

EST NUMBER: WEB15250
RUN DATE.: 08/05/09 08:45am
DATA DATE.: SEPT 2009

MECHANICAL INSULATION ESTIMATE
ANYTOWN, ANYWHERE
ESTIMATE SUMMARY

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
PAGE: 1

DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
ELEMENTARY SCHOOL	1,666.2	63,361	48,279	0	0	111,640
*** TOTAL ESTIMATED COST ***	1,666.2	63,361	48,279	0	0	111,640

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MECHANICAL INSULATION ESTIMATE
ANYTOWN, ANYWHERE
ELEMENTARY SCHOOL SUMMARY - ELEMENTARY SCHOOL

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
PAGE: 2

DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL	1,666.2	63,361	48,279	0	0	111,640
*** ELEMENTARY SCHOOL ESTIMATED COST ***	1,666.2	63,361	48,279	0	0	111,640

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MECHANICAL INSULATION ESTIMATE
ANYTOWN, ANYWHERE
MECHANICAL SUMMARY - ELEMENTARY SCHOOL

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
PAGE: 3

DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL INSULATION	1,666.2	63,361	48,279	0	0	111,640
*** MECHANICAL ESTIMATED COST ***	1,666.2	63,361	48,279	0	0	111,640

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MECHANICAL INSULATION ESTIMATE
ANYTOWN, ANYWHERE
MECHANICAL INSULATION SUMMARY - ELEMENTARY SCHOOL

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
PAGE: 4

DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
DOMESTIC COLD WATER INSULATION	366.0	13,697	9,542	0	0	23,239
DOMESTIC HOT WATER INSULATION	210.4	7,876	5,529	0	0	13,405
ROOF DRAINAGE INSULATION	217.1	8,126	5,496	0	0	13,622
CONDENSATE DRAIN PIPING INSULATION	143.4	5,366	4,364	0	0	9,730
HEAT PUMP WATER PIPING SYSTEM	558.6	21,908	18,905	0	0	40,813
HOT WATER INSULATION	91.2	3,414	1,991	0	0	5,405
GENERATOR EXHAUST INSULATION	10.5	393	689	0	0	1,082
REFRIGERANT PIPING SYSTEM INSULATION	69.0	2,581	1,763	0	0	4,344
*** MECHANICAL INSULATION ESTIMATED COST ***	1,666.2	63,361	48,279	0	0	111,640

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
DOMESTIC COLD WATER INSULATION													
2 1/2" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	140	Lin Ft	0.07	9.8	37.43	367	1.87	262	0	0	0	0	629
3" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	400	Lin Ft	0.04	16.0	37.43	599	1.66	664	0	0	0	0	1,263
4" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	300	Lin Ft	0.089	26.7	37.43	999	2.17	651	0	0	0	0	1,650
1/2" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	910	Lin Ft	0.06	54.6	37.43	2,044	1.26	1,147	0	0	0	0	3,191
3/4" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	1,265	Lin Ft	0.06	75.9	37.43	2,841	1.44	1,822	0	0	0	0	4,663
1" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	245	Lin Ft	0.06	14.7	37.43	550	1.85	453	0	0	0	0	1,003
1" Pipe Insulation - 1" Thick Fiberglass w/ASJ	75	Lin Ft	0.06	4.5	37.43	168	1.85	139	0	0	0	0	307
1 1/2" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	10	Lin Ft	0.07	0.7	37.43	26	1.84	18	0	0	0	0	44
2" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	855	Lin Ft	0.07	59.9	37.43	2,242	1.99	1,701	0	0	0	0	3,943
2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	125	Lin Ft	0.07	8.8	37.43	329	2.35	294	0	0	0	0	623
2 1/2" 90 Degree Fiberglass Fitting w/ASJ - 1/2" Thick Insulation	2	Each	0.21	0.4	37.43	15	5.62	11	0	0	0	0	26
3" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	26	Each	0.24	6.2	37.43	232	6.24	162	0	0	0	0	394
1/2" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	119	Each	0.18	21.4	37.43	801	3.79	451	0	0	0	0	1,252
3/4" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	91	Each	0.128	11.6	37.43	434	2.88	262	0	0	0	0	696
1" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	48	Each	0.18	8.6	37.43	322	5.56	267	0	0	0	0	589
1" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	6	Each	0.18	1.1	37.43	41	5.56	33	0	0	0	0	74
2" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	32	Each	0.21	6.7	37.43	251	5.96	191	0	0	0	0	442
2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	9	Each	0.21	1.9	37.43	71	7.05	63	0	0	0	0	134
3" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	4	Each	0.252	1.0	37.43	37	5.1	20	0	0	0	0	57
1/2" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	28	Each	0.18	5.0	37.43	187	3.79	106	0	0	0	0	293
3/4" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	22	Each	0.18	4.0	37.43	150	4.31	95	0	0	0	0	245
1" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	8	Each	0.18	1.4	37.43	52	5.56	44	0	0	0	0	96
1" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	2	Each	0.18	0.4	37.43	15	5.56	11	0	0	0	0	26
2" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	13	Each	0.21	2.7	37.43	101	5.96	77	0	0	0	0	178
2" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	4	Each	0.21	0.8	37.43	30	7.05	28	0	0	0	0	58
2 1/2" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	1	Each	0.35	0.4	37.43	15	9.36	9	0	0	0	0	24
1/2" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	10	Each	0.3	3.0	37.43	112	6.31	63	0	0	0	0	175

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3/4" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	13	Each	0.3	3.9	37.43	146	7.18	93	0	0	0	0	239
1" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	17	Each	0.3	5.1	37.43	191	9.27	158	0	0	0	0	349
1 1/2" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	1	Each	0.35	0.4	37.43	15	9.22	9	0	0	0	0	24
2" Valve Jacket Fiberglass w/ASJ 1/2" Thick Insulation	24	Each	0.35	8.4	37.43	314	9.93	238	0	0	0	0	552
*** DOMESTIC COLD WATER INSULATION ESTIMATED COST ***				366.0		13,697		9,542		0		0	23,239
DOMESTIC HOT WATER INSULATION													
1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	480	Lin Ft	0.06	28.8	37.43	1,078	0.158	76	0	0	0	0	1,154
3/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	1,090	Lin Ft	0.06	65.4	37.43	2,448	1.73	1,886	0	0	0	0	4,334
1" Pipe Insulation - 1" Thick Fiberglass w/ASJ	530	Lin Ft	0.06	31.8	37.43	1,190	1.85	981	0	0	0	0	2,171
1 1/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	130	Lin Ft	0.06	7.8	37.43	292	2	260	0	0	0	0	552
1 1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	55	Lin Ft	0.07	3.9	37.43	146	2.16	119	0	0	0	0	265
2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	400	Lin Ft	0.07	28.0	37.43	1,048	2.35	940	0	0	0	0	1,988
1/2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	72	Each	0.18	13.0	37.43	487	4.47	322	0	0	0	0	809
3/4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	36	Each	0.18	6.5	37.43	243	5.19	187	0	0	0	0	430
1" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	20	Each	0.18	3.6	37.43	135	5.56	111	0	0	0	0	246
1 1/4" 90 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	3	Each	0.18	0.5	37.43	19	6.01	18	0	0	0	0	37
2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	20	Each	0.21	4.2	37.43	157	7.05	141	0	0	0	0	298
1/2" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	14	Each	0.18	2.5	37.43	94	4.74	66	0	0	0	0	160
3/4" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	10	Each	0.18	1.8	37.43	67	5.19	52	0	0	0	0	119
1" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	10	Each	0.18	1.8	37.43	67	5.56	56	0	0	0	0	123
1 1/4" 45 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	1	Each	0.18	0.2	37.43	7	6.01	6	0	0	0	0	13
2" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	6	Each	0.21	1.3	37.43	49	7.05	42	0	0	0	0	91
1/2" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	8	Each	0.3	2.4	37.43	90	7.9	63	0	0	0	0	153
3/4" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	16	Each	0.3	4.8	37.43	180	8.65	138	0	0	0	0	318
1" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	7	Each	0.3	2.1	37.43	79	9.27	65	0	0	0	0	144
*** DOMESTIC HOT WATER INSULATION ESTIMATED COST ***				210.4		7,876		5,529		0		0	13,405

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS					
ROOF DRAINAGE INSULATION													
3" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	220	Lin Ft	0.04	8.8	37.43	329	1.66	365	0	0	0	0	694
4" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	20	Lin Ft	0.089	1.8	37.43	67	2.17	43	0	0	0	0	110
6" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	1,395	Lin Ft	0.107	149.3	37.43	5,588	2.64	3,683	0	0	0	0	9,271
8" Pipe Insulation - 1/2" Thick Fiberglass w/ASJ	120	Lin Ft	0.133	16.0	37.43	599	3.45	414	0	0	0	0	1,013
3" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	11	Each	0.24	2.6	37.43	97	6.24	69	0	0	0	0	166
4" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	4	Each	0.267	1.1	37.43	41	6.51	26	0	0	0	0	67
6" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	62	Each	0.321	19.9	37.43	745	7.92	491	0	0	0	0	1,236
8" 90 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	5	Each	0.532	2.7	37.43	101	10.35	52	0	0	0	0	153
3" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	10	Each	0.252	2.5	37.43	94	5.1	51	0	0	0	0	145
4" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	6	Each	0.267	1.6	37.43	60	6.51	39	0	0	0	0	99
6" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	32	Each	0.321	10.3	37.43	386	7.92	253	0	0	0	0	639
8" 45 Degree Fiberglass Fitting w/ASJ 1/2" Thick Insulation	1	Each	0.532	0.5	37.43	19	10.35	10	0	0	0	0	29
*** ROOF DRAINAGE INSULATION ESTIMATED COST ***				217.1		8,126		5,496		0		0	13,622
CONDENSATE DRAIN PIPING INSULATION													
3/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	649	Lin Ft	0.06	38.9	37.43	1,456	1.73	1,123	0	0	0	0	2,579
1" Pipe Insulation - 1" Thick Fiberglass w/ASJ	509	Lin Ft	0.06	30.5	37.43	1,142	1.85	942	0	0	0	0	2,084
1 1/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	283	Lin Ft	0.06	17.0	37.43	636	2	566	0	0	0	0	1,202
1 1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	20	Lin Ft	0.07	1.4	37.43	52	2.16	43	0	0	0	0	95
3/4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	99	Each	0.18	17.8	37.43	666	5.19	514	0	0	0	0	1,180
1" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	114	Each	0.18	20.5	37.43	767	5.56	634	0	0	0	0	1,401
1 1/4" 90 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	36	Each	0.18	6.5	37.43	243	6.01	216	0	0	0	0	459
3/4" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	33	Each	0.18	5.9	37.43	221	5.19	171	0	0	0	0	392
1" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	17	Each	0.18	3.1	37.43	116	5.56	95	0	0	0	0	211
1 1/4" 45 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	10	Each	0.18	1.8	37.43	67	6.01	60	0	0	0	0	127
*** CONDENSATE DRAIN PIPING INSULATION ESTIMATED COST ***				143.4		5,366		4,364		0		0	9,730

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
HEAT PUMP WATER PIPING SYSTEM													
2 1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	247	Lin Ft	0.07	17.3	37.43	648	2.67	659	0	0	0	0	1,307
3" Pipe Insulation - 1" Thick Fiberglass w/ASJ	206	Lin Ft	0.08	16.5	37.43	618	2.88	593	0	0	0	0	1,211
4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	358	Lin Ft	0.08	28.6	37.43	1,070	3.77	1,350	0	0	0	0	2,420
6" Pipe Insulation - 1" Thick Fiberglass w/ASJ	357	Lin Ft	0.09	32.1	37.43	1,202	4.56	1,628	0	0	0	0	2,830
3/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	1,446	Lin Ft	0.06	86.8	37.43	3,249	1.73	2,502	0	0	0	0	5,751
1" Pipe Insulation - 1" Thick Fiberglass w/ASJ	797	Lin Ft	0.06	47.8	37.43	1,789	1.85	1,474	0	0	0	0	3,263
1 1/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	894	Lin Ft	0.06	53.6	37.43	2,006	2	1,788	0	0	0	0	3,794
1 1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	90	Lin Ft	0.07	6.3	37.43	236	2.16	194	0	0	0	0	430
2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	636	Lin Ft	0.07	44.5	37.43	1,666	2.35	1,495	0	0	0	0	3,161
2 1/2" 90 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	13	Each	0.21	2.7	37.43	101	8.02	104	0	0	0	0	205
3" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	6	Each	0.24	1.4	37.43	52	8.64	52	0	0	0	0	104
4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	13	Each	0.24	3.1	37.43	116	11.3	147	0	0	0	0	263
6" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	12	Each	0.27	3.2	37.43	120	13.68	164	0	0	0	0	284
3/4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	260	Each	0.18	46.8	37.43	1,752	5.19	1,349	0	0	0	0	3,101
1" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	82	Each	0.18	14.8	37.43	554	5.56	456	0	0	0	0	1,010
1 1/4" 90 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	159	Each	0.18	28.6	37.43	1,070	6.01	956	0	0	0	0	2,026
2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	13	Each	0.21	2.7	37.43	101	7.05	92	0	0	0	0	193
3/4" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	6	Each	0.18	1.1	37.43	41	5.19	31	0	0	0	0	72
1 1/4" 45 Degree Fiberglass Fitting w/ASJ - 1" Thick Insulation	2	Each	0.18	0.4	37.43	15	6.01	12	0	0	0	0	27
2 1/2" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	4	Each	0.35	1.4	37.43	52	13.36	53	0	0	0	0	105
3" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	2	Each	0.4	0.8	37.43	30	14.4	29	0	0	0	0	59
6" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	4	Each	0.45	1.8	37.43	67	22.79	91	0	0	0	0	158
3/4" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	67	Each	0.3	20.1	37.43	752	8.65	580	0	0	0	0	1,332
1" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	24	Each	0.3	7.2	37.43	269	9.27	222	0	0	0	0	491
1 1/4" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	44	Each	0.3	13.2	37.43	494	10.01	440	0	0	0	0	934
2" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	6	Each	0.35	2.1	37.43	79	11.76	71	0	0	0	0	150
2 1/2" Flange Jacket Fiberglass w/ASJ 1" Thick Insulation	8	Each	0.21	1.7	37.43	64	8.02	64	0	0	0	0	128

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3" Flange Jacket Fiberglass w/ASJ 1" Thick Insulation	14	Each	0.24	3.4	37.43	127	8.64	121	0	0	0	0	248
4" Flange Jacket Fiberglass w/ASJ 1" Thick Insulation	2	Each	0.24	0.5	37.43	19	11.3	23	0	0	0	0	42
6" Flange Jacket Fiberglass w/ASJ 1" Thick Insulation	30	Each	0.27	8.1	37.43	303	13.68	410	0	0	0	0	713
3/4" Hose Kits - 1" Thick Insulation	31	Each	1	31.0	54.09	1,677	25	775	0	0	0	0	2,452
1" Hose Kits - 1" Thick Insulation	7	Each	1	7.0	54.09	379	30	210	0	0	0	0	589
1 1/4" Hose Kits - 1" Thick Insulation	22	Each	1	22.0	54.09	1,190	35	770	0	0	0	0	1,960
*** HEAT PUMP WATER PIPING SYSTEM ESTIMATED COST ***				558.6		21,908		18,905		0		0	40,813
HOT WATER INSULATION													
1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	420	Lin Ft	0.06	25.2	37.43	943	0.158	66	0	0	0	0	1,009
3/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	280	Lin Ft	0.06	16.8	37.43	629	1.73	484	0	0	0	0	1,113
1" Pipe Insulation - 1" Thick Fiberglass w/ASJ	100	Lin Ft	0.06	6.0	37.43	225	1.85	185	0	0	0	0	410
2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	150	Lin Ft	0.07	10.5	37.43	393	2.35	353	0	0	0	0	746
1/2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	88	Each	0.18	15.8	37.43	591	4.47	393	0	0	0	0	984
3/4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	29	Each	0.18	5.2	37.43	195	5.19	151	0	0	0	0	346
1" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	11	Each	0.18	2.0	37.43	75	5.56	61	0	0	0	0	136
2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	7	Each	0.21	1.5	37.43	56	7.05	49	0	0	0	0	105
1/2" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	9	Each	0.18	1.6	37.43	60	4.74	43	0	0	0	0	103
3/4" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	2	Each	0.18	0.4	37.43	15	5.19	10	0	0	0	0	25
1" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	7	Each	0.18	1.3	37.43	49	5.56	39	0	0	0	0	88
2" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	4	Each	0.21	0.8	37.43	30	7.05	28	0	0	0	0	58
3/4" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	3	Each	0.3	0.9	37.43	34	8.65	26	0	0	0	0	60
1" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	6	Each	0.3	1.8	37.43	67	9.27	56	0	0	0	0	123
2" Valve Jacket Fiberglass w/ASJ 1" Thick Insulation	4	Each	0.35	1.4	37.43	52	11.76	47	0	0	0	0	99
*** HOT WATER INSULATION ESTIMATED COST ***				91.2		3,414		1,991		0		0	5,405
GENERATOR EXHAUST INSULATION													
4" Pipe Calcium Silicate w/ASJ 3" Thick Insulation	30	Lin Ft	0.22	6.6	37.43	247	14.36	431	0	0	0	0	678
4" 90 Degree Fitting Calcium Silicate 3" Thick Insulation w/ASJ	4	Each	0.66	2.6	37.43	97	43.09	172	0	0	0	0	269
4" 45 Degree Fitting Calcium Silicate 3" Thick Insulation w/ASJ	2	Each	0.66	1.3	37.43	49	43.09	86	0	0	0	0	135

EST NUMBER: WEB15250
 RUN DATE.: 08/05/09 08:45am
 DATA DATE.: SEPT 2009

MECHANICAL INSULATION ESTIMATE
 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - ELEMENTARY SCHOOL

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
 PAGE: 10

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
*** GENERATOR EXHAUST INSULATION ESTIMATED COST ***				10.5		393		689		0		0	1,082
REFRIGERANT PIPING SYSTEM INSULATION													
1/2" Pipe Insulation - 1" Thick Fiberglass w/ASJ	126	Lin Ft	0.06	7.6	37.43	284	0.158	20	0	0	0	0	304
3/4" Pipe Insulation - 1" Thick Fiberglass w/ASJ	235	Lin Ft	0.06	14.1	37.43	528	1.73	407	0	0	0	0	935
1 1/4" Pipe Insulation - 1 1/2" Thick Fiberglass w/ASJ	107	Lin Ft	0.07	7.5	37.43	281	3.41	365	0	0	0	0	646
1/2" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	18	Each	0.18	3.2	37.43	120	4.47	80	0	0	0	0	200
3/4" 90 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	23	Each	0.18	4.1	37.43	153	5.19	119	0	0	0	0	272
1 1/4" 90 Degree Fiberglass Fitting w/ASJ - 1 1/2" Thick Insulation	9	Each	0.21	1.9	37.43	71	10.24	92	0	0	0	0	163
3/4" 45 Degree Fiberglass Fitting w/ASJ 1" Thick Insulation	1	Each	0.18	0.2	37.43	7	5.19	5	0	0	0	0	12
1/2" Pipe Insulation - 1" Thick Fiberglass w/PVC Jacket	18	Lin Ft	0.12	2.2	37.43	82	2.86	51	0	0	0	0	133
3/4" Pipe Insulation - 1" Thick Fiberglass w/PVC Jacket	28	Lin Ft	0.12	3.4	37.43	127	3.14	88	0	0	0	0	215
1 1/4" Pipe Insulation - 1 1/2" Thick Fiberglass w/PVC Jacket	10	Lin Ft	0.258	2.6	37.43	97	5.59	56	0	0	0	0	153
1/2" 90 Degree Fiberglass Fitting & PVC Cover - 1" Thick Insulation	10	Each	0.36	3.6	37.43	135	8.59	86	0	0	0	0	221
3/4" 90 Degree Fiberglass Fitting & PVC Cover - 1" Thick Insulation	24	Each	0.36	8.6	37.43	322	9.42	226	0	0	0	0	548
1 1/4" 90 Degree Fiberglass Fitting & PVC Cover - 1 1/2" Thick Insulation	10	Each	1	10.0	37.43	374	16.78	168	0	0	0	0	542
*** REFRIGERANT PIPING SYSTEM INSULATION ESTIMATED COST ***				69.0		2,581		1,763		0		0	4,344