

## MATERIAL TAKEOFF AND COST ESTIMATE

# THERMAL & MOISTURE PROTECTION TAKEOFF



A & A  
ESTIMATING

YOUR TRUSTED BIDDING PARTNER

E-mail: [Info@aaestimating.com](mailto:Info@aaestimating.com)  
 Web: [www.aaestimating.com](http://www.aaestimating.com)  
 Contact:  
 QTO #  
 Update:

SR.	DRAWING	DETAIL	CSI NO	DESCRIPTION	QTY.	WASTE	TOTAL QTY.	UNIT	UNIT PRICE	TOTAL PRICE
<b>01000</b>				<b>DIVISION 01 - GENERAL REQUIREMENTS</b>						
1				General Requirements	1	0%	1	LS	\$0	\$0
<b>Subtotal</b>										
<b>07000</b>				<b>DIVISION 07 - THERMAL &amp; MOISTURE PROTECTION</b>						
<b>07110</b>				<b>SHEET MEMBRANE WATERPROOFING</b>						
2	A101	1/A301		<b>Exterior Wall Waterproofing as:</b> - Sheet membrane waterproofing applied over CMU wall - (3"Thk.) Rigid insulation	3200	5%	3360	SF	\$0	\$0
<b>07115</b>				<b>SHEET MEMBRANE WATERPROOFING</b>						
3	S101	1/A501		<b>Foundation Waterproofing as:</b> - Sheet membrane waterproofing - (2"Thk.) Rigid insulation - (1/2"Thk.) Cover board	1850	5%	1942.5	SF	\$0	\$0
<b>07120</b>				<b>FLUID-APPLIED WATERPROOFING FOR PLAZA DECKS</b>						
4	A105	1/A421		<b>Plaza Deck Roofing as:</b> - (3"Thk.) Pre-cast concrete paver - (1-1/2"Thk.) Sand bed - Fluid applied waterproofing system - Vapor barrier - Prime concrete roof deck	2600	5%	2730	SF	\$0	\$0
<b>07147</b>				<b>CRYSTALLINE WATERPROOFING</b>						
5	A101	3/A422		Crystalline waterproofing applied inside elevator / mechanical pit	800	5%	840	SF	\$0	\$0
<b>07150</b>				<b>CHEMICAL RESIN INJECTION GROUTING</b>						
6	A101	4/A530		Repair concrete wall using chemical resin injection grouting method	300	5%	315	SF	\$0	\$0
<b>07160</b>				<b>BITUMINOUS DAMPPROOFING</b>						
7	S101	1/A321		<b>Foundation Waterproofing as:</b> - Bituminous waterproofing applied over concrete foundation wall - (1/2"Thk.) Cover board	1200	5%	1260	SF	\$0	\$0
<b>07211</b>				<b>PERIMETER FOUNDATION INSULATION</b>						
8	S101	1/A421		(2"Thk.) Rigid insulation	650	5%	682.5	SF	\$0	\$0
<b>07212</b>				<b>MISCELLANEOUS BUILDING INSULATION</b>						
9	A102	6/A401		Fill cavity in (7-1/2"Thk.) roof deck w/ mineral wool insulation - R25.8	3520	5%	3696	SF	\$0	\$0
10	A201	A401		(6"Thk.) Mechanically secured rigid roof insulation - R-39	298	5%	312.9	SF	\$0	\$0
11	A102	6/A401		Cap roof deck w/ galvanized metal sheet	3520	5%	3696	SF	\$0	\$0
12	FO131	FO504		High density extruded polystyrene - C.S 20Psi	86	5%	90.3	CF	\$0	\$0
13	A801 - A803	1/A602		(6"Thk.) Batt insulation above ceiling	6500	5%	6825	SF	\$0	\$0
<b>07250</b>				<b>SPRAYED FIRE-RESISTIVE MATERIALS</b>						
14	A101 - A103	1/A422		(1HR.) Spray applied fireproofing over steel beam	6850	5%	7192.5	SF	\$0	\$0
15	A101 - A103	1/A422		(2HR.) Spray applied fireproofing over steel column	3600	5%	3780	SF	\$0	\$0
16	A101 - A103	1/A422		(1HR.) Spray applied fireproofing over metal deck	8500	5%	8925	SF	\$0	\$0
<b>07260</b>				<b>INTUMESCENT FIRE-RESISTANT COATING</b>						
17	A101	1/A425		(2HR.) Intumescent coating applied over exposed column	1850	5%	1942.5	SF	\$0	\$0
<b>07270</b>				<b>FIRESTOPPING / SMOKE SEALS</b>						
18				Miscellaneous firestopping / smoke seals	1	0%	1	LS	\$0	\$0

			<b>07272</b>	<b>FLUID-APPLIED MEMBRANE AIR BARRIER</b>								
19	A201	A401		Air barrier	530	5%	556.5	SF	\$0	\$0		
20	A201	A401		Vapor impermeable air barrier	296	5%	310.8	SF	\$0	\$0		
			<b>07314</b>	<b>SLATE SHINGLE ROOFING</b>								
21	A105	8/A600		<b>Slate Shingle Roofing as:</b> - Asphaltic shingle roofing - Vapor barrier / Ice & water shield - (1/2"Thk.) Exterior grade plywood sheathing	2560	5%	2688	SF	\$0	\$0		
			<b>07315</b>	<b>POLYMERIC SHINGLE ROOFING SYSTEM</b>								
22	A106	4/A320		<b>Polymeric Shingle Roofing as:</b> - PVC shingle roofing - Vapor barrier / Ice & water shield - (1/2"Thk.) Exterior grade plywood sheathing	1850	5%	1942.5	SF	\$0	\$0		
			<b>07321</b>	<b>CLAY TILE ROOFING</b>								
23	A104	2/A212		<b>Clay Tile Roofing as:</b> - Clay roof tile - (2"Thk.) Rigid insulation - Vapor barrier / Ice & water shield - (1/2"Thk.) Exterior grade plywood sheathing	1280	5%	1344	SF	\$0	\$0		
			<b>07413</b>	<b>STANDING-SEAM METAL ROOF PANELS</b>								
24	A102	0/A401		<b>Standing Seam Metal Main Roofing as:</b> - (2-13/16"Deep) Standing seam metal roof panel - (6"Deep) Thermally broken aluminum Z-Grit framing @ 24"o.c - (6"Thk.) Mechanically secured rigid roof insulation - R-39 - Vapor impermeable air barrier - (5/8"Thk.) Exterior glass mat sheathing	3520	5%	3696	SF	\$0	\$0		
25	A102	1/A401		<b>Standing Seam Metal Overhang Roofing as:</b> - (2-13/16"Deep) Standing seam metal roof panel - Vapor impermeable air barrier - (5/8"Thk.) Exterior glass mat sheathing	1132	5%	1188.6	SF	\$0	\$0		
			<b>07421</b>	<b>MANUFACTURED METAL WALL PANELS</b>								
26	A201	5,6/A401		<b>Type WT-5A Corrugate Metal Rainscreen Panel Façade as:</b> - (2"Deep) Horizontal corrugated aluminum panel w/ z-clip framing - (6"Deep) Thermally broken aluminum Z-Grit framing @ 16"o.c - (6"Thk.) Mechanically secured rigid mineral wool insulation - R-25.8 - Air barrier - (5/8"Thk.) Exterior glass mat sheathing	4328	5%	4544.4	SF	\$0	\$0		
27	A201	5,6/A401		<b>Type WT-6A Standing Seam Metal Rainscreen Panel Façade as:</b> - (2-13/16"Deep) Standing vertical seam metal panel - (6"Deep) Thermally broken aluminum Z-Grit framing @ 16"o.c - (6"Thk.) Mechanically secured rigid mineral wool insulation - R-25.8 - Air barrier - (5/8"Thk.) Exterior glass mat sheathing	2000	5%	2100	SF	\$0	\$0		
28	A201	7/A402		<b>Insulated Aluminum Panel Soffit as:</b> - Aluminum blank-off panel - (3-1/2"Thk.) Mineral wool insulation - Air barrier	105	5%	110.25	SF	\$0	\$0		
29	A102	1/A401		<b>Aluminum Panel Overhang Soffit as:</b> - Aluminum soffit panel w/ clip support framing - Air barrier - (5/8"Thk.) Exterior glass mat sheathing - (7/8"Thk.) Metal furring strip @ 16" o.c	988	5%	1037.4	SF	\$0	\$0		
30	A201			Pipe scaffolding for façade work	8400	5%	8820	SF	\$0	\$0		
			<b>07461</b>	<b>FIBER CEMENT/ UHPC PANEL RAINSCREEN SYSTEM</b>								
31	A201 - A204	3/A321		<b>UHPC Rainscreen Panel Façade as:</b> - UHPC Rainscreen panel incl. subgrit attachment system - (3"Thk.) Rigid insulation - Vapor barrier	4850	5%	5092.5	SF	\$0	\$0		
			<b>07553</b>	<b>SBS MODIFIED BITUMINOUS ROOFING</b>								
32	A105	3/A422		<b>SBS Modified Membrane Roofing System as:</b> - 3 Ply Built-up roofing membrane - (1/2"Thk.) Cover board - (Avg. 8"Thk.) Tapered roofing insulation - Prepare and prime concrete roof deck	14500	5%	15225	SF	\$0	\$0		
			<b>07555</b>	<b>COLD FLUID-APPLIED RESIN ROOFING</b>								
33	A106	5/A421		Fluid applied roofing system over concrete roof deck	3600	5%	3780	SF	\$0	\$0		

				<b>07600</b>	<b>FLASHING AND SHEET METAL</b>					
34	A102	1/A401		(12"H) Aluminum fascia	198	5%	207.9	LF	\$0	\$0
35	A201	A401		(7") Aluminum sheet flashing	372	5%	390.6	LF	\$0	\$0
36	A201	A401		(10") Aluminum sheet flashing	125	5%	131.25	LF	\$0	\$0
37	A201	A401		(4") Aluminum sheet flashing	128	5%	134.4	LF	\$0	\$0
38	A201	3/A402		(10") Aluminum sheet flashing at building corners	100	5%	105	LF	\$0	\$0
39	A201	6/A402		(12") Aluminum bent flashing at opening's jamb	68	5%	71.4	LF	\$0	\$0
40	A201	9/A402		(16") Aluminum bent flashing at opening's head	35	5%	36.75	LF	\$0	\$0
41	A201	8/A402		(20") Aluminum bent flashing at opening's sill	28	5%	29.4	LF	\$0	\$0
42	A102			Flashing at lightning arrestor post	4	0%	4	EA	\$0	\$0
				<b>07720</b>	<b>ROOF ACCESSORIES</b>					
43	A104 - A105	6/A421		(3'x3') Roof access hatch	2	0%	2	EA	\$0	\$0
44	A104 - A105	6/A421		(18"Wx14"H) Hot dipped galvanized roof access ladder	4	0%	4	EA	\$0	\$0
45	A104 - A105	3/A321		(8"x6") Aluminum gutter	95	5%	99.75	LF	\$0	\$0
46	A104 - A105	3/A321		(4"x4") Aluminum downspout	260	5%	273	LF	\$0	\$0
47	A104 - A105	4/A322		(2") Pre-finished metal snow guard	220	5%	231	LF	\$0	\$0
48	A104 - A105	4/A531		(3'6"H) Mesh panel guardrail	420	5%	441	LF	\$0	\$0
49	A104 - A105	6/A531		(4'6"H) Bear claw fence mounted on parapet	65	5%	68.25	LF	\$0	\$0
50	A104 - A105	8/A531		(12"H) Roof curb for exhaust fan / ventilator / outdoor unit	45	5%	47.25	LF	\$0	\$0
51	A104 - A105	9/A531		(12"H) Roof curb for AHU	130	5%	136.5	LF	\$0	\$0
				<b>07900</b>	<b>JOINT SEALERS</b>					
52	A901	1/A902		Caulking / sealant around exterior & interior openings	4500	5%	4725	LF	\$0	\$0
53	A901	2/A902		Sealant incl. baker rod around exterior openings	3200	5%	3360	LF	\$0	\$0
54	A201 - A204	3/A421		Sealant incl. baker rod at façade	250	5%	262.5	LF	\$0	\$0
55				Miscellaneous joint sealants	1	0%	1	LS	\$0	\$0
					<b>Subtotal</b>					
					<b>TOTAL BASE BID</b>					
					<b>Exclusions:</b>	<b>Abbreviations:</b>				
1: N/A					w/ <> with ; o.c <> on center ; incl. <> including ; Reinf. <> Reinforced					