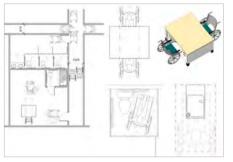
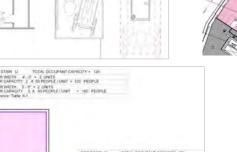


# BIM Services for Buildings, Infrastructure & Transportation ENCLOSURE STRUCTURE EQUIPMENT INTEGRATED UTILITIES FFE - INT LONDON Tall Buildings Airports Sport Civic & Govt Education Site & Campus Justice Mission Critical Army Corps Infrastructure Bridges Utilities Equipment million sqft of BIM projects executed since 2005 for some of the best & leading Design and Construction firms across the world, covering Modeling of all trades and their virtual Coordination with support for BIM Implementation

#### Benefits of BIM for Designers

# ANALYSE preliminary project stage AREA & VOLUME studies





STAR WOTH 4.0 - 2 UNITS STAR CAPACITY 2 K M PEGNE / UN DOOR WOTH 3-0 - 2 UNITS DOOR GAPACITY 2 X 16 PECPLE / U Reference: Table 6-1	
GROUP D-2	ENT DOOR 13 TOTAL COOLPANT CAPACITY 150 DOOR CAPACITY 13 * 101 HEDRE   UNIT = 150 PEOPLE   UNIT = 150 PEOP
DEDUCTIBLE 204 SF	EST STAIR V TOTAL OCCUPÁNT DAPACITY - 125 STAIR WOTH - 4-07 - 2 LAPTS STAIR WOTH - 5-07 - 2 LAPTS DOOR WOTH - 5-07 - 2 LAPTS DOOR WOTH - 5-07 - 2 LAPTS DOOR CAPACITY - 2 X - 2 MATS DOOR CAPACITY - 2 X - 2 MATS



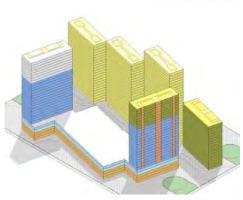
GROUP	MAX. TRAVEL DISTANCE [FT]*	OUTDOORS AT GRADE DOOR CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-1	100*	75	60	45
С	200	100	80	60
D-2	200*	100	80	60
E	300	100	80	60
F-2, F-3	175/250**	80 / 125***	80 / 125***	80
F-4	170	50 / 100***	50 / 100***	60

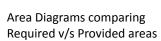
Name	Area	NFA per Occupant	Occupancy Load
DEDUCTIBLE	1161 SF	0 SF	0
GROUP C	1124 SF	25 SF	45
GROUP D-2	1042 SF	200 SF	5
GROUP E	1754 SF	100 SF	18
Grand total: 9	5081 SF		68

AREAS AND OCCUPANCY LOADS

Mass: Family	Mass: Comments	Level	Floor Area	Floor Volume
Mass 1	1	Level 1	18939	160901.97 ft <sup>3</sup>
Mass 1	-	Level 2	8939	134084.98 ft <sup>3</sup>
Mass 1		Level 3	8939	134084.98 ft <sup>3</sup>
Mass 1		Level 4	8939	298631.72 ft <sup>3</sup>
Mass 2		Level 1	19782	348086.63 ft <sup>2</sup>
Mass 2		Level 2	18894	277867.95 ft <sup>a</sup>
Mass 2		Level 3	18155	266776.26 ft <sup>3</sup>
Mass 2	1	Level 4	17415	387521.28 ft <sup>3</sup>
Mass 3		Level 1	10831	196761.43 ft <sup>a</sup>
Mass 3		Level 2	11031	166725.12 ft <sup>3</sup>
Mass 3		Level 3	11198	169231.50 ft <sup>2</sup>
Mass 3		Level 4	11366	264355.87 ft <sup>2</sup>
Mass 5		Level 2	6951	291938.29 ft <sup>3</sup>
Mass 4		Level 1	2653	50126.31 ft <sup>3</sup>
Mass 4		Level 2	2919	45500.22 ft <sup>3</sup>
Mass 4		Level 3	3149	49029.10 ft <sup>3</sup>
Mass 4		Level 4	3389	70356,50 ft <sup>3</sup>
Mass 6		Level 1	10598	211950.95 H <sup>3</sup>
Grand total	- 1D		104007	2522021 D7 ft3







Dark Orange Med Orange Light Orange Med Yellow Light Yellow White Light Pink Med Pink Light Red Med Red Dark Red

+25%-50% Over the Net SF Requested +15%-25% Over the Net SF Requested +10%-15% Over the Net SF Requested

+5-10% Over the Net SF Requested +2-5% Over the Net SF Requested

+/- 0-2% Variance

-2-5% Under the Net SF Requested -5-10% Under the Net SF Requested -10%-15% Under the Net SF Requested -15%-25% Under the Net SF Requested -25%-50% Under the Net SF Requested

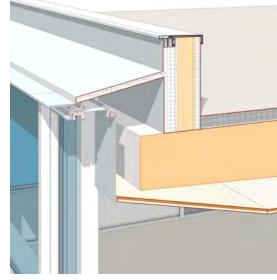


# DESIGN PHASING

# **DESIGN OPTIONS**

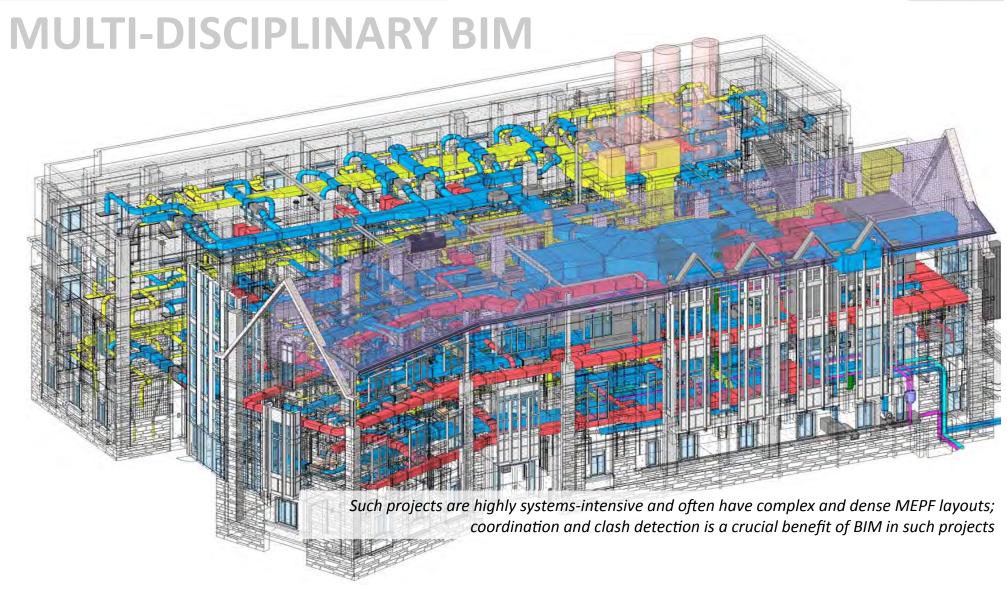






#### **Integrated Disciplines**

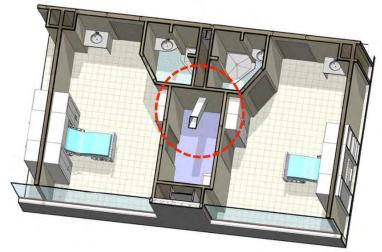




#### Benefits of BIM for Designers

# DESIGN LONDON INFOTECH

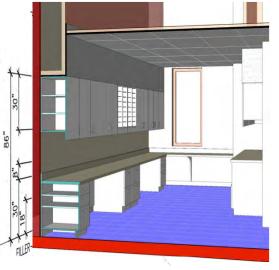
# INTEGRATE multiple disciplines DESIGN coordination

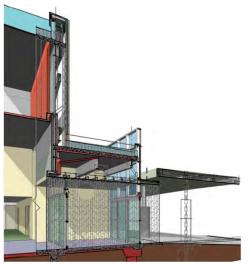






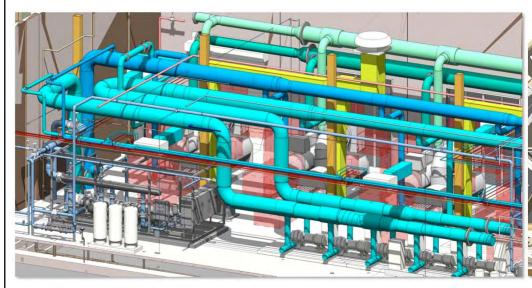


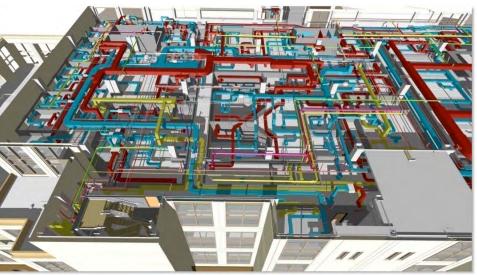


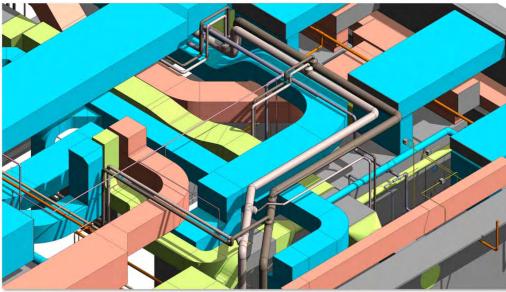


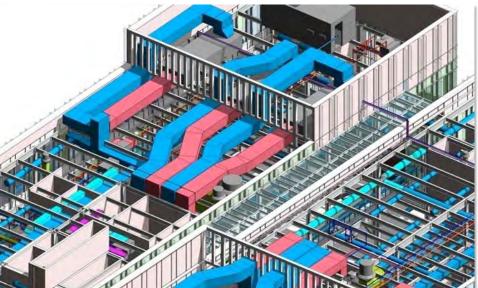
# **Integrated Disciplines**





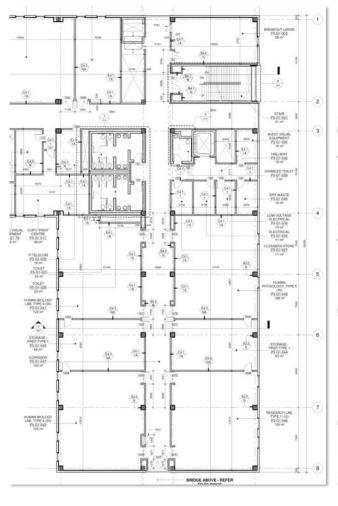


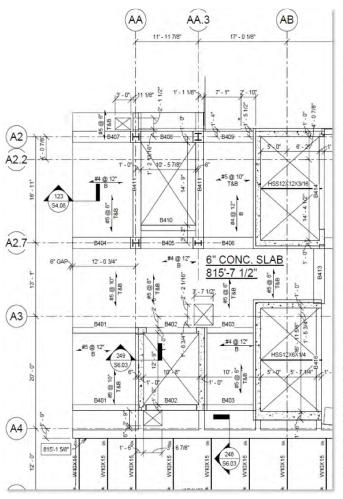


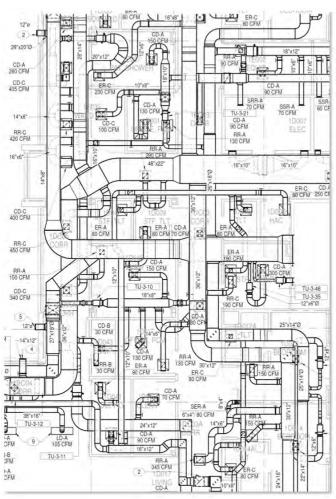




# DOCUMENTAION







### Benefits of BIM for Construction Managers

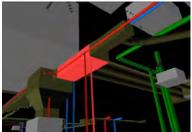


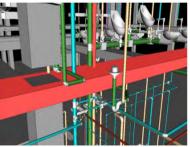
CLASH detection & coordination

4 Construction simulation

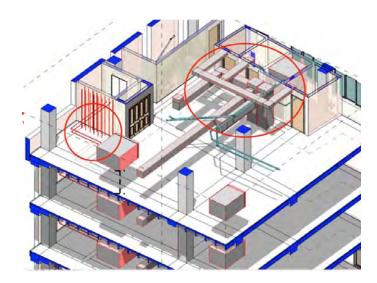












Benefits of BIM for Construction Managers

1-a300 NS/FS 2<sup>3</sup>4 GDL 6 C/C

1416×15/16

-a221 NS/FS

SHOP drawings integration

AS-BUILT documentation



#### Benefits of BIM for Owners

COST reduction

TIME saved

COORDINATED

delivery of the project

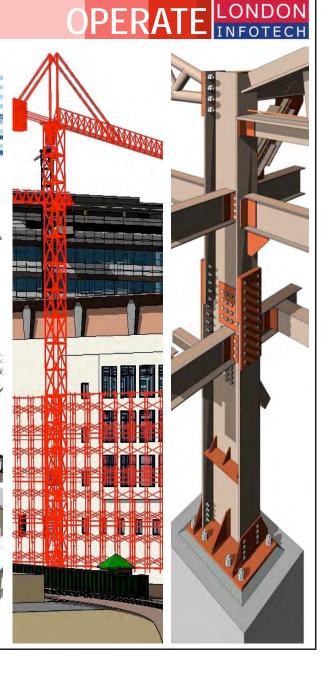
MANAGING construction

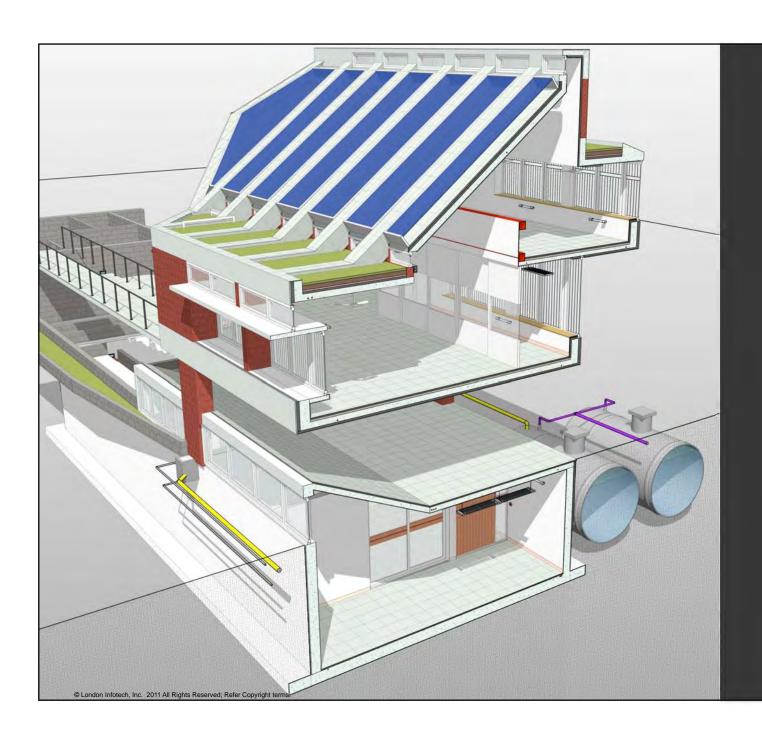
**PROCUREMENT** 

efficiency

**QUALITY** of construction

FACILITY management





NET ZERO ENERGY BUILDING

BIM

# **COLLABORATION**

- NZEB BIM Model Extracts
  - Architecture
  - Structure
  - MEP
  - Integration
  - Quantities

LONDON INFOTECH

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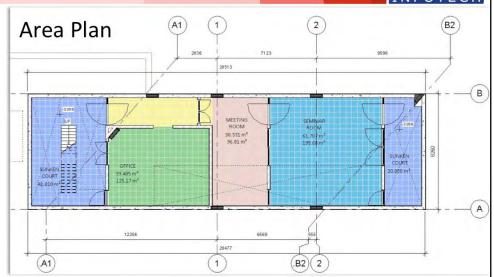
# AREA & VOLUME LONDON

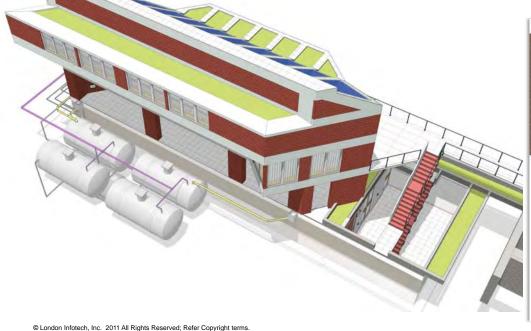
	ROOM SCH	DULE		
Name	Area	Volume	Occupancy	Comments
BASEMENT FLOOR				
OFFICE	39.485 m <sup>2</sup>	125.17 m <sup>3</sup>		
MEETING ROOM	30.531 m <sup>2</sup>	96.81 m <sup>3</sup>		
SEMINAR ROOM	61.707 m <sup>2</sup>	195.68 m <sup>3</sup>		
SUNKEN COURT	20.050 m <sup>2</sup>	76.72 m <sup>3</sup>		
SUNKEN COURT	41.010 m <sup>2</sup>	159.21 m <sup>3</sup>		
PASSAGE	12.701 m <sup>2</sup>	40.21 m <sup>3</sup>		
PASSAGE	1.659 m <sup>2</sup>	5.25 m <sup>3</sup>		
	207.144 m <sup>2</sup>	699.05 m <sup>3</sup>		
FIRST FLOOR				
THERMAL AND OPTICAL LAB	99.582 m <sup>2</sup>	261.14 m <sup>3</sup>		

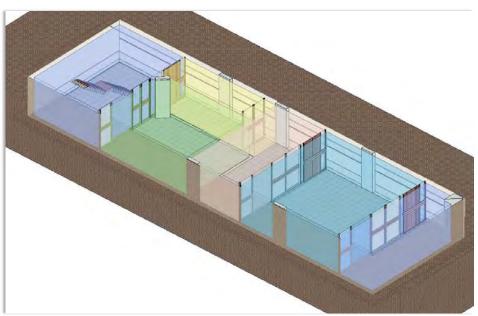
 SECOND FLOOR

 SIMULATION LAB
 77.465 m²
 212.23 m³
 4

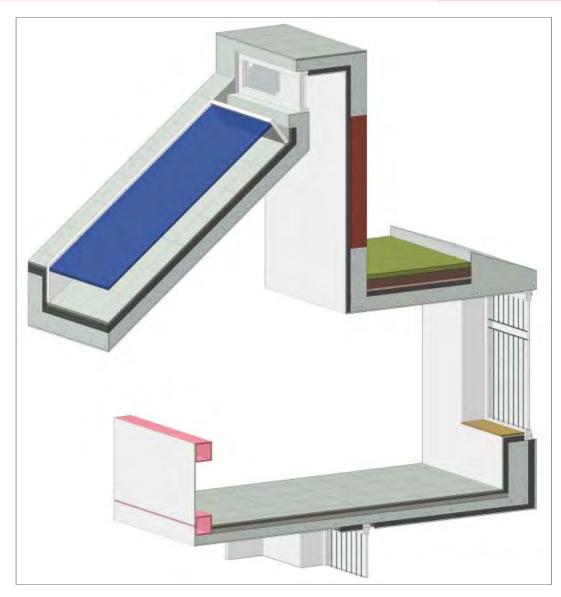
 Grand total: 9
 384.191 m²
 1172.42 m³











	INT. FLOOR FIN	ISH	750
Type	Area	Cost	Comments
BASEMENT FLOOR			
100 - 100 10 - 100			- To as - 1/2-100 121 42
15mm Ceramic Tile	212.419 m <sup>2</sup>		Floor Finish
	212.419 m <sup>2</sup>		
GROUND FLOOR			
15mm Ceramic Tile	97.460 m <sup>2</sup>		Floor Finish
	97.460 m <sup>2</sup>		
FIRST FLOOR			
15mm Ceramic Tile	122.311 m <sup>2</sup>		Floor Finish
	122.311 m <sup>2</sup>		(0)
SECOND FLOOR			
15mm Ceramic Tile	67.204 m <sup>2</sup>		Floor Finish
	67.204 m <sup>2</sup>		349

CONCRETE	SLAB/WALL/COLUM	IN	
Material	Material: Volume	Cost	Comments
Exposed Concrete	283.22 m <sup>3</sup>		

XPS/POLY STYR	ENE FOAM INS	ULATION	
Material	Material: Area	Cost	Comments
Material	Alca	COST	Comments

XPS/Poly Styrene Foam Insulation	757.170 m <sup>2</sup>		
----------------------------------	------------------------	--	--

	ROOF GARDE	N	te:
Type	Area	Cost	Comments
50mm Vegetation	47.340 m <sup>2</sup>		Vegetation

# BUILDING SYSTEMS LONDON INFOTECH

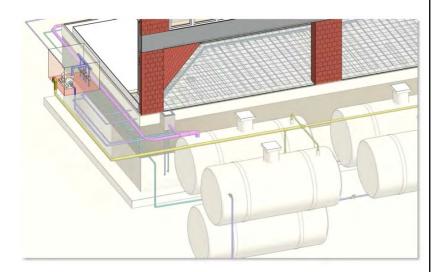


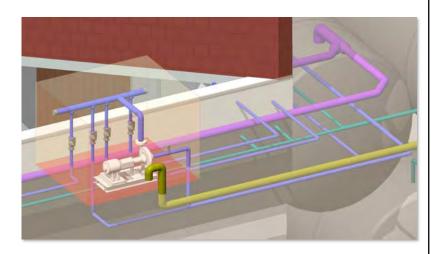


# INTEGRATED DISCIPLINES LONDON INFOTECH **NZEB**









# QUANTITIES LONDON

	Pipe Sche	dule
Pipe Type	Size	Length
CWR	1 1/2"	152' - 3 31/32"
CWR	2"	21' - 7 1/16"
CWS	1 1/2"	191' - 1 9/32"
CWS	2"	75' - 2 3/4"
CWS	3"	4' - 9 1/8"
Radiant Piping	3/4"	6227' - 3 9/16"
Rain water	4"	213' - 3 1/8"
Rain water	6"	1' - 10 13/32"
VENT	2"	32' - 5 7/32"
VENT	3"	19' - 6 13/32"
VENT	4"	46' - 11 9/16"
Grand total: 658		6986' - 4 15/32"

Mechani	cai Equipment Schedule	
Family	Manufacturer	Count
Access Panel		4
PUMP		1
Water Tank_20000ltr	Sintex	5
Grand total: 10		10

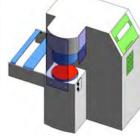
Lighting Fixture Schedule								
Family and Type	Description	WATTS	Lumens	Count				
P1-4: P1 4'	Pendant/cable hung single lamp TL5 high output fluorescent luminaire, nominal 75% indirect/25% direct liminaire, minimum 90% efficient, nominal 175mm X 50mm X 1220mm steel housing, semi specular clear high efficiency parabolic louver, baked white enamel finish, integral 0-10V dimming or DALI ballast, mounting height(s) as shown on plans.	60 W	4400	11				
P1-8: P1 8'	Pendant/cable hung single lamp TL5 high output fluorescent luminaire, nominal 75% indirect/25% direct luminaire, minimum 90% efficient, nominal 175mm X 50mm X 2440mm steel housing, semi specular clear high efficiency parabolic louver, baked white enamel finish, integral 0-10V dimming or DALI ballast, mounting height(s) as shown on plans.		4400	4				
R1: R1	Wall recessed LED steplight for outdoor wet locations.	6 W		14				
S1: S1	Surface mounted solid state lensed adjustable graze-light, nominal 71mm X 84mm X 610mm aluminum extrusion housing, integral driver, 10° X 60° distribution, electronic low-voltage (reverse phase) dimming, length(s) and mounting height(s) as shown on plans. Luminaire to be well shielded to eliminate glare potential. Coordinate color temperature with ambient sources.	30 W	550	5				
S3: S3	Ceiling Surface mounted single lamp TL5 high output fluorescent luminaire, direct distribution, minimum 78% efficient, nominal Width 300mm X Height 100 mm X Length 1200mm steel housing, 96% reflective white painted reflector, micro-prismatic frosted acrylic lens, white powder coated housing finish, integral 0-10V dimming or DALI ballast.	60 W	4400	8				

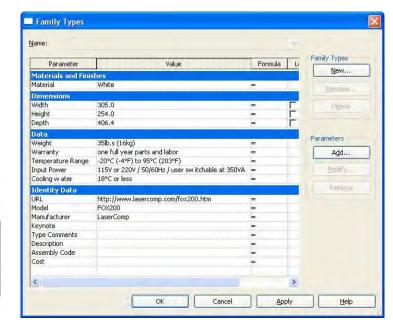
SOLAR PANELS							
Type	Area	Cost	Comments				
Solar Panel	67.384 m <sup>2</sup>		Solar Panels				

WINDOW SCHEDULE							
Type	Width	Height	Area	Count	Comments		
B/W1	4092	1495	6.117 m <sup>2</sup>	1			
G/W1	1157	1171	10.842 m <sup>2</sup>	8			
F/W1	2000	2212	13.272 m <sup>2</sup>	3			
F/W2	3009	2212	26.624 m <sup>2</sup>	4			
F/W3	2909	1476	8.587 m <sup>2</sup>	2			
F/W4	398	2200	0.876 m <sup>2</sup>	1			
F/W5	2909	574	3.339 m <sup>2</sup>	2			
S/W1	3009	1612	19.402 m <sup>2</sup>	4			
S/W2	1320	350	3.234 m <sup>2</sup>	7			
R/W1	1319	450	5.342 m <sup>2</sup>	9			
irand total: 41			97.634 m <sup>2</sup>	41			









Fox50 with AutoFeeder



