

ESTIMATOR 88 TUTORIAL

- 1. MICROSOFT OFFICE 2016 IS RECOMMENDED.
- 2. THIS ESTIMATOR IS FOR OMNI BLOCK 8×8×16.
- 3. THE ESTIMATOR IS TO USED FOR THE PURPOSES OF ESTIMATING AND SHOULD NOT BE USED IN ANY WAY AS A CONTRACT.
- 4. IN NO WAY DOES THIS ESTIMATOR TOOL BIND OMNI BLOCK. EACH USER MUST VERIFY THE ACTUAL RESULTS OF THE ESTIMATOR TOOL..
- 5. INDEPENDENT OF THIS PROGRAM, A DETERMINATION OF THE REQUIRED DATA POINTS MUST BE COMPLETED (USE BID SHEET FORM - SEE PAGE 28 OF THIS TUTORIAL).
- 6. PERFORM A "SAVE AS" IMMEDIATELY SO THERE IS AN ORIGINAL VERSION .
- 1. THE GREEN CELLS IN THE PROGRAM ARE THE ONLY CELLS THAT DATA CAN BE ENTERED. THE OTHERS ARE PROTECTED.
- 8. ESTIMATOR 88 HAS 5 SECTIONS:
 - A. WALL INFORMATION
 - B. WINDOWS AND DOORS
 - C. QUANTITY CALCULATIONS
 - D. WHOLESALE COST
 - E. QUICK ESTIMATE

AN AUXILIARY HIDDEN AREA IS PRICING.

- 9. EACH STEP FULLY EXPLAINS THE DATA ENTRY FIELD AND ITS USE.
- 10. UNIT PRICING SHOULD BE SUPPLIED BY A LOCAL DISTRIBUTOR. OMNI BLOCK CANNOT ALWAYS SUPPLY THIS INFORMATION BECAUSE LOCAL BLOCK PLANTS CONTROL UNIT PRICING DUE TO LOCAL AGGREGATE AND LABOR COSTS.
- 11. IN ORDER TO BECOME FAMILIAR WITH THE ESTIMATOR, USE THE SAME ENTRY NUMBERS AS THIS TUTORIAL. ONCE FAMILIAR, CHANGE ENTRIES TO SEE HOW THE VARIOUS DATA FIELDS RELATE/AFFECT OTHER DATA FIELDS.

DATE: 03-05-11	PAGE: 02	ESTIMATOR 88 OVERVIEW	AN INSULATED CONCRETE BLOCK

				WAL	L INFORMATION	l						WIND	DOWS AND I	DOORS	
RESET FORM	Number of Omni Block Wall Heights]								QUANTITY	WIDTH	HEIGHT	VERTICAL	SQ. FT.
	Number of 4" CMU Wall Heights														
		Omni Block Height 1													
	Wall Height														
	Top of Wall Bond Beam (Yes / No) Wall Length														
	Number of Corners														
	Total Wall Square Feet	0.00													
	Total Square Feet of Windows and Doors	0.00													
	Vertical Height of Windows and Doors	0.00													
				QUANTI	TY CALCULATIO	ONS									
	BLOCK	Omni Block Height 1								TOTALS					
	Stretchers	0								0					
	8 x 8 x 8 Halfs	0								0					
	8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU									0					
	8 x 4 x 16 CMU									0					
	INSERTS Short Inserts	0								0					
	Long Inserts	o								ō					
				WHO	OLESALE COST										
Item Price		Required Pallets	Extra Block	+/- Pallets	Total Extra	Total Pallets	Quanti	y Price	Total	Cost					
Stretchers \$1.65	OMNI BLOCK: Stretchers			0.0											
Corners \$1.80	Corners Total Omni Block			0.0						\$0.00					
8 x 8 x 8 Halfs \$1.30	8 x 8 x 8 Halfs			0.0											
8 x 8 x 16 CMU \$1.60 8 x 8 x 16 Bond Beam CMU \$1.60	8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU			0.0											
8 x 4 x 16 CMU \$1.60	8 x 4 x 16 CMU Total Other CMU Block			0.0						\$0.00					
	TOTAL BLOCK									\$0.00					
									_						
	INSERTS:	Required Bags	Extra Foam	+ Bags	I otal Extra	I otal Bags	Quantr	y Price	-						
Short Inserts \$0.96 Long Inserts \$1.06	Short Inserts Long Inserts	0	0	0	0	0	0	\$0.96 \$1.06							
	TOTAL INSERTS				_					\$0.00					
	TOTAL BLOCK AND INSERTS									\$0.00	0	-	TOTALS	0.00	0.00
	FREIGHT: (estimated)						Shipmer	ts Price	-			Q	UICK ESTIM/	\TE	
Block Freight \$400 Foam Insert Freight \$400	Block Freight Foam Insert Freight						0	\$400 \$400			Wall Height	t			
	TOTAL FREIGHT									\$0.00	Lineal Feet Total Squa	re Feet			0
Pallet Charge \$15.00	Pallet Charges						0	\$15.00			Price per S	q. Ft.			\$0.00
Pallet Shrink Wrap Fee \$2.00	Pallet Shrink Wrap Fee						0	\$2.00			Quick Estin	nate			\$0
	TOTAL									\$0.00	Gross Block Less Egres	k s			0 15%
Pallet Refund \$11.00	Pallet Refund (if returned back to origin)						22	(\$11.00)	(\$242.00)	Net Block				0
	Estimate Prepared By:]											
	BACE OR			EC+			a						-	- =	
AIE 03-05-11	TAGE: 03			ESI	ITAI		0								5
		ę	BINGL	E-P4	4GE	BLAN	K FC	DRM				AN		TED C	ONCRE
				· /											

A MAXIMUM OF 5 DIFFERENT OMNI BLOCK WALL HEIGHTS MAY BE USED; 2 FOR 8" STANDARD CMU AND 1 FOR 4" STANDARD CMU.

1. ENTER THE NUMBER OF DIFFERENT WALL HEIGHTS FOR OMNI BLOCK AND IF USED, 8" AND/OR 4" HIGH STANDARD CMU.

WALL HEIGHT COLUMNS ONLY APPEAR WHEN THERE IS A NEED FOR THEM. IF I IS ENTERED FOR OMNI BLOCK WALL HEIGHT, THEN THE OTHER 4 DO NOT APPEAR.

	(WALL	INFORMATION						
Number of Omni Block Wall Height Number of 8" CMU Wall Heights Number of 4" CMU Wall Heights		5 2 1	P								
		Omni Block Height 1	Omni Block Height 2	Omni Block Height 3	Omni Block Height 4	Omni Block Height 5	8" CN Height	1U : 1	8" CMU Height 2	4" CMU Height 1	
Wall Height										0.33	
Top of Wall Bond Beam (Yes / No)									No	
Wall Length											
Total Windows and Doors											
Total Wall Square Feet		0.00	0.00	0.00	0.00	0.00	0.00)	0.00	0.00	
Total Square Feet of Windows and Vertical Height of Windows and D	d Doors oors	0.00 0.00									
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2. FOR THIS TUTORIAL, ENTER 2 OMNI BLOCK WALL HEIGHTS, 1 8" CMU AND 1 4" CMU.

3. USING THE DROP DOWN MENU UNDER "WALL HEIGHT 1" SCROLL DOWN TO 10.00. NOTICE THAT THE DROP DOWN MENU ONLY ALLOWS FOR BLOCK MODULE (8" INCREMENT) OPTIONS. THIS IS AN ESTIMATION TOOL FOR THE 8" HIGH OMNI BLOCK MODEL AND IS ONLY AVAILABLE IN 8" HIGH UNITS. THERE IS A SEPARATE ESTIMATION TOOL FOR THE OMNI BLOCK 4" HIGH MODEL.

			WALL INFORMATION		
Number of Omni Block Wall Huights Number of 8" CMU Wall Heights Number of 4" CMU Wall Heights	2 1 0mni Block Height 1	Omni Block Height 2		8" CMU Height 1	4" CMU Height 1
Wall Height Top of Wall Bond Beam (Yes / No) Wall Length	2.01				0.33 No
Number of Corners Total Windows and Doors	3.33 4.00				
Total Wall Square Feet	4.67 5.33	0.00		0.00	0.00
Total Square Feet of Windows and I Vertical Height of Windows and Doc	Doors 6.00 ors 6.67				
	7.33		QUANTITY CALCULATIONS		
BLOCK	8.00 8.67	Omni Block Height 2		8" CMU Height 1	4" CMU Height 1 TOTALS
Stretchers Corners 8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU	9.33	0			0 0 0 0
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4. UNDER WALL HEIGHT I USE THE DROP DOWN MENU IN THE "TOP OF WALL BOND BEAM" CELL ENTER "YES" (EXPLANATION IS ON PAGE 10).

5. ENTER 100 IN THE WALL LENGTH CELL. THE WALL IS 10'0" HIGH BY 100'00" LONG.

ADD 12'0" THEN YES THEN 100'0" UNDER "HEIGHT 2".

ALL WALL LENGTHS SHOULD BE BLOCK MODULE. BLOCK MODULE MEANS THAT THE LENGTH MUST BE DIVISIBLE BY 8".

A WAY TO IMMEDIATELY TELL IF A WALL IS BLOCK MODULE:

- 1) ANY EVEN NUMBER; 2'0", 4'0", 6'0", 8'0"...
- 2) AND EVEN NUMBER PLUS 8"; 2'8", 4'8", 6'8"...
- 3) ANY ODD NUMBER PLUS 4"; 1'4", 3'4", 5'4" ...

IN THE EVENT A WALL LENGTH IS NOT BLOCK MODULE, ROUND UP THE DATA ENTRY TO THE NEXT BLOCK MODULE DIMENSION.

EXAMPLE: A WALL LENGTH OF 99'6" MUST BE ENTERED AS 100'0".



6. IN THIS TUTORIAL THERE ARE 4 WINDOWS THAT ARE $4'0'' \times 6'0''$. ENTER 4 IN THE FIRST LINT UNDER THE QUANTITY COLUMN.

1. USING THE DROP DOWN MENU UNDER WIDTH, SELECT 4.00.

WINDOWS AND DOORS

QUANTITY	WIDTH	Н	EIGHT	VERTICAL	SQ. FT.
4		Ψ.		0.00	0.00
	0.67				
	1.33				
	2.00				
	2.67				
/	3.33				
	4.00				
	4.67				
	5.33				
	6.00				
	6.67				
	7.33				
	8.00				

8. USING THE DROP DOWN MENU UNDER HEIGHT, SELECT 6.00.

QUANTITY WIDTH HEIGHT VERTICAL SQ. FT. **v** 0.00 4 4.00 0.00 0.67 1.33 2.00 2.67 3.33 4.00 4.67 5.03 6.00 6.67 7 22 8.00

WINDOWS AND DOORS

NOTICE THAT THE DROP DOWN MENU ONLY ALLOWS FOR BLOCK MODULE (8" INCREMENT) OPTIONS.

ANY TIME YOUR WINDOW DIMENSION IS NOT BLOCK MODULE USE THE NEXT CLOSEST SMALLER OPTION. THEREFORE, A 5'0" WINDOW DIMENSION WOULD REQUIRE A 4'8" DATA ENTRY.

WINDOWS AND DOORS

THE FORM SHOULD APPEAR AS SHOWN BELOW.

QUANTITY	WIDTH	HEIGHT	VERTICAL	SQ. FT.
4	4.00	6.00	24.00	96.00

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ESTIMATOR 88 STEPS 6, 7, \$ 8



9. COMPLETE THE WINDOWS AND DOORS SECTION BY ENTERING THE DATA IN THE OTHER CELLS AS SHOWN.

10. THE "NUMBER OF CORNERS" LINE IS THE NUMBER OF ACTUAL CORNERS PER EACH WALL HEIGHT DETERMINED FROM THE PLAN SET. IN THIS EXAMPLE, THERE ARE 4 CORNERS IN THE 10'0" WALL SECTIONS AND 2 CORNERS IN THE 12'0" WALL SECTIONS.

11. DETERMINE THE NUMBER OF WINDOWS AND DOORS FOR EACH WALL HEIGHT AND ENTER IT IN THE PROPER CELL. IN THIS EXAMPLE, THERE ARE 4 WINDOW AND DOORS IN THE 10'0" WALL AND 5 IN THE 12'0" WALL. 12. THE 8" CMU IN THIS TUTORIAL IS AN EXAMPLE OF A CMU STEM WALL WITH A STANDARD CMU BOND BEAM. SINCE THERE ARE 200'0" LINEAL FEET OF OMNI BLOCK AND ASSUME A 16'0" X 8'0" GARAGE DOOR (USUALLY NEVER INCLUDED IN THE WINDOWS AND DOORS) WITH 2'0" ABOVE GARAGE AREA THAT WILL BE SOLID GROUTED (NOT OMNI) IS A TOTAL LENGTH OF 216'0". ENTER 216'0" IN THE WALL LENGTH CELL UNDER 8" CMU HEIGHT 1.

13. SINCE THE GARAGE DOOR IS 8'0" IN HEIGHT AND THERE IS NORMALLY A 4" SLOPE TO THE GARAGE FLOOR (RECESSING THE GARGE DOOR 4") THERE WILL NEED TO BE 16'0" OF 4" BLOCK ABOVE THE GARAGE DOOR TO MAKE UP THE SLOPE. ENTER 16'0" IN THE WALL LENGTH CELL UNDER 4" CMU HEIGHT 1.



THE GOAL OF THIS ESTIMATOR TO PROVIDE VERY ACCURATE TOTAL QUANTITIES FOR THE ENTIRE PROJECT AS EFFECIENTLY AS POSSIBLE. IN ORDER TO ACCOMPLISH THIS GOAL, ALL OF THE WINDOW AND DOOR OPENING SQUARE FOOTAGES ARE DEDUCTED FROM "WALL HEIGHT 1". ALL OF THE HALVES ARE INCLUDED IN "WALL HEIGHT 1" AS WELL.. THIS MEANS THAT MORE BLOCK WILL BE DEDUCTED FROM WALL HEIGHT 1 THAN WOULD BE REQUIRED TO ACTUALLY BUILD IT.

THEREFORE, THE BLOCK AND INSERT QUANTITIES WILL ALWAYS BE UNDERSTATED FOR WALL HEIGHT I AND OVER STATED FOR ANY SUBSEQUENT WALLS WITH OPENINGS IN THEM, BUT THE TOTAL REQUIRED TO BUILD ALL WALLS WILL BE ACCURATE.

197.23

47.99

Total Square Feet of Windows and Doors Vertical Height of Windows and Doors

ALL QUANTITIES ARE AUTOMTICALLY CALCULATED FROM THE DATA THAT IS ENTERED IN THE VARIOUS CELLS IN THE "WALL INFORMATION" SECTION. THE TOTALS REPRESENT THE MINIMUM QUANTITIES REQUIRED. THESE TOTALS DO NOT ACCOUNT FOR ANY BLOCK BREAKAGE, MIS-HANDLING, MIS-CUTS, OR POSSIBLE MINOR "AS BUILT" CHANGES.

			QUANTITY CALCULATIONS			
BLOCK	Omni Block Height 1	Omni Block Height 2		8" CMU Height 1	4" CMU Height 1	TOTALS
Stretchers	685	1,059				1,744
Corners	108	216				324
8 x 8 x 8 Halfs	72					72
8 x 8 x 16 Bond Beam CMU	75	75		162		312
8 x 8 x 16 CMU				324		324
8 x 4 x 16 CMU					12	12
INSERTS						
Short Inserts	961	1,518				2,479
Long Inserts	739	1,167				1,906
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BOND BEAM CMU IS GENERALLY USED AT THE TOP OF WALL IF THE STRUCTURAL ENGINEER SPECIFIES 2 #5 REBAR. ENTERING "NO" MEANS THAT THE ENTIRE WALL WILL BE OMNI BLOCK. IF "YES" IS ENTERED, THEN ONE COURSE OF OMNI BLOCK IS DEDUCTED AND REPLACED BY BOND BEAM CMU.

IN THIS EXAMPLE, BOND BEAM BLOCK IS REQUIRED, THEREFORE "YES" IS ENTERED FROM THE DROP DOWN MENU IN BOTH WALL HEIGHTS. NOTICE 15 BOND BEAM BLOCK ARE ADDED WHICH MEANS 15 OMNI BLOCK ARE DEDUCTED FROM EACH WALL HEIGHT.

2

1

1 Omni Block

Height 1

10.00

Yes

100.00

4

4

1,000.00

197.23

47.99

Omni Block

Height 1

685

108

72

75

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Number of Omni Block Wall Heights

Number of 8" CMU Wall Heights

Number of 4" CMU Wall Heights

Top of Wall Bond Beam (Yes / No)

Total Square Feet of Windows and Doors

Vertical Height of Windows and Doors

Wall Height

Wall Length

BLOCK

DATE: 03-05-17

Number of Corners

Total Windows and Doors

Total Wall Square Feet

Stretchers

8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU

8 x 8 x 16 CMU 8 x 4 x 16 CMU

Corners

ED AT AL		Item	Price	
		Stretchers	\$1.80	
TIRE		Corners	\$1.95	
IS				
INI				
ED BY				
		8 x 8 x 8 Halfs	\$1.40	
		8 x 8 x 16 CMU	\$1.60	
CK IS		8 x 8 x 16 Bond Beam CMU	\$1.60	
		8 x 4 x 16 CMU	\$1.55	
IH WALL				
BLOCK				
HEIGHT.				
		Short Inserts	\$0.96	
		Long Inserts	\$1.06	
			01.00	
Omni Block Height 2				
12.00				
100.00		Block Freight	\$400	
2		Foam Insert Freight	\$600	
5		5		
1,200.00				14. ENTER THE INDIVIDUAL
				LOCAL FRICES FOR EACH
		Pallet Charge	\$15.00	
		Pallet Shrink Wrap Fee	\$2.00	
				THE FRINTADLE SECTION.
Omni Block				
Height 2				
1,059				SECTION IS HIDDEN WHEN
		Pallet Refund	\$11.00	THE PAGE IS PRINTED.
75				
		88		
	ESTIMATOR			<i>,тпі віоск</i>
	STEP 14			AN INSULATED CONCRETE BLOCK

15. DETERMINE STRETCHER ORDER QUANTITY. STRETCHERS ARE USUALLY STACKED 30 TO A PALLET.

FROM THE "QUANTITY CALCULATIONS" SECTION, MINIMUM STRETCHERS REQUIRED TOTAL 1744. ROUNDING UP TO THE NEXT FULL PALLET, THERE WOULD BE 20 PALLETS OR 1800 STRETCHERS PUT ON THE ORDER.

THIS WOULD MEAN THAT 56 EXTRA STRETCHER BLOCK WOULD BE INCLUDED IN THE 1800 ..



15A. ADJUST AMOUNT OF STRETCHERS ON THE ORDER BY ADDING A PALLET (OR FRACTION OF A PALLET) IN THE +/-PALLETS CELL. IN THIS EXAMPLE AN EXTRA PALLET IS ADDED TO THE ORDER. THIS MEANS THAT THERE ARE 56 EXTRA BLOCK PLUS 90 STRETCHER BLOCK DUE TO THE ADDITIONAL PALLET TOTALLING 146 EXTRA STRETCHER BLOCK.

NOW THERE ARE 21 PALLETS OF STRETCHER BLOCK ON THE ORDER TOTALLING 1,890.

			QUANTIT	Y CALCULATION:	S				
	Omni Block	Omni Block				8" CMU		4" CMU	
BLOCK	Height 1	Height 2				Height 1		Height 1	TOTALS
Stretchers	685	1.059							1,744
Corners	108	216							324
8 x 8 x 8 Halfs	72								72
8 x 8 x 16 Bond Beam CMU	75	75				162			312
8 x 8 x 16 CMU						324			324
8 x 4 x 16 CMU								12	12
INSERTS									
Short Inserts	961	1,518							2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
	Required Pallets	Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	l Cost
OMNI BLOCK:									
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	1	\$3,402.00
Corners	4.0	36	0.0	36	4.0	369	\$1.95		\$702.00
Total Omni Block									\$4,104.00
OTHER CHILLRI OCK.									
OTHER CMU BLOCK:	10	108	0.0	108	1.0	180	61.40		\$252.00
0 x 0 x 0 nails	1.0	100	0.0	48	1.0	260	\$1.40		\$576.00
0 x 0 x 10 bond beam CMU	4.0	40	0.0	40	4.0	360	\$1.60		\$576.00
8 x 8 x 16 CMU	4.0	169	0.0	169	4.0	180	\$1.60		\$279.00
Total Other CMU Block	1.0	100	0.0	100	1.0	100	31.55		\$1,404.00
Total other cirio block									01,101.00
TOTAL BLOCK									\$5,508.00
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16. DETERMINE CORNER ORDER QUANTITY. CORNERS ARE STACKED 90 TO A PALLET. THERE ARE LEFT AND RIGHT CORNERS STACKED SEPARATELY. THERE ARE AN EVEN AMOUNT OF RIGHTS (50%) AND LEFTS (50%) CORNERS ON MOST EVERY PROJECT. NOTE, THE CORNERS CAN BE FLIPPED UPSIDE DOWN AND EFFECTIVELY USED THUS REDUCING THE EXACTNESS OF THE ORDER QUANTITY. FROM THE "QUANTITY CALCULATIONS" SECTION THE TOTAL REQUIRED CORNERS ARE 324. ROUNDING UP TO THE NEXT FULL PALLET, THERE WOULD BE 4 PALLETS OR 360 CORNERS PUT ON THE ORDER, WHICH WOULD INCLUDE 36 EXTRA CORNER BLOCK. 36 BLOCK IS AN ALLOWANCE OF A LITTLE OVER 10% AND SHOULD BE ENOUGH EXTRA CORNER BLOCK. THE CORNERS CAN BE ADJUSTED BY ENTERING AN ADDITIONAL NUMBER OF PALLETS IN THE +/- PALLETS CELL.

				QUANTIT	Y CALCULATION	S				
<u> </u>										
		Omni Block	Omni Block				8" CMU		4" CMU	
BLOCK		Height 1	Height 2				Height 1		Height 1	TOTALS
Stretchers		685	1,059							1,744
Corners		108	216						(324
8 x 8 x 8 Halfs		72							,	72
8 x 8 x 16 Bond Beam CMU		75	75				162			312
8 x 8 x 16 CMU							324			324
8 x 4 x 16 CMU									12	12
INSERTS										
Short Inserts		961	1,518							2,479
Long Inserts		739	1,167							1,906
				WHO	LESALE COST					
	1	Required Pallets	Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	l Cost
OMNI BLOCK:										
Stretchers		20.0	56	1.0	146	21.0	1,890	\$1.80	\$	\$3,402.00
Corners		4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block										\$4,104.00
OTHER CMIL BLOCK.										
8 x 8 x 8 Halfs		1.0	108	0.0	108	1.0	180	\$1.40		\$252.00
8 x 8 x 16 Bond Beam CMU		4.0	48	0.0	48	4.0	360	\$1.60		\$576.00
8 x 8 x 16 CMU		4.0	36	0.0	36	4.0	360	\$1.60		\$576.00
8 x 4 x 16 CMU		1.0	168	0.0	168	1.0	180	\$1.55		\$279.00
Total Other CMU Block										\$1,404.00
TOTAL BLOCK										\$5,508.00
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				LUIIIA					ΠΒΙ	OCK
				STE	P 16			AN INSI	LATED CONCR	ETE BLOCK
								-		

17. DETERMINE THE NUMBER OF 8X8X8 HALFS. HALFS ARE STACKED 180 TO A PALLET. FROM THE "QUANTITY CALCULATIONS" SECTION, TOTAL HALF BLOCK REQUIRED IS 12. ROUNDING UP TO THE NEXT FULL PALLET, THERE WOULD BE 1 PALLET OR 180 HALFS PUT ON THE ORDER, THIS WOULD INCLUDE 108 EXTRA HALFS AND THAT IS FAR TOO MANY TO PUT ON THE ORDER.

HALFS ARE REQUIRED AT ALL WINDOW AND DOOR JAMBS AT A FREQUENCY OF ONE EVERY OTHER COURSE ON BOTH SIDES OF THE OPENING. THIS IS WHY THE VERTICAL HEIGHT OF ALL OPENINGS IS PART OF THE AUTOMATIC CALCULATIONS. IF THERE IS A SITUATION WHERE A BLOCK WALL ENDS OR THERE ARE CONTROL JOINTS, THE HALFS CAN BE ADDED BY ADJUSTING THE +/- PALLETS COLUMN.

			QUANTIT	Y CALCULATIO	NS				
LOCK	Omni Block Height 1	Omni Block Height 2				8" CMU Height 1		4'' CMU Height 1	TOTALS
Stretchers	685	1.059							1,744
Corners	108	216							324
8 x 8 x 8 Halfs	72								72
8 x 8 x 16 Bond Beam CMU	75	75				162			312
8 x 8 x 16 CMU						324			324
8 x 4 x 16 CMU								12	12
NSERTS									
Short Inserts	961	1,518							2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
	Required Palle	ets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	l Cost
MNI BLOCK:									
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	5	\$3,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block									\$4,104.0
THER CHILDLOCK.									
THER CMU BLUCK:		100		100		100	61 40		6252.00
8 x 8 x 8 Halts	1.0	108	0.0	108	1.0	180	\$1.40		\$252.00
8 x 8 x 16 Bond Beam CMU	4.0	48	0.0	48	4.0	360	\$1.60		\$576.00
8 x 8 x 16 CMU	4.0	36	0.0	36	4.0	360	\$1.60		\$376.00
8 X 4 X 16 CMU	1.0	168	0.0	168	1.0	180	\$1.55		\$279.00
Total Other CMU Block									\$1,404.
OTAL BLOCK									\$5,508.
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									/

17A. ADJUST AMOUNT OF HALFS ON THE ORDER BY ENTERING A NEGATIVE FRACTION (EXPRESSED BY A DECIMAL) IN THE +/-PALLETS CELL. IN THIS EXAMPLE A -0.50 IS ENTERED EFFECTIVELY REDUCING THE ORDER TO 1/2 OF A PALLET. NOW THERE ARE ONLY 18 EXTRA HALF BLOCK (108 - 30).

THEREFORE, 18 PLUS THE 12 FROM THE "QUANTITY CALCULATIONS" TOTAL 30 HALF BLOCK TO BE PUT ON THE ORDER. THIS SHOULD BE PLENTY OF EXTRA HALFS.

			QUANTI	TY CALCULATIO	NS				
BLOCK	Omni Bi Height	ock Omni Block 1 Height 2				8" CMU Height 1		4" CMU Height 1	TOTALS
Stretchers Corners 8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU 8 x 4 x 16 CMU INSERTS Short Inserts	685 108 72 75 961	1,059 216 75 1,518				162 324		12	1,744 224 72 342 324 12 2,479
Long Inserts	739	1,167							1,906
			WHO	DLESALE COST					
	Required I	Pallets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Τσ	tal Cost
OMNI BLOCK: Stretchers Corners Total Omni Block	20.0 4.0) 56 36	1.0 0.0	146 36	21.0 4.0	1,890 360	\$1.80 \$1.95		\$3,402.00 \$702.00 \$4,104.00
OTHER CMU BLOCK: 8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU 8 x 4 x 16 CMU Total Other CMU Block TOTAL BLOCK	1.0 4.0 1.0	108 48 36 168	(0.5) 0.0 0.0 0.0	18 48 36 168	0.5 4.0 4.0 1.0	90 360 360 180	\$1.40 \$1.60 \$1.60 \$1.55		\$126.00 \$576.00 \$576.00 \$279.00 \$1,278.00 \$5,382.00
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18. DETERMINE THE NUMBER OF 8X8X16 BOND BEAM CMU. BOND BEAM CMU ARE STACKED 90 TO A PALLET.

FROM THE QUANTITY CALCULATIONS SECTION, THERE ARE 312 BOND BEAM CMU REQUIRED. ROUNDING UP TO THE NEXT FULL 360 WOULD INCLUDE 48 EXTRA BOND BEAM CMU'S AND FOR PALLET, THERE WOULD BE 4 PALLETS OR 360 BOND BEAM CMU'S PUT ON THE ORDER.

THIS EXAMPLE, ASSUME THAT IS TOO MANY EXTRA BOND BEAM CMU BLOCK.

			QUANTIT	Y CALCULATIO	NS				
BLOCK	Omni Bloc Height 1	k Omni Block Height 2				8" CMU Height 1		4" CMU Height 1	TOTALS
Stretchers Corners 8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU 8 x 4 x 16 CMU INSERTS	685 108 72 75	1,059 216 75				162 324		12	1,744 324 72 312 324 12
Short Inserts Long Inserts	961 739	1,518							2,479
OMNI BLOCK: Stretchers Corners Total Omni Block OTHER CMU BLOCK: 8 x 8 x 8 Halfs 8 x 8 x 16 Bond Beam CMU 8 x 8 x 16 CMU 8 x 4 x 16 CMU Total Other CMU Block	Required Pal 20.0 4.0 4.0 4.0 4.0 4.0 1.0	tets Extra Block 56 36 108 48 36 168	+/- Pallets 1.0 0.0 (0.5) 0.0 0.0 0.0	Total Extra 146 36 18 48 36 168	Total Pallets 21.0 4.0 0.5 4.0 4.0 1.0	Quantity 1,890 360 90 360 360 360 180	Price \$1.80 \$1.95 \$1.40 \$1.60 \$1.60 \$1.55	Tota	al Cost \$3,402.00 \$702.00 \$4,104.00 \$126.00 \$576.00 \$576.00 \$279.00 \$1,278.00 \$5,382.00
DATE: 03-05-11	PAGE: 16		ESTIMA STE	TOR 88 P 18					IOCK RETE BLOCK

ISA ADJUST AMOUNT OF BOND BEAM CMU ON THE ORDER BY ENTERING A NEGATIVE FRACTION (EXPRESSED BY A DECIMAL) IN THE +/- PALLETS CELL. IN THIS EXAMPLE A -0.40 IS ENTERED. THERE ARE NOW ONLY 12 EXTRA BOND BEAM CMU BLOCK (48 -36) BECAUSE 36 IS 40% OR 0.40 OF A FULL PALLET.

THE ORDER WOULD NOW HAVE 324 BOND BEAM CMU ON IT.

				QUANTIT	Y CALCULATION	NS				
BLOCK		Omni Block Height 1	Omni Block Height 2				8" CMU Height 1		4" CMU Height 1	TOTALS
Stretchers		685	1,059							1,744
Corners		108	216							324
8 x 8 x 8 Halfs		72								72
8 x 8 x 16 Bond Beam CMU		75	75				162			312
8 x 8 x 16 CMU							324			324
8 x 4 x 16 CMU									12	12
INSERTS										
Short Inserts		961	1,518							2,479
Long Inserts		739	1,167							1,906
				WHO	LESALE COST					
		Required Pallets	Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tot	tal Cost
OMNI BLOCK:										
Stretchers		20.0	56	1.0	146	21.0	1,890	\$1.80		\$3,402.00
Corners		4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block										\$4,104.00
OTHER CMU BLOCK:										
8 x 8 x 8 Halfs		1.0	198	(0.5)	19	0.5	20	\$1,40		\$126.00
8 x 8 x 16 Bond Beam CMU		4.0	48	(0,4)	12	3.6	324	\$1.60		\$518.40
8 x 8 x 16 CMU		4.0	36	0.0	36	4.0	360	\$1.60		\$576.00
8 x 4 x 16 CMU		1.0	168	0.0	168	1.0	180	\$1.55		\$279.00
Total Other CMU Block										\$1,220.40
TOTAL BLOCK										\$5,324.40
									-	
)ATE: 03-05-17	PAC	3E: 17		ESTIMA	TOR 88				ni B	lock
				STEF	P 18A			AN INSI	JLATED CONC	RETE BLOCK

19. DETERMINE THE NUMBER OF 8×8×16 CMU. 8×8×16 CMU ARE STACKED 90 TO A PALLET.

FROM THE "QUANTITY CALCULATIONS" SECTION, THERE ARE 324 8X8XI6 CMU'S REQUIRED. ROUNDING UP TO THE NEXT FULL

PALLET, THERE WOULD BE 4 PALLETS OR 360 8X8X16 CMU'S PUT ON THE ORDER. 360 WOULD INCLUDE 36 EXTRA 8X8X16 CMU'S AND THAT IS PROBABLY ABOUT THE RIGHT AMOUNT.

THIS BLOCK QUANTITY CAN BE ADJUSTED THE SAME AS THE OTHER EXAMPLES PROVIDED THUS FAR.

			QUANTIT	Y CALCULATIO	NS				
	Omni Bloc	k Omni Block				8" CMU		4" CMU	
BLOCK	Height 1	Height 2				Height 1		Height 1	TOTALS
Stretchers	685	1,059							1,744
Corners	108	216							324
8 x 8 x 8 Halfs	72								72
8 x 8 x 16 Bond Beam CMU	75	75				162			312
8 x 8 x 16 CMU						324		(324
8 x 4 x 16 CMU								12	12
INSERTS									
Short Inserts	961	1,518							2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
			_						
	Required Pal	lets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Total	Cost
OMNI BLOCK:									
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	S	3,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block									\$4,104.00
OTHER CMU BLOCK:	10	100	(0.5)	10	0.5		61.40		¢126.00
8 x 8 x 8 Hairs	1.0	108	(0.5)	18	0.5	90	\$1.40		\$120.00
8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.0	324	\$1.60		\$510.40
8 x 8 x 16 CMU	4.0	160	0.0	169	4.0	180	\$1.60		\$279.00
Total Other CMU Block	1.0	100	0.0	100	1.0	100	\$1.55		\$1 220 40
Total other CMO block									\$1,220.40
TOTAL BLOCK									\$5.324.40
ATE: 03-05-17	PAGE: 18		ESTIMA	TOR 88				niRl	lock
			STE	P 19			AN INSI		

20. DETERMINE THE NUMBER OF 8X4X16 CMU. THEY ARE STACKED 180 TO A PALLET.

FROM THE "QUANTITY CALCULATIONS" SECTION, THERE ARE 12 8X4X16 CMU REQUIRED. ROUNDING UP TO THE NEXT FULL PALLET, THERE WOULD BE I PALLET OR 180 8X4X16 CMU'S PUT ON THE ORDER.

180 WOULD INCLUDE 168 EXTRA 8X4X16 CMU'S AND THAT IS FAR TOO MANY.

			QUANTIT	Y CALCULATION	4S				
	Ome: Black	Omni Block				8" CMU		4" CMU	
BLOCK	Height 1	Height 2				Height 1		Height 1	TOTAL S
Stretchers	fillingine i	1.059				rieght i		neight i	1.744
Corners	108	216							324
8 x 8 x 8 Halfs	72	2.0							72
8 x 8 x 16 Bond Beam CMU	75	75				162			312
8 x 8 x 16 CMU						324			324
8 x 4 x 16 CMU								12	12
INSERTS									
Short Inserts	961	1,518							2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
	Required Pall	ets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	Cost
OMNI BLOCK:									
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	S	3,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block									\$4,104.00
OTHER CMU BLOCK:			(0.5)						6120.00
8 x 8 x 8 Halts	1.0	108	(0.5)	18	0.5	90	\$1.40		\$126.00
8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.6	324	\$1.60		\$510.40
8 x 8 x 16 CMU	4.0	30	0.0	30	4.0	180	\$1.60		\$376.00
Total Other CMU Plack	1.0	100	0.0	100	1.0	100	\$1.55		\$1 220 40
Total Other CMO Block			•						\$1,220.40
TOTAL BLOCK									\$5.324.40
									\$5,52
)ATE: 03-05-17	PAGE: 19		ESTIMA	TOR 88				niR	lock
			6+E	D 10					
			512	20			AN INSU	LATED CONCR	EIE BLUCK

20 ADJUST AMOUNT OF 8X4X16 CMU ON THE ORDER BY ENTERING A NEGATIVE FRACTION (EXPRESSED BY A DECIMAL) IN THE +/- PALLETS CELL. IN THIS EXAMPLE A -0.90 IS ENTERED. THIS MEANS THAT THERE ARE NOW ONLY 6 EXTRA 8X4X16 CMU BLOCK (168 - 162) BECAUSE 162 IS 90% OR 0.90 OF A FULL PALLET.

THE ORDER WOULD NOW HAVE 18 8×4×16 CMU ON IT.

				QUANTIT	Y CALCULATION	۹S				
	c	Omni Block	Omni Block				8" CMU		4" CMU	
BLOCK		Height 1	Height 2				Height 1		Height 1	TOTALS
Stretchers		685	1,059							1,744
Corners		108	216							324
8 x 8 x 8 Halfs		72								72
8 x 8 x 16 Bond Beam CMU		75	75				162			312
8 x 8 x 16 CMU							324			324
8 x 4 x 16 CMU									12	12
INSERTS										
Short Inserts		961	1,518							2,479
Long Inserts		739	1,167							1,906
				WHO	LESALE COST					
	Rec	quired Pallets	Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	al Cost
OMNI BLOCK:										
Stretchers		20.0	56	1.0	146	21.0	1,890	\$1.80		\$3,402.00
Corners		4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block										\$4,104.00
OTHER CMU BLOCK:										
8 x 8 x 8 Halfs		1.0	108	(0.5)	18	0.5	90	\$1.40		\$126.00
8 x 8 x 16 Bond Beam CMU		4.0	48	(0.4)	12	3.6	324	\$1.60		\$518.40
8 x 8 x 16 CMU		4.0	36	8.0	36	4.0	360	\$1.60		\$576.00
8 x 4 x 16 CMU		1.0 (168	(0.9)	6	0.1	18	\$1.55		\$27.90
Total Other CMU Block		Ň			\leq	-				\$1,220.40
TOTAL BLOCK										\$5,324.40
	DAGE:	20		EGTIMA						
AIE 03 05 11	I AGE	20		ESTIMA	IUR 00				ΠΒ	IOCK
				STEF	° 20A			AN INSU	LATED CONCE	RETE BLOCK

21. DETERMINE THE NUMBER OF SHORT INSERTS. THERE ARE 100 TO A BAG.

FROM THE "QUANTITY CALCULATIONS" SECTION, 2,419 SHORT INSERTS ARE REQUIRED. ROUNDING UP TO THE NEXT FULL BAG, THERE WOULD BE 25 BAGS OR 2,500 SHORT INSERTS PUT ON THE ORDER. THE ORDER WOULD HAVE 21 EXTRA SHORT INSERTS ON IT.

THE PROGRAM CALCULATES ONE LONG INSERT FOR EVERY STRETCHER AND 1/2 OF A LONG INSERT FOR EACH CORNER. THE SHORT INSERTS ARE THEN CALCULATED AT 30% MORE THAN THE LONG INSERTS. THIS CALCULATION IS BASED UPON A 48" VERTICAL REBAR SPACING REQUIREMENT.

			QUANTI	Y CALCULATIO	NS				
	Omni Bloc Height 1	k Omni Block Height 2				8" CMU Height 1		4" CMU Height 1	TOTALS
INSERTS									
Short Inserts	961	1,518							2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
	Required Pall	ats Extra Block	+/- Pollots	Total Extra	Total Pallets	Quantity	Price	Total ("ost
OMNI BLOCK:	Nequired Pair	EXT a BIOCK	T/- Pallets	TOTALEXTIA	Total Pallets	Quantity	Price	Total	2051
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	\$3	,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95	:	\$702.00
Total Omni Block									\$4,104.00
OTHER CMU BLOCK:									
8 x 8 x 8 Halfs	1.0	108	(0.5)	18	0.5	90	\$1.40	:	\$126.00
8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.6	324	\$1.60		\$518.40
8 x 8 x 16 CMU	4.0	36	0.0	36	4.0	360	\$1.60		\$576.00
8 x 4 x 16 CMU	1.0	168	(0.9)	6	0.1	18	\$1.55		\$27.90
Total Other CMU Block									\$1,220.40
TOTAL BLOCK									\$5,324.40
	Required Ba	gs Extra Foam	+ Bags	Total Extra	Total Bags	Quantity	Price		
INSERTS:		5							
Short Inserts	25	21	0	21	25	2,500	\$0.96	\$2	,400.00
Long Inserts	20	94	0	94	20	2,000	\$1.06	\$2	,120.00
TOTAL INSERTS									\$4,520.00
AIE: 05-05-11			ES IIMA STE	EP 21)		AN II		RETE BLOCK

21A ADJUST AMOUNT OF SHORT INSERTS ON THE ORDER BY ENTERING A POSITIVE WHOLE NUMBER (INSERTS ARE ALWAYS SOLD IN 100 COUNT BAGS) IN THE +/- BAGS CELL.

IN THIS EXAMPLE I IS ENTERED. THIS MEANS THAT THERE ARE NOW 121 EXTRA SHORT INSERTS (21 + 100).

THE ORDER WOULD HAVE 26 BAGS OF SHORT INSERTS ON IT.

			QUANTI	Y CALCULATIO	NS				
	Omni Blo	ck Omni Block				8" CMU		4" CMU	
	Height	1 Height 2				Height 1		Height 1	TOTALS
INSERTS									
Short Inserts	961	1,518						(2,479
Long Inserts	739	1,167							1,906
			WHO	LESALE COST					
	Required Pa	llets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Total	Cost
OMNI BLOCK:									
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	\$3	3,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95		\$702.00
Total Omni Block									\$4,104.00
OTHER CMU BLOCK:									
8 x 8 x 8 Halfs	1.0	108	(0.5)	18	0.5	90	\$1.40		\$126.00
8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.6	324	\$1.60	1	\$518.40
8 x 8 x 16 CMU	4.0	36	0.0	36	4.0	360	\$1.60	1	\$576.00
8 x 4 x 16 CMU Total Other CMU Block	1.0	168	(0.9)	6	0.1	18	\$1.55		\$27.90 \$1,220.40
TOTAL BLOCK									\$5,324.40
	Required E	ags Extra Foam	+ Bags	Total Extra	Total Bags	Quantity	Price		
INSERTS:									
Short Inserts	25	21		121	26	2,600	\$0.96	\$2	2,496.00
Long Inserts	20	94	0	94	20	2,000	\$1.06	\$2	2,120.00
TOTAL INSERTS									\$4,616.00
					I		I		
			EGTIMA						
AIE 05 05 11			ESINA	IUR 00				пв	OCK
			STE	P 21A			AN INS	ULATED CONCR	ETE BLOCK

22. DETERMINE THE NUMBER OF LONG INSERTS. THERE ARE 100 TO A BAG.

FROM THE QUNTITY CALCULATIONS SECTION, 1,906 LONG INSERTS ARE REQUIRED. ROUNDING UP TO THE NEXT FULL BAG, THERE WOULD BE 20 BAGS OR 2,000 LONG INSERTS PUT ON THE ORDER. THE ORDER WOULD HAVE 94 EXTRA LONG INSERTS ON IT, WHICH IS LITTLE MORE THAN IDEAL, BUT BAGS ARE ONLY SOLD IN 100'S.

THE PROGRAM CALCULATES ONE LONG INSERT FOR EVERY STRETCHER AND 1/2 OF A LONG INSERT FOR EACH CORNER. THE SHORT INSERTS ARE THEN CALCULATED AT 30% MORE THAN THE LONG INSERTS. THIS CALCULATION IS BASED UPON A 48" VERTICAL REBAR SPACING REQUIREMENT.

Omni Bloc	k Omni Block							
Height 1	Height 2				8" CMU Height 1		4" CMU Height 1	TOTALS
961	1,518							2,479
739	1,167							1,906
		WHO	LESALE COST					
Required Pall	ets Extra Block	+/- Pallets	Total Extra	Total Pallets	Ouantity	Price	Total (Cost
20.0	56	1.0	146	21.0	1,890	\$1.80	\$3	,402.00
4.0	36	0.0	36	4.0	360	\$1.95	1	\$702.00
								\$4,104.00
1.0	108	(0.5)	18	0.5	90	\$1.40		\$126.00
4.0	48	(0.4)	12	3.6	324	\$1.60	9	\$518.40
4.0	36	0.0	36	4.0	360	\$1.60	9	\$576.00
1.0	168	(0,9)	6	0.1	18	\$1.55		\$27.90
								\$1,220.40
								\$5,324.40
Required Ba	gs Extra Foam	+ Bags	Total Extra	Total Bags	Quantity	Price		
25	21	1	121	26	2,600	\$0.96	\$2	,496.00
20	94	0	94	20	2,000	\$1.06	\$2	,120.00
		-						\$4,616.00
PAGE: 23		ESTIMA	TOR 88				niBl	lock
	961 739 20.0 4.0 1.0 4.0 4.0 1.0 1.0 4.0 4.0 1.0 25 20 20 PAGE: 23	961 1,518 739 1,167 Required Pallets Extra Block 20.0 56 4.0 36 1.0 108 4.0 48 4.0 48 4.0 36 1.0 168 Required Bags Extra Foam 25 21 94 PAGE: 23	961 1,518 739 1,167 WHO Required Pallets Extra Block +/- Pallets 20.0 56 1.0 4.0 36 0.0 1.0 108 (0.5) 4.0 36 0.0 1.0 108 (0.5) 4.0 36 0.0 1.0 168 (0.9) Required Bags Extra Foam + Bags 25 21 1 20 94 0 ESTIMA STE	961 1,518 739 1,167 WHOLESALE COST NUMELESALE COST Required Pallets Extra Block +/- Pallets Total Extra 20.0 56 1.0 146 4.0 36 0.0 36 1.0 108 (0.5) 18 4.0 36 0.0 36 1.0 108 (0.4) 36 1.0 168 (0.9) 6 Required Bags Extra Foam + Bags Total Extra 20 94 0 94	961 1,518 739 1,167 WHOLESALE COST WHOLESALE COST 20.0 56 1.0 146 21.0 4.0 36 0.0 36 4.0 1.0 108 (0.5) 18 0.5 4.0 36 0.0 36 4.0 1.0 108 (0.4) 12 3.6 4.0 36 0.0 36 4.0 1.0 168 (0.9) 6 0.1 Required Bags Extra Foam + Bags Total Extra Total Bags 25 21 1 121 26 26 94 0 94 20 94 20 ESTIMATOR 88 STEP 22	961 1,518 739 1,167 WHOLESALE COST Required Pallets Extra Block +/- Pallets Total Extra Total Pallets 20.0 56 1.0 146 21.0 1,890 4.0 36 0.0 36 4.0 1,890 1.0 108 (0.5) 18 0.5 360 4.0 36 0.0 36 4.0 90 4.0 48 (0.4) 12 3.6 360 1.0 168 (0.9) 6 0.1 90 324 366 0.0 36 4.0 18 Required Bags Extra Foam + Bags Total Extra Total Bags 20 24 0 94 20 2,000 20 24 0 94 20 2,000 PAGE: 23 ESTIMATOR 88 STEP 22 2 2,600	961 1,518 WHOLESALE COST Quantity Price 20.0 56 1.0 146 21.0 4.0 36 0.0 36 4.0 1.0 108 (0.5) 18 0.5 1.0 108 (0.4) 12 3.6 4.0 36 0.0 36 4.0 1.0 108 (0.3) 18 0.5 1.0 168 0.99 6 0.1 Required Bags Extra Foam + Bags Total Extra Total Bags 223 21 1 121 26 26 20 94 0 94 20 \$0.96 \$1.06 PAGE: 23 ESTIMATOR 88 STEP 22 \$0.96 \$1.06	961 1,518 WHOLESALE COST WHOLESALE COST Required Pallets Extra Block +/- Pallets Total Extra Total Pallets 20.0 56 1.0 146 21.0 1,890 \$1.80 \$33 4.0 36 0.0 36 4.0 1,890 \$1.40 \$36 1.0 108 (0.5) 18 0.5 324 \$1.60 \$36 4.0 36 0.91 6 0.1 18 \$1.55 \$360 \$1.40 \$360 \$31.55 \$360 \$31.55 \$360 \$31.55 \$360 \$31.55 \$360 \$31.60

23. DETERMINE THE NUMBER OF BLOCK SHIPMENTS. THERE ARE VARYING WEIGHTS OF BLOCK, BUT USUALLY THERE ARE 13 PALLETS OF BLOCK PER TRUCKLOAD. THE SUM OF THE TOTAL PALLETS COLUMN IS UNDER THE "QUANTITY" COLUMN AT THE LINE ITEM OF "PALLET CHARGES". DIVIDE THIS NUMBER BY 13, THEN ROUND UP AND ENTER THE NEXT WHOLE NUMBER IN THE SHIPMENTS CELL.

IN THIS EXAMPLE 34 PALLETS WOULD REQUIRE 2.62 TRUCKLOADS. THEREFORE, THE NUMBER 3 IS ENTERED UNDER THE "SHIPMENTS" COLUMN AT LINE ITEM - "BLOCK FREIGHT".

ck

	Required Pallets	Extra Block	+/- Pallets	Total Extra	Totanallets	Quantity	Price	Total Cost
OMNI BLOCK:								
Stretchers	20.0	56	1.0	146	21.0	1,890	\$1.80	\$3,402.00
Corners	4.0	36	0.0	36	4.0	360	\$1.95	\$702.00
Total Omni Block								\$4,104.0
OTHER CMU BLOCK:								
8 x 8 x 8 Halfs	1.0	108	(0.5)	18	0.5	90	\$1.40	\$126.00
8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.6	324	\$1.60	\$518.40
8 x 8 x 16 CMU	4.0	36	0.0	36	4.0	360	\$1.60	\$576.00
8 x 4 x 16 CMU	1.0	168	(0.9)	6	0.1	18	\$1.55	\$27.90
Total Other CMU Block								\$1,220.4
TOTAL BLOCK								\$5,324.4
	Required Bags	Extra Foam	+ Bags	Total Extra	Total Bags	Quantity	Price	
INSERTS:				•				
Short Inserts	25	21	1	121	26	2,600	\$0.96	\$2,496.00
Long Inserts	20	94	0	94	20	2,000	\$1.06	\$2,120.00
TOTAL INSERTS								\$4,616.0
TOTAL BLOCK AND INSERTS								\$9.940.4
								,.
FREIGHT: (estimated)						Shipments	Price	
Block Freight						3	\$400	\$1,200.00
Foam Insert Freight							\$600	\$600.00
	_							A
TOTAL FREIGHT	_							\$1,800.0
Pallet Charges						34	\$15.00	\$510.00
Pallet Charges					\rightarrow	34	\$2.00	\$68.00
Pallet Similik Wrap ree							32.00	000.00
TOTAL								\$12,318.40
Pallet Refund (if returned back to origin)						34	(\$11.00)	(\$374.00)
reserverena (n recented back to origin)						54	(911.00)	(001 100)

24. DETERMINE THE NUMBER OF INSERT SHIPMENTS. 42,000 OR 420 BAGS OF INSERTS CAN BE LOADED INTO ONE 53' SEMI VAN. THE SUM OF THE TOTAL BAGS COLUMN IS UNDER 420, THEREFORE THE NUMBER ONE IS ENTERED IN THE "SHIPMENTS" COLUMN AT LINE ITEM - "FOAM INSERT FREIGHT". 25. IN SOME CASES, BLOCK PLANTS WILL ALLOW THE CONTRACTOR TO RETURN UNDAMAGED PALLETS FOR CREDIT. IN THIS EXAMPLE. THE BLOCK PLANT WILL CREDIT THE CONTRACTOR \$11.00 PER RETURNED PALLET. SUBTRACTING THIS AMOUNT FROM THE TOTAL YIELDS A NET COST. ENTER 34 UNDER THE "SHIPMENTS" COLUMN INTO THE LINE ITEM - "PALLET REFUND".

red Pallets Extra Block 20.0 56 4.0 36 1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	+/- Pallets 1.0 0.0 (0.5) (0.4) 0.0 (0.9) + Bags 1 0	Total Extra 146 36 18 12 36 6 Total Extra 121 94	Total Pallets 21.0 4.0 0.5 3.6 4.0 0.1 Total Rags 26 20	Quantity 1,890 360 90 324 360 18 Quantity 2,600 2,000	Price \$1.80 \$1.95 \$1.40 \$1.60 \$1.60 \$1.55 Price \$0.96 \$1.06	Total Cost \$3,402.00 \$702.00 \$4,104.00 \$126.00 \$518.40 \$576.00 \$27.90 \$1,220.40 \$5,324.40 \$5,324.40 \$2,496.00 \$2,120.00
20.0 56 4.0 36 1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	1.0 0.0 (0.5) (0.4) 0.0 (0.9) + Bags 1 0	146 36 18 12 36 6 7 7 0 7 0 121 94	21.0 4.0 0.5 3.6 4.0 0.1 Total Bags 26 20	1,890 360 90 324 360 18 Quantity 2,600 2,000	\$1.80 \$1.95 \$1.40 \$1.60 \$1.60 \$1.55 Price \$0.96 \$1.06	\$3,402.00 \$702.00 \$4,104.00 \$126.00 \$518.40 \$576.00 \$27.90 \$1,220.40 \$5,324.40 \$2,496.00 \$2,120.00
20.0 56 4.0 36 1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	1.0 0.0 (0.5) (0.4) 0.0 (0.9) + Bags 1 0	146 36 18 12 36 6 7 7 0 121 94	21.0 4.0 0.5 3.6 4.0 0.1 Total Rags 26 20	1,890 360 90 324 360 18 Quantity 2,600 2,000	\$1.80 \$1.95 \$1.60 \$1.60 \$1.55 Price \$0.96 \$1.06	\$3,402.00 \$702.00 \$4,104.0 \$126.00 \$518.40 \$576.00 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
4.0 36 1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	0.0 (0.5) (0.4) 0.0 (0.9) + Bags 1 0	36 18 12 36 6 7 Total Extra 121 94	4.0 0.5 3.6 4.0 0.1 Total Rags 26 20	360 90 324 360 18 Quantity 2,600 2,000	\$1.95 \$1.40 \$1.60 \$1.60 \$1.55 Price \$0.96 \$1.06	\$702.00 \$4,104.0 \$126.00 \$518.40 \$576.00 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	(0.5) (0.4) 0.0 (0.9) + Bags 1 0	18 12 36 6 Total Extra 121 94	0.5 3.6 4.0 0.1 Total Rags 26 20	90 324 360 18 Quantity 2,600 2,000	\$1.40 \$1.60 \$1.55 \$1.55 Price \$0.96 \$1.06	\$4,104.0 \$126.00 \$518.40 \$576.00 \$27.90 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	(0.5) (0.4) 0.0 (0.9) + Bags 1 0	18 12 36 6 7 Total Extra 121 94	0.5 3.6 4.0 0.1 Total Rags 26 20	90 324 360 18 Quantity 2,600 2,000	\$1.40 \$1.60 \$1.55 \$1.55 Price \$0.96 \$1.06	\$126.00 \$518.40 \$576.00 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
1.0 108 4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	(0.5) (0.4) 0.0 (0.9) + Bags 1 0	18 12 36 6 7 7 0 7 0 1 2 1 9 4	0.5 3.6 4.0 0.1 Total Rags 26 20	90 324 360 18 Quantity 2,600 2,000	\$1.40 \$1.60 \$1.55 Price \$0.96 \$1.06	\$126.00 \$518.40 \$576.00 \$27.90 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
4.0 48 4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	(0.4) 0.0 (0.9) + Bags 1 0	12 36 6 Total Extra 121 94	3.6 4.0 0.1 Total Rags 26 20	324 360 18 Quantity 2,600 2,000	\$1.60 \$1.60 \$1.55 Price \$0.96 \$1.06	\$518.40 \$576.00 \$27.90 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
4.0 36 1.0 168 ired Bags Extra Foam 25 21 20 94	0.0 (0.9) + Bags 1 0	36 6 Total Extra 121 94	4.0 0.1 Total Bags 26 20	360 18 Quantity 2,600 2,000	\$1.60 \$1.55 Price \$0.96 \$1.06	\$576.00 \$27.90 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
1.0 168 ired Bags Extra Foam 25 21 20 94	(0.9) + Bags 1 0	6 Total Extra 121 94	0.1 Total Rags	18 Quantity 2,600 2,000	\$1.55 Price \$0.96 \$1.06	\$27.90 \$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
ired Bags Extra Foam 25 21 20 94	+ Bags 1 0	Total Extra 121 94	Total Rags	Quantity 2,600 2,000	Price \$0.96 \$1.06	\$1,220.4 \$5,324.4 \$2,496.00 \$2,120.00
ired Bags Extra Foam 25 21 20 94	+ Bags 1 0	Total Extra 121 94	Total Rags	Quantity 2,600 2,000	Price \$0.96 \$1.06	\$5,324.4 \$2,496.00 \$2,120.00
ired Bags Extra Foam 25 21 20 94	+ Bags 1 0	Total Extra 121 94	Total Rags 26 20	Quantity 2,600 2,000	Price \$0.96 \$1.06	\$2,496.00 \$2,120.00
25 21 20 94	1 0	121 94	26 20	2,600 2,000	\$0.96 \$1.06	\$2,496.00 \$2,120.00
25 21 20 94	1 0	121 94	26 20	2,600 2,000	\$0.96 \$1.06	\$2,496.00 \$2,120.00
20 94	0	94	20	2,000	\$1.06	\$2,120.00
						\$4,616.0
						\$9,940.4
				Chiamanta	Drive	
				Snipments	Price	61 200 00
				$\left(\begin{array}{c}3\\\end{array}\right)$	\$400	\$1,200.00
					\$600	\$600.00
						\$1,800.0
				34	\$15.00	\$510.00
				34	\$2.00	\$68.00
						\$12,318.40
				34	(\$11.00)	(\$374.00)
					(0.1.1.1)	(
		ESTIMA	ESTIMATOR 88	ESTIMATOR 88	ESTIMATOR 88 ATERS 24 \$ 25	Shipments Price 3 \$400 1 \$600 34 \$15.00 34 \$2.00 34 \$2.00 34 \$11.00) ESTIMATOR 88 GTERG 24 \$ 25

THE QUICK ESTIMATE SECTION IS NOT PART OF AN ACCURATE TAKE OFF FOR MATERIALS, BUT CAN BE A USEFUL TOOL.

OUICK ESTIMATE

- A. ENTER THE WALL HEIGHT
- B. ENTER THE WALL LENGTH
- C. ENTER THE LOCAL SQ. FT. PRICE FOR OMNI BLOCK.

IN THIS EXAMPLE, THE WALL HEIGHT IS 11'4" OR 11.33, THE WALL LENGTH IS 200'0" AND THE PRICE PER SQUARE FOOT IS \$3.15.

THE QUICK ESTIMATE IS \$8,498.

THE NET BLOCK REQUIRED WOULD BE +/- 2164.

IF COMPARED TO THE EXAMPLE PROVIDED IN THIS TURORIAL, MOST OF THE VARIANCE IS ATTRIBUTED TO A SIGNIFICANTLY LOWER PERCENTAGE OF EGRESS THAN NORMAL IN THE EXAMPLE.

OUICK ESTIMATE

40.0.1.001		
Wall Height		Wall
Lineal Feet		Linea
Total Square Feet	0	Tota
Price per Sq. Ft. Quick Estimate	\$0.00 \$0	Price Quicl
Gross Block	0	Gross
Less Egress	15%	Less
Net Block	0	Net E

Wall Height	11.33
Lineal Feet	200.00
Total Square Feet	2,266
Price per Sq. Ft.	\$3.75
Quick Estimate	\$8,498
Gross Block	2,546
Less Egress	15%

DATE: 03-05-17	PAGE: 26	ESTIMATOR 88 QUICK ESTIMATE	AN INSULATED CONCRETE BLOCK

						WALL	. INFORMATIO	8						WINI	DOWS AND I	DOORS	
			L		_										UPPeret	amprove at	00.177
	RESETFO	JKIM	Number of Omni Block Wall Height Number of 8" CMU Wall Heights	1									QUANTITY 4	4.00	6.00	24.00	SQ. FT. 96.00
			Number of 4" CMU Wall Heights	1									2	2.00	4.00	8.00	16.00
				Orași Blaz	h Oraci Black				81 CM		AL CALL		3	5.33	5.33	15.99	85.23
				Height 1	Height 2				Height 1		Height 1			<u> </u>			
			10-0 H-0-4	10.00	12.00				2.00		0.32						
			Top of Wall Bond Beam (Yes / No)	Yes	Yes				Yes		No	_					
			Wall Length	100.00	100.00				216.00		16.00						
			Number of Corners Total Windows and Doors	4	5				-								
			Total Wall Square Feet	1,000.00	1,200.00				432.00		5.28					-	
			Total Square Feet of Windows and	Doors 197.23													
			Vertical Height of Windows and Do	ors 47.99													
						QUANTIT	V CALCULATI	IONS									
				Orași Pla	b Orest Black				ST CALL		an contr						
			BLOCK	Height 1	K Omn Block Height 2				Height 1		Height 1	TOTALS					
			Stretchers	685	1,059						-	1,744					
			Corners	108	216							324					
			8 x 8 x 16 Bond Beam CMU	72 75	75				162			312					
			8 x 8 x 16 CMU						324			324					
			8 x 4 x 16 CMU								12	12					
			INSERTS														
			Short Inserts	961	1,518							2,479					
			Long Inserts	739	1,167							1,906					
						WHO	DLESALE COST										
	Item	Price		Required Pal	ets Extra Block	+/- Pallets	Total Extra	Total Pallets	Quantity	Price	Tota	l Cost		<u> </u>			
			OMNI BLOCK:														
	Stretchers Corners	\$1.80 \$1.95	Stretchers Corners	20.0	56	0.0	146	21.0	1,890	\$1.80 \$1.95		\$3,402.00 \$702.00			<u> </u>		
			Total Omni Block									\$4,104.00					
			OTHER CAU BLOCK.														
	8 x 8 x 8 Halfs	\$1.40	8 x 8 x 8 Halfs	1.0	108	(0.5)	18	0.5	90	\$1.40		\$126.00					
	8 x 8 x 16 CMU	\$1.60	8 x 8 x 16 Bond Beam CMU	4.0	48	(0.4)	12	3.6	324	\$1.60		\$518.40					
	8 x 8 x 16 Bond Beam CMU 8 x 4 x 16 CMU	\$1.60 \$1.55	8 x 8 x 16 CMU 8 x 4 x 16 CMU	4.0	36	0.0 (0.9)	36	4.0	360	\$1.60 \$1.55		\$576.00 \$27.90					
			Total Other CMU Block			(0.0)						\$1,220.40					
			TOTAL BLOCK									\$5 334 40					
			TOTAL BLOCK														
				Required Ba	gs Extra Foam	+ Bags	Total Extra	Total Bags	Quantity	Price							
	Short Inserts	\$0.96	INSERTS: Short Inserts	25	21	1	121	26	2,600	\$0.96		\$2,496.00					
	Long Inserts	\$1.06	Long Inserts	20	94	0	94	20	2,000	\$1.06		\$2,120.00					
			TOTAL INSERTS									\$4.616.00					
			TOTAL DISLATS									34,010.00			TOTALS		
			TOTAL BLOCK AND INSERTS									\$9,940.40	9			47.99	197.23
			FREIGHT: (estimated)						Shipments	Price				QL	ICK ESTIM	ATE	
	Block Freight	\$400	Block Freight						3	\$400		\$1,200.00					
	Foam Insert Freight	\$600	Foam Insert Freight						1	\$600		\$600.00	Wall Height Lineal Feet				11.33 200.00
			TOTAL FREIGHT									\$1,800.00	Total Squar	re Feet			2,266
	Pullet Channel	\$15.00	Pullet Channel							\$15.00		8610.00	Deles and Ca				61.76
	Pallet Shrink Wrap Fee	\$2.00	Pallet Shrink Wrap Fee						34	\$2.00		\$68.00	Quick Estin	nate			\$8,498
			TOTAL								\$	12,318.40	Gross Block Less Egress				2,546
	Pallet Refund	\$11.00	Pallet Refund (if returned back to orig	in)					34	(\$11.00)		(\$374.00)	Net Block				2164
			Estimate Prepared By:														
ATE: 02.	-05-17	P/	AGE: 27		F	STIM	ATO	R 22							-		
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				GINICI	E-P/	GE (OM			NRM				AN			
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	PROJECT		OMNI BLOCK								8" STANDA	RD CMU		4" STANDARD CMU			WIN	WINDOWS AND DOORS			
		HEIGHT								HEIGHT				HEIGHT			QUANTITY	WIDTH	H HE	IGHT	
JOB NAME																					
		BOND BEAM								BOND BEA	м			BOND BEAM	NO						
- BUILDER		YES / NO								YES / NO	,									_	
-		LENCTU		-				_		LENCTU			-	LENGTH						_	
-		LENGTH		-				_		LENGTH				LENGTH						-	
DATE				-																+	
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CONTACT				-																	
PHONE				_									++							_	
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NOTES				_																_	
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	-	TOTALS								TOTALS			-	TOTALS						-	
		TOTALS								TOTAL				TOTALS						+	
		CORNERS																			
		WINDOWS/ DOORS																		_	
																				+	
			OTHER CMU																		
		CMU	HEIGHT	LENG	тн :	SQ FT														_	
	-	STEM											_							_	
		012.0		-																-	
		ABOVE		_																_	
		GARAGE											+							_	
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