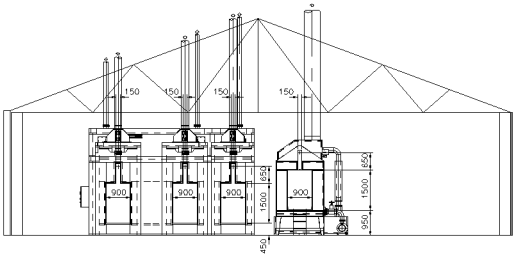
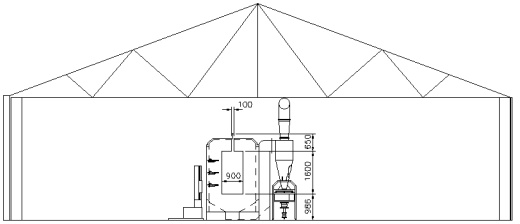


FRONT ELEVATION DETAILING
OVENS AND PRE-TREATMENT PLANT



FRONT ELEVATION DETAILING
POWDER COATING BOOTH

PLANT ASSUMES MAX PRODUCT SIZE OF 4.0m LG x 0.8m WIDE x 1.4m HIGH HUNG AT 2.5m CENTRES

SERVICE CONNECTIONS

GAS REQUIREMENTS (BY CUSTOMER)

1. 18 THERM Ø 8" WG NAT GAS SUPPLY TO PRE TREATMENT TANK 1 BURNER.
2. 16 THERM Ø 8" WG NAT GAS SUPPLY TO CURING OVEN BURNER.
3. 12 THERM Ø 8" WG NTA GAS SUPPLY TO DRYING OVEN BURNER.

ELECTRIC REQUIREMENTS (BY CUSTOMER)

60 kW 3 Ph & N ELECTRIC SUPPLY TO MASTER CONTROL REQUIRED. PANEL SHOWN IN SUGGESTED POSITION ONLY – CUSTOMER TO CONFIRM DESIRED POSITION.
20kw 3Ph & N ELECTRIC SUPPLY TO NORDSON BOOTH.

WATER AND DRAIN REQUIREMENTS (BY CUSTOMER)

2 x MAINS WATER CONNECTION TO PRE-TREATMENT TANK, ONE TO A BALLCOCK (SUPPLIED) AND ONE TO FEED DIRECTLY IN TO EACH TANK FOR FILLING PURPOSES. A STOP VALVE IS REQUIRED ON THE DIRECT FEEDS.

1 x MAINS WATER CONNECTION TO PRE-TREATMENT FINAL SPRAY RING.

EACH PRE-TREATMENT TANK HAS AN 1 1/2" OVERFLOW CONNECTION AND A 3" DRAIN VALVE (FLANGED PN10) TO BE ROUTED TO FOUL SEWER BY CUSTOMER.

CIVILS (BY CUSTOMER)

HOLES FOR ALL DUCTS TO BE CUT IN ROOF OF BUILDING AND SEALED UP BY CUSTOMER AFTER RDM HAVE ERECTED DUCTING.

PRE-TREATMENT SPEC.

INTERNAL USEABLE DIMENSIONS : 13.9m x 0.8m x 1.4 HIGH
FE 8014B000/1.5 SILHOUETTE EXTRACT FANS
LANDMARK TF60 18 THERM BURNER C/W 24/300 FAN
CALPEDA NM4 100/29AE TANK 1 PUMP
CALPEDA NM4-50/25AE TANK 2 PUMP
INTERIOR : 304 STAINLESS OVEN
EXTERIOR : COATED & INSULATED SHEETS C/W 40mm ROCKWOOL.

CURING OVEN SPEC.

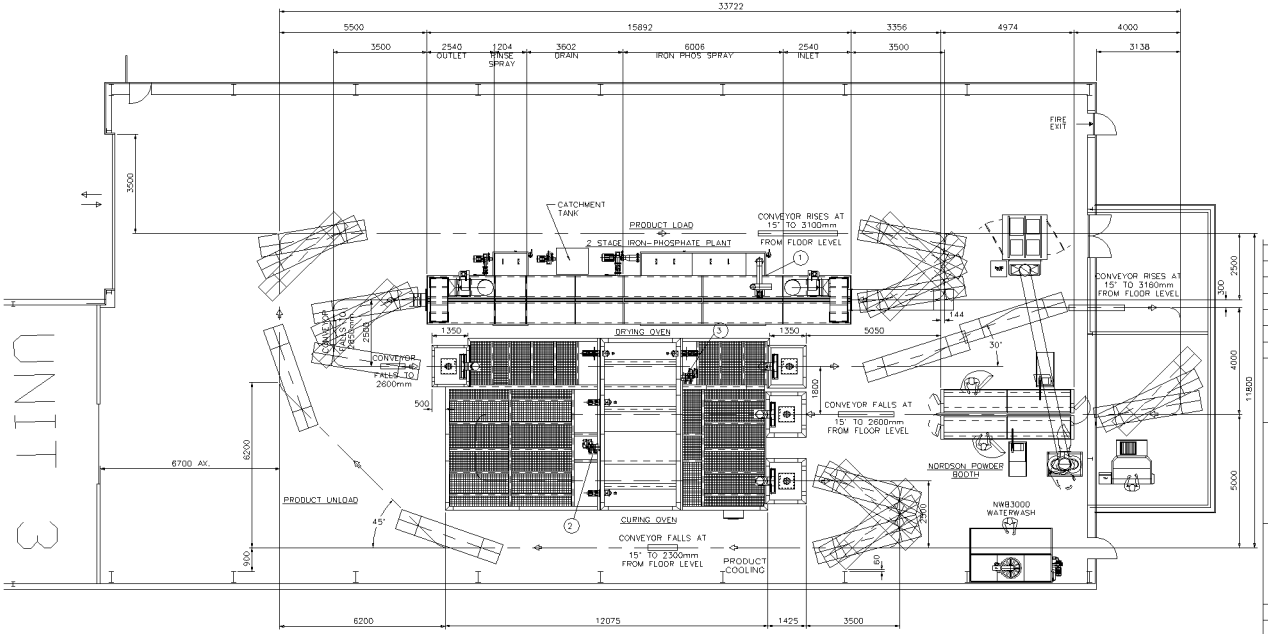
INTERNAL DIMENSIONS : 13.5m x 3.4m x 2.8 HIGH
FE PF8000/5.55 x 2 RECIRC FAN / FE PF8000/4C AIR SEAL FAN
WM08 BURNER
OVEN INTERIOR : GALV / OVEN EXTERIOR : GALV
80gsm 150mm ROCKWOOL / TEMP RANGE : 100–225°C
INSULATED FLOOR.

DRYING OVEN SPEC.

INTERNAL DIMENSIONS : 14.5m x 1.65m x 2.8 HIGH
FE PF8000/45 x 2 RECIRC FAN / FE PF8000/4C AIR SEAL FAN
WM27 BURNER
OVEN INTERIOR : GALV / OVEN EXTERIOR : GALV
80gsm 100mm ROCKWOOL / TEMP RANGE : 100–225°C.
INSULATED FLOOR.

CONVEYOR SPEC.

ST5550M SIDE MOUNTED TRACK / 50KG PER CARRIER.



CUSTOMER :-

ISSUE	REVISION	DATE	SIGN
F			
E			
D			
C			
B			
A			

TITLE

LAYOUT OF POWDER COATING FACILITY

RDM ENGINEERING
MIDDLETON
MANCHESTER
M24 2RY
TEL: 0161 643 9333
FAX: 0161 655 3467

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DRAWN S.JAMIESON	DATE 27-10-06
CH'K'D	DATE
SCALE 1 : 75 (A1 SHEET)	FIRST ANGLE PROJECTION
IF IN DOUBT ASK DO NOT SCALE	ALL DIMENSIONS IN MILLIMETRES
ORDER 45669	DRG No 32245F