

Quanti-Mate Professional Sample							
Quanti-Quote							
Trewint							
Main St							
Shap							
Cumbria							
CA10 3NH							
Tel 01931 716810							
QuantiMate Aided:- Material Quantities For Title :- BURBHOU1							
The quantities shown are believed to be correct on the basis of the drawings provided by you and no responsibility can be accepted for their sufficiency or otherwise. It is the customers responsibility to verify quantities suggested. We cannot accept liability for any consequential costs. Our responsibility is limited to the delivery of the materials as ordered by you.							
ITEM SUMMARY OF CONSTRUCTION							
Title :- BURBHOU1 Date :- 22/01/2005							
DETACHED CAVITY RENDER FINISHED							
RECTANGULAR OUTLINE							
EXT DIMS 7.30M X 8.16M (23 ' 11 " X 26 ' 9 ")							
EXT FOUNDATIONS 1000mm deep X 600mm wide X 225mm thick							
INT FOUNDATIONS 1000mm deep X 450mm wide X 225mm thick LENGTH = 19.2 M							
ROOF 40 DEGREES GABLE / GABLE RIDGE PARALLEL WITH 7.30M EXTERNAL DIMENSION							
ROOF EAVES OVERHANG OF 200mm							
STANDARD HORIZONTAL ROOF INSULATION							
CONSTRUCTED USING TRUSSES WITH 2 DORMER ROOF(S)							
DORMERS CLAD IN PLAIN HANGING TILES							
DRAINS CALCULATED BY MANUAL MEASUREMENT							
TIMBER STUDWORK							
EXTERNAL SKIN PLASTERED							
INTERNAL BLOCK PARTITIONS PLASTERED							
SCREEDED INSULATED STYLE GROUND FLOOR							
ON FLOOR SLAB THICKNESS 100 mm							
SCREED THICKNESS 50 mm							
CENTRALLY HEATED							
INCLUDES 2 CUPBOARD(S)							
Accommodation Downstairs							
Living Room 3600 mm X 3800 mm 11' 9" X 12' 5"							
Kitchen 3040 mm X 5600 mm 9' 11" X 18' 4"							
Study 2600 mm X 2900 mm 8' 6" X 9' 6"							
Cloakroom 1200 mm X 1500 mm 3' 11" X 4' 11"							
Hall 3504 mm X 3504 mm 11' 5" X 11' 5"							
Garage 2640 mm X 5000 mm 8' 7" X 16' 4"							
Accommodation Upstairs							
Landing 2809 mm X 2809 mm 9' 2" X 9' 2"							
Bedroom 1 4149 mm X 4149 mm 13' 7" X 13' 7"							
Bedroom 2 3600 mm X 3600 mm 11' 9" X 11' 9"							
Bedroom 3 3040 mm X 3600 mm 9' 11" X 11' 9"							
Bedroom 4 3379 mm X 3379 mm 11' 1" X 11' 1"							
Main Bathroom 3600 mm X 2000 mm 11' 9" X 6' 6"							
Shower Room 2454 mm X 2454 mm 8' 0" X 8' 0"							
Landing 2531 mm X 2531 mm 8' 3" X 8' 3"							
ITEM 1 GROUNDWORKS							
Note :- Ground assumed to be reasonably level							
Ext. Foundations--- 1000 mm deep 600mm wide X 225mm thick							
Int. Foundations--- 1000 mm deep 450mm wide X 225mm thick							
Vegetation strip oversite							
M3	8.5	15	M3	127.5	85	127.5	

Foundation spoil	M3	27.1	15	M3	406.5	271	406.5
1.3.6 mix concrete	M3	6.1	38	M3	231.8	61	0
Optional site mixed quantities							
Ballast	Tonnes	11	20	Tonne	220	110	0
Portland cement	Bags	50	3.9	Bag	195	250	0
Oversite materials based on :-							
150mm thick aggregate							
25mm Blinding							
Concrete 100mm thick							
20mm aggregate	Tonnes	11.4	20	Tonne	228	114	0
Blinding material	Tonnes	1.9	20	Tonne	38	19	0
Polythene damp membrane	M2	57	1	M2	57	57	0
1.2.4 mix concrete	M3	5.2	43	M3	223.6	26	0
External soil backfill	M3	3.3	15	M3	49.5	33	49.5
Optional site mixed quantities							
Ballast	Tonnes	9.3	20	Tonne	186	93	0
Portland cement	Bags	64	3.9	Bag	249.6	320	0
ITEM 2 BRICK SUMMARY OF ITEMS 3 - 8							
		Qty	Price	Per	Cost	Labour	Plant
Facing bricks 215 X 65		517	360	1000	186.12	82.72	5.17
Foundation blocks 100mm 440 X 215		443	6.6	10	292.38	29.24	0
Foundation blocks 100mm 440 X 215		176	6.6	10	116.16	11.62	0
External wall blocks 100mm 440 X 215		1555	8.7	10	1352.85	104.19	155.5
Internal wall blocks 100mm 440 X 215		1555	8.7	10	1352.85	933	155.5
Room partition blocks 100mm 440 X 215		676	8.7	10	588.12	270.4	67.6
Garage Partition blocks 200 440 X 215		188	14.75	10	277.3	94	18.8
Builders soft sand	Tonnes	14.5	16	Tonne	232	72.5	14.5
Portland cement (25kg)	Bags	44	3.9	Bag	171.6	220	0
Masonry cement (25kg)	Bags	120	3.9	Bag	468	600	0
Tri Gal Wall Ties (250)		503	18	250	36.22	0	0
Cavity insulation area	M2	156	18.5	13.1	220.31	0	0
External render area	M2	156	15	M2	2340	1560	156
Rendering sand	Tonnes	5.1	16	Tonne	81.6	25.5	5.1
Portland cement (25kg)	Bags	27	3.9	Bag	106.86	137	0
Internal skin plaster area	M2	156	10	M2	1559	935.4	0
Internal blockwork plaster area	M2	136	10	M2	1357	814.2	0
Internal studwork plaster area	M2	101	10	M2	1012	404.8	101.2
Carlite Browning Plaster (25kg)	Bags	84	3.9	Bag	327.6	420	0
Multi Finish Plaster (25kg)	Bags	28	3.9	Bag	109.2	140	0
Board finish Plaster (25kg)	Bags	9	3.9	Bag	35.1	45	0
Fibre Tape self adhesive	M	137	2.8	90	4.26	0	0
Underfloor insulation area	M2	54	3.4	M2	183.6	16.2	0
Polystyrene area 100mm	M2	54	1	M2	54	5.4	0
Polystyrene area 25mm	M2	10	1	M2	10	1	0
Separation membrane area	M2	54	1	M2	54	5.4	0
Internal floor screed area	M2	54	8	M2	432	162	0
Sharp sand	Tonnes	4.8	16	Tonne	76.8	24	4.8
Portland cement (25kg)	Bags	32	3.9	Bag	126.36	162	0
9.5mm plywood	M2	4	15	M2	55.5	37	3.7
Window only area	M2	14.5	5	M2	72.5	29	0
Mortar plasticiser	Litres	20	4.5	5	18	0	0
100mm DPC (30M roll)	M	87	2.8	30	8.12	0	0
150mm DPC (30M Rolls)	M	72	4.3	30	10.32	0	0
Thermal cavity closer	M	50			-----	0	0
External door frame 1981 X 838		1	47.85	Each	47.85	15	0
Single garage door frame		1	41.25	Each	41.25	17	0
Frame ties		78	14.5	100	11.31	1.56	0
Ext door lintel No. 1 1200		1	19.33	Each	19.33	0	0
Int door lintel 1200		6	3	Each	18	0	0
Tile batten 19 X 38	M	53	20	100	10.6	2.12	0
Breather membrane	M2	4	3.9	M2	15.6	20	0
Plain hanging tiles 265 x 165		1	232	3.9	Each	904.8	1160
Plain tile & half		1	37	3.9	Each	144.3	185
Plain eaves & top tiles		1	55	3.9	Each	214.5	275

Lead Soakers	M	4	3.9	M	15.6	20	0
Dormer Insulation Area	M2	4	3.9	M2	14.43	18.5	0
ITEM 4 GROUND FLOOR							
		Qty	Price	Per	Cost	Labour	Plant
P/Door frame Living Room 1500 X 2100		1	60	Each	60	20	0
Window Living Room 3060 X 1350		1			-----	20	0
Window Kitchen 1770 X 1050		1			-----	20	0
Window Study 1200 X 1200		1			-----	20	0
Window Cloakroom 630 X 1050		1			-----	20	0
P/Door frame Hall 1200 X 2100		1	60	Each	60	20	0
Window lintel Living Room 3600		1	82.51	Each	82.51	0	0
Concrete cill Living Room 3600		1	13.76	Each	13.76	0	0
Window lintel Living Room 1800		1	30.63	Each	30.63	0	0
Concrete cill Living Room 1800		1	3.62	Each	3.62	0	0
Window lintel Kitchen 2100		1	35.71	Each	35.71	0	0
Concrete cill Kitchen 2100		1	8.03	Each	8.03	0	0
Window lintel Study 1500		1	25.02	Each	25.02	0	0
Concrete cill Study 1500		1	3.01	Each	3.01	0	0
Window lintel Cloakroom 1050		1	16.87	Each	16.87	0	0
Concrete cill Cloakroom 1050		1	2.42	Each	2.42	0	0
Window lintel Hall 1500		1	25.02	Each	25.02	0	0
Single Garage door lintel 2550		1	45.08	Each	45.08	0	0
ITEM 5 1st FLOOR							
		Qty	Price	Per	Cost	Labour	Plant
Window Landing 1200 X 750		1			-----	20	0
R/Light Bedroom 1 540 X 700		1			-----	10	0
Window Bedroom 1 1200 X 1050		1			-----	20	0
Window Bedroom 2 1770 X 1050		1			-----	20	0
Window Bedroom 3 1770 X 1050		1			-----	20	0
Window Bedroom 4 1200 X 1050		1			-----	20	0
Window Main Bathroom 630 X 900		1			-----	20	0
Window Shower Room 1200 X 1050		1			-----	20	0
R/Light Landing 540 X 700		1			-----	10	0
Window lintel Landing 1500		1	25.02	Each	25.02	0	0
Concrete cill Landing 1500		1	3.01	Each	3.01	0	0
Window lintel Bedroom 2 2100		1	35.71	Each	35.71	0	0
Concrete cill Bedroom 2 2100		1	8.03	Each	8.03	0	0
Window lintel Bedroom 3 2100		1	35.71	Each	35.71	0	0
Concrete cill Bedroom 3 2100		1	8.03	Each	8.03	0	0
Window lintel Bedroom 4 1500		1	25.02	Each	25.02	0	0
Concrete cill Bedroom 4 1500		1	3.01	Each	3.01	0	0
Window lintel Main Bathroom 1050		1	16.87	Each	16.87	0	0
Concrete cill Main Bathroom 1050		1	2.42	Each	2.42	0	0
ITEM 9 ROOF TILING							
		Qty	Price	Per	Cost	Labour	Plant
TILE COLOUR..... TYPE Slate 500 X 250							
Tiled roof area =	M2	86	65	100	55.9	2.58	0
Slate 500 X 250							
Tiles 500 X 250		1397	65	100	908.05	838.2	0
Tile & Half 500 X 250		94	50	100	47	23.5	0
Eaves tile 500 X 250		81	27.5	100	22.28	20.25	0
Top tile 500 X 250		100	27.5	100	27.5	25	0
Ridge tiles 450mm long		28	222	100	62.16	28	0
Lead to valley	M	10	0.9	M	9	5	0
Eaves crossflow vents		34	1.7	Each	57.12	33.6	0
Undercloak	M	29	0.9	M	26.1	14.5	0
Roofing felt	M	130	12	15	104	8.67	0
Tile batten 25 X 38	M	462	20	100	92.4	18.48	0
Lead flashing	M	11	0.9	M	9.9	5.5	0
ITEM 10 UNDERGROUND DRAINAGE							
		Qty	Price	Per	Cost	Labour	Plant
Note :- Ground assumed to be reasonably level							
Excavation depth of main runs is assumed to be .8 deep							

Excavation depth of outfall is assumed to be .8 deep							
Drainage spoil	M3	29.2	15	M3	438	292	438
Drainage backfill	M3	17.6	15	M3	264	176	264
100mm P/E pipe plastic	M	78	1	M	78	78	0
100mm S/E bend plastic	each	11	1	each	11	11	0
100mm S/E Rest Bend plastic	each	2	1	each	2	2	0
100mm Coupler plastic	each	26	1	each	25.5	25.5	0
100mm P/E Bottle gully plastic	each	6	1	each	6	6	0
100mm Inspector Chamber 600 plast	each	4	1	each	4	4	0
100mm Inspection Cover plastic	each	4	1	each	4	4	0
100mm Manhole 900 plastic	each	1	1	each	1	1	0
100mm Manhole Cover plastic	each	1	1	each	1	1	0
Based on 300mm pipe bedding/fill							
Pipe Bedding	Tonnes	11.4	20	Tonne	228	114	0
Lean mix concrete	M3	1.1	38	M3	41.8	11	0
ITEM 15 JOISTS							
			Qty	Price	Per	Cost	Labour
GROUND FLOOR JOISTS							
CALCULATIONS BASED ON 400mm CENTRES							
JOIST HANGERS & STRAPS (max 2 metre centres)							
UPPER FLOOR JOISTS							
CALCULATIONS BASED ON 400mm CENTRES							
Sawn 47 X 195 11 / 3.9	M	42.9	6.29	M	269.84	0	0
Sawn 47 X 195 14 / 3.3	M	46.2	6.29	M	290.6	0	0
Sawn 47 X 195 8 / 3.3	M	26.4	6.29	M	166.06	0	0
Sawn 47 X 195 8 / 2.4	M	19.2	6.29	M	120.77	0	0
Sawn 47 X 195 7 / 1.5	M	10.5	6.29	M	66.05	0	0
Sawn 47 X 195 3 / 1.5	M	4.5	6.29	M	28.31	0	0
Sawn 47 X 195 4 / 1.2	M	4.8	6.29	M	30.19	0	0
JOIST HANGERS & STRAPS (max 2 metre centres)							
Joist straps 1200 bent 150mm		9	2.7	Each	24.3	4.5	0
Strap noggins 50 X 100	M	10.8	120	100	12.96	3.78	0
ROOF JOISTS							
CALCULATIONS BASED ON 400mm CENTRES							
JOIST HANGERS & STRAPS (max 2 metre centres)							
ITEM 16 ROOF TIMBERS							
			Qty	Price	Per	Cost	Labour
TRUSSES MUST BE CALCULATED BY MANUFACTURER							
Summary of requirements:- based on 600mm centres							
Roof angle 40 Degrees							
Trusses span Apex 7.9 M		19			----	0	0
Rafters 50 X 125 7/1.5	M	10.5	135	100	14.18	13.65	0
Rafters 50 X 125 7/1.5	M	10.5	135	100	14.18	13.65	0
Rafters 50 X 125 7/1.5	M	10.5	135	100	14.18	13.65	0
Rafters 50 X 125 7/1.5	M	10.5	135	100	14.18	13.65	0
Ridge board 50 X 150	M	2.4	99	100	2.38	1.8	0
Ridge board 50 X 150	M	2.4	99	100	2.38	1.8	0
Roof plates 50 X 100	M	14.7	120	100	17.64	7.35	0
Roof plates 50 X 100	M	7.5	120	100	9	3.75	0
Roof plates 50 X 100	M	7.5	120	100	9	3.75	0
Valley board 25 X 150 2/1.8	M	3.6	99	100	3.56	1.62	0
Valley board 25 X 150 2/1.8	M	3.6	99	100	3.56	1.62	0
Valley board 25 X 150 2/1.8	M	3.6	99	100	3.56	1.62	0
Valley board 25 X 150 2/1.8	M	3.6	99	100	3.56	1.62	0
Lay board 25 X 150 1/1.8	M	1.8	99	100	1.78	0.81	0
Lay board 25 X 150 1/1.8	M	1.8	99	100	1.78	0.81	0
Lay board 25 X 150 1/1.8	M	1.8	99	100	1.78	0.81	0
Lay board 25 X 150 1/1.8	M	1.8	99	100	1.78	0.81	0

Fascia board 19 X 175	M	15.6	149	100	23.24	7.02	0
Fascia board 19 X 175	M	2.4	149	100	3.58	1.08	0
Fascia board 19 X 175	M	2.4	149	100	3.58	1.08	0
Barge board 19 X 150	M	22.8	130	100	29.64	10.26	0
Barge board 19 X 150	M	3	130	100	3.9	1.35	0
Barge board 19 X 150	M	3	130	100	3.9	1.35	0
Soffit strip 300 X 6	M	38.4	3	M	115.2	1536	0
Soffit strip 300 X 6	M	5.4	3	M	16.2	216	0
Soffit strip 300 X 6	M	5.4	3	M	16.2	216	0
Soffit vent 2440	M	15.6	5	2.4	32.5	3.9	0
Soffit vent 2440	M	2.4	5	2.4	5	0.6	0
Soffit vent 2440	M	2.4	5	2.4	5	0.6	0
Rafter straps 1600		12	2.7	Each	32.4	6	0
Strap noggins 50 X 100	M	18	120	100	21.6	6.3	0
Wall straps 600		7	2.7	Each	18.9	3.5	0
Ceiling joists 50 X 50 4/2.1	M	8.4	180	100	15.12	7.56	0
Ceiling joists 50 X 50 4/2.1	M	8.4	180	100	15.12	7.56	0
Longitudinal br 22 X 100	M	80.1	120	100	96.12	40.05	0
Diagonal brace 22 X 100	M	61.2	120	100	73.44	30.6	0
Diagonal ceilin 22 X 100	M	21.9	120	100	26.28	10.95	0
Truss clips		38	2.7	Each	102.6	19	0
ITEM 17 CARPENTER 1st FIX							
		Qty	Price	Per	Cost	Labour	Plant
External door 838 X 1981		1	80	Each	80	20	0
External door lock pack		1	15	Each	15	5	0
Window Board Living Room 3300	mm	3300	5.29	1000	17.46	13.2	0
Window Board Study 1500	mm	1500	5.29	1000	7.94	6	0
Window Board Landing 1500	mm	1500	5.29	1000	7.94	6	0
Window Board Bedroom 1 1500	mm	1500	5.29	1000	7.94	6	0
Window Board Bedroom 2 2100	mm	2100	5.29	1000	11.11	8.4	0
Window Board Bedroom 3 2100	mm	2100	5.29	1000	11.11	8.4	0
Window Board Bedroom 4 1500	mm	1500	5.29	1000	7.94	6	0
Patio door Living Room 1500 X 2100		1			----	60	0
Patio door Hall 1200 X 2100		1			----	60	0
Door liner		3	15	Each	45	30	0
Fire door frame		8	300	Each	2400	480	0
Door liner CUPBOARD		2	15	Each	30	20	0
Door liner AIR/CUPBOARD		1	15	Each	15	10	0
Loft hatch liner		1	12	Each	12	12	0
Staircase		2	300	Each	600	120	0
Herringbone 38 X 50	M	40	42.5	100	17	14	0
Edge noggins 50 X 50	M	106.5	120	100	127.8	37.28	0
Floor area down	M2	52			----	0	0
Floor area 1st	M2	50			----	0	0
Floor area 2nd	M2	30			----	0	0
Upper floor acoustic area	M2	67	10	M2	668	0	0
Chipboard t&g 2400 X 600 X 18		60	6.8	Each	408	60	0
Chipboard Adhesive	Litre	4	300	Litre	1260	252	0
P/Board noggins 50 X 50	M	76	67	100	50.92	38	0
Wallboard 2400 X 1200 X 12.5		58	6.5	Each	377	174	0
Fibreglass 150mm	M2	53	5	M2	265	26.5	0
Fibreglass 100mm	M2	53	5	M2	265	26.5	0
Celotex area to garage 90mm	M2	14	1	M2	14	1.4	0
Celotex area to skilling 50mm	M2	19	1	M2	18.6	1.86	0
Celotex area to skilling 60mm	M2	19	1	M2	18.6	1.86	0
Studwork at 450 mm centres							
Wallboard 2400 X 1200 X 12.5		32	6.5	Each	208	96	0
Fibreglass 100mm	M2	35	4.5	M2	156.15	17.35	0
Fibreglass area to studs 100mm	M2	14	1	M2	14	1.4	0
Stud 50 X 100 60/2.4	M	144	120	100	172.8	108	0
Studwork plate 50 X 100	M	43	120	100	51.6	32.25	0
Studwork noggin 50 X 100	M	10	120	100	12	7.5	0
Board finish Plaster (25kg)	Bags	17	3.9	Bag	66.3	85	0
Fibre Tape self adhesive	M	234	2.8	90	7.28	0	0
Single garage door 2134 X 2134		1	135	Each	135	25	0
ITEM 18 CARPENTER 2nd FIX							
		Qty	Price	Per	Cost	Labour	Plant
Internal doors 762 X 1981		3	27	Each	81	60	0
Internal Fire door 762 X 1981		8	27	Each	216	160	0
A/Cupboard door 762 X 1981		1	27	Each	27	12	0
Cupboard door 762 X 1981		2	27	Each	54	24	0

Passage door furniture sets		8	12	Each	96	40	0
Cupboard door furniture sets		3	12	Each	36	15	0
Bathroom door furniture sets		3	19	Each	57	15	0
Loft hatch		1	13	Each	13	5	0
Architrave 19 X 50	M	140.4	49.18	100	69.05	42.12	0
Skirting 19 X 100	M	170.1	91	100	154.79	85.05	0
Bath frame 38 X 50	M	7.2	53.79	100	3.87	3.24	0
Pipe casing 38 X 50	M	60	54	100	32.4	27	0
A/Cupboard shel 19 X 50	M	19.2	50	100	9.6	8.64	0
ITEM 20 GUTTER							
		Qty	Price	Per	Cost	Labour	Plant
NOTE:- The size and style of gutter is subject to flow rates required							
BASED ON 2 RAINWATER OUTLETS							
Colour..... Type.....							
Gutter	M	21	5.5	4	28.88	26.25	0
Gutter support brackets		21	0.45	Each	9.45	4.2	0
Gutter joiner brackets		2	1	Each	2	0.6	0
End stops		12	0.8	Each	9.6	3.6	0
Running outlets		6	2	Each	12	2.4	0
Downpipe 5.50M		2	7.8	Each	15.6	10	0
Pipe clips		8	0.8	Each	6.4	4	0
Pipe ofsets		8	1.2	Each	9.6	2.4	0
Pipe shoe		4	1.2	Each	4.8	1.6	0
ITEM 27 SANITARY WARE							
		Qty	Price	Per	Cost	Labour	Plant
CLOAKROOM SANITARY WARE Colour.....							
W.C Pan washdown		1	45	Each	45	10	0
W.C Cistern		1	75	Each	75	10	0
W.C Seat and cover		1	32	Each	32	5	0
Basin 365 X 225		1	29	Each	29	25	0
Hanging brackets	Pair	1	2	Pair	2	2	0
Basin taps 1/2in	Pair	1	37	Pair	37	4	0
Basin waste plug & chain 1 1/4in		1	2.7	Each	2.7	4	0
MAIN BATHROOM SANITARY WARE Colour.....							
W.C Pan		1	45	Each	45	15	0
W.C Cistern		1	75	Each	75	10	0
W.C Seat and cover		1	32	Each	32	5	0
Basin 560 X 405		1	38	Each	38	25	0
Basin pedestal		1	32	Each	32	10	0
Basin taps 1/2in	Pair	1			-----	5	0
Basin waste plug & chain 1 1/4in		1	2.7	Each	2.7	4	0
Bath 1700 X 700		1	110	Each	110	30	0
Bath side panel		1	17	Each	17	5	0
Bath end panel		1	11	Each	11	5	0
Bath waste plug & chain 1 1/2in		1	3.95	Each	3.95	5	0
Bath mixer tap	Pair	1	83	Pair	83	7	0
Shower tray 760 X 760		1	55	Each	55	30	0
Shower unit		1	105	Each	105	25	0
Bidet		1	120	Each	120	25	0
Bidet mixer		1	59	Each	59	15	0
SHOWER ROOM SANITARY WARE Colour.....							
W.C Pan		1	45	Each	45	15	0
W.C Cistern		1	75	Each	75	10	0
W.C Seat and cover		1	32	Each	32	5	0
Basin 560 X 405		1	38	Each	38	25	0
Basin pedestal		1	32	Each	32	10	0
Basin taps 1/2in	Pair	1	23	Pair	23	5	0
Basin waste plug & chain 1 1/4in		1	2.7	Each	2.7	4	0
Shower tray 760 X 760		1	55	Each	55	35	0
Shower unit		1	105	Each	105	40	0
KITCHEN							
Kitchen equipment not included as these items are subject to design criteria							

ITEM 28 CENTRAL HEATING							
		Qty	Price	Per	Cost	Labour	Plant
Calculations based on outside air temperature of -1 Celsius							
1½ Air changes per hour							
20% Heat loss in pipework in extreme weather							
Bed Rooms cloakroom hall & landing at 16 Celsius							
Other rooms at 21 Celsius							
Storage tank 70/50		1	38	Each	38	15	0
Tank lid 70/50		1	13.5	Each	13.5	2	0
Tank Insulation 70/50		1	7.3	Each	7.3	5	0
Type 2 ball valve		1	4.5	Each	4.5	5	0
Ball float		1	0.45	Each	0.45	0.5	0
Storage tank 10/4		1	4.5	Each	4.5	10	0
Tank lid 10/4		2	2.5	Each	5	4	0
Tank Insulation 10/4		2	4.5	Each	9	4	0
Cylinder indire 900 x 450		1	85	Each	85	20	0
Room thermostat		1	11	Each	11	7	0
Cylinder thermostat		1	5.8	Each	5.8	5	0
Immersion heater		1	17	Each	17	3	0
Motorized valve H/Water		1	25	Each	25	5	0
Motorised valve C/Heating		1	25	Each	25	5	0
Programmer		1	45	Each	45	25	0
Pump		1	37	Each	37	5	0
Pump isolator valves		1	1.1	Each	1.1	5	0
Automatic air bleed		1	2.7	Each	2.7	3	0
HEATING FOR SHELTERED CONDITIONS							
ROOM	HEAT REQ (KW)	RADIATOR					
Living Room	1.48		1	----		22	0
Kitchen	1.11		1	----		22	0
Study	.73		1	----		22	0
Cloakroom	.18		1	----		22	0
Hall	.66		1	----		22	0
Landing	.35		1	----		22	0
Bedroom 1	.62		1	----		22	0
Bedroom 2	.52		1	----		22	0
Bedroom 3	.47		1	----		22	0
Bedroom 4	.45		1	----		22	0
Main Bathroom	.86		1	----		22	0
Shower Room	.6		1	----		22	0
Landing	.45		1	----		22	0
H/W CYLINDER	3.0 Kw						
Pipe loss @ 15% Kw			1.7		----	85	0
Boiler size Kw			13.2		----	660	0
Radiator valves		Pairs	13	3.3 Pair	42.9	26	0
SUNDRY ITEMS NOT CALCULATED							
Structural steels							
Fixings							
Nails							
Screws							
Glass & Putty							
Decorative materials							
Wall tiles							
Electrical components							
External drives and paths							
Underground pipes							
Soil pipes							
Waste pipes							
Copper tube							
Copper fittings							
Lead flashings							
Patio slabs							
Fencing							