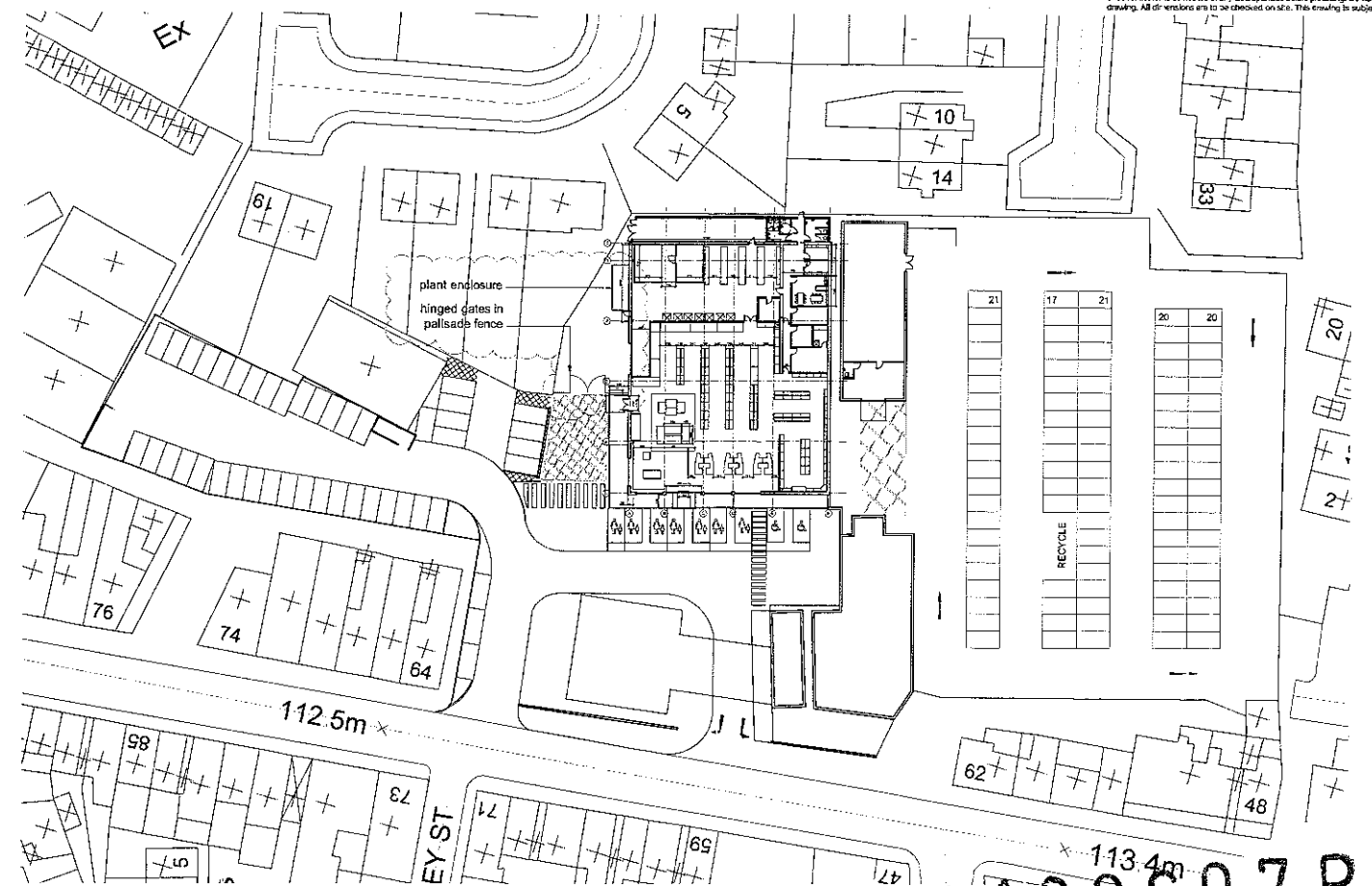
1/2015 2015/01/2015 revision

C 5432 L(1)-05

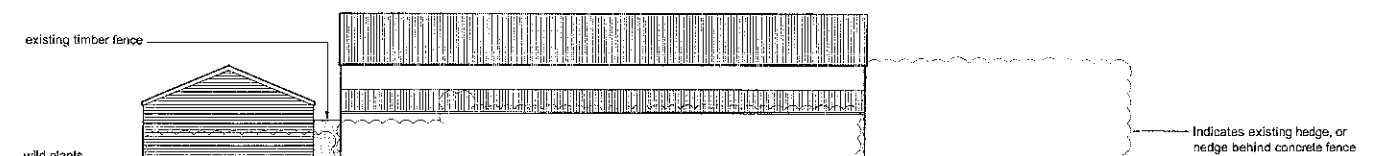
0



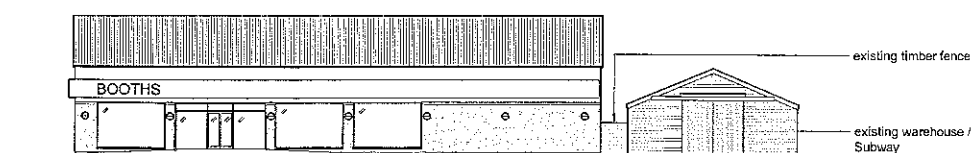
EXISTING STORE LAYOUT
1:100



EXISTING SITE PLAN 1:500



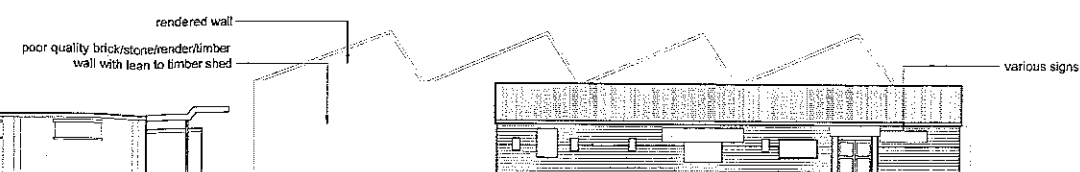
EXISTING NORTH ELEVATION 1:200



EXISTING SOUTH ELEVATION 1:200



EXISTING WEST ELEVATION 1:200



EXISTING EAST ELEVATION 1:200

BOOTH'S

project Extension to Booth's Supermarket
Berry Lane
Longridge

by JRB DS 20 04 2011 1:100 A1

EXISTING FLOOR PLAN & ELEVATION

scale 1:100

revision

320120607P

3

C 5432 L(1)-01

Wilson Masor and Partners

Chartered Architects