

## Structural Glazed Tile Detailing Handbook

Prepared by: Elgin Butler Company Technical Services

<sup>\*</sup> Drawings are for illustrative purposes only. Please check with the plant for current size and shape information.

#### **4W SERIES STRUCTURAL GLAZED UNITS**

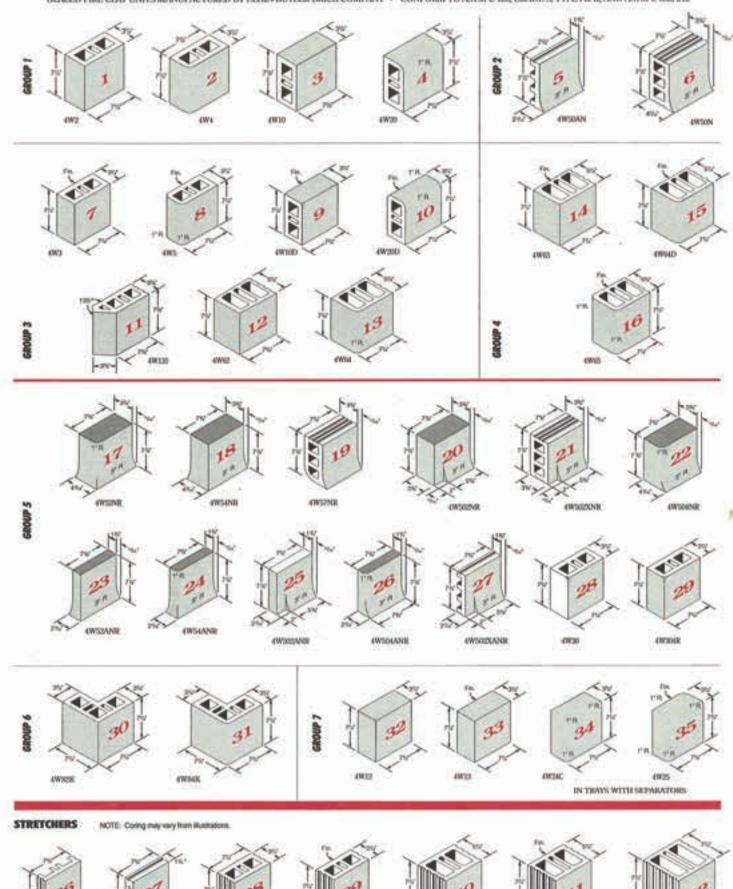
4WA

OWCA

6Wm/sm

(8" X 8" NOMINAL FACE SIZE)

GLAZED FIRE CLAY UNITS MANUFACTURED BY ELGIN-BUTLER BRICK COMPANY . CONFORM TO ASTM C DB, GRADE S, TYPE I & II, AND ASTM C 652/212



(Willia/m)

4MY0w/wn

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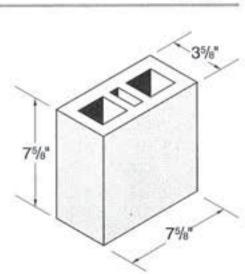
<sup>\*</sup> Equivalent shape, when rotated 90°

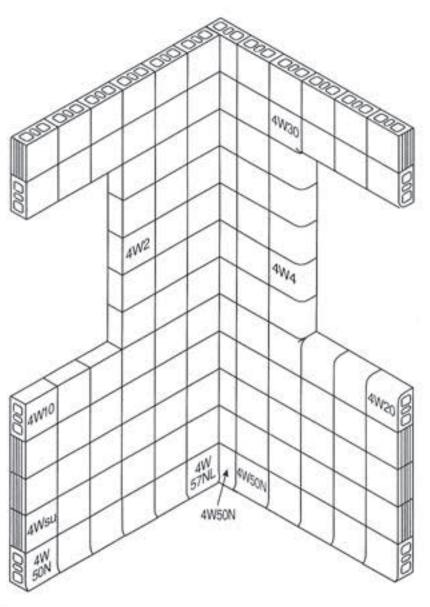
Nominal dimensions: 8" x 8" x 4"

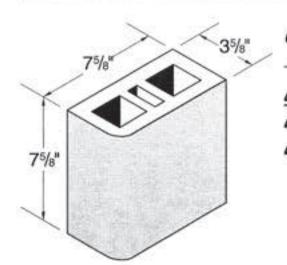
Note: The terms reveal and return are used only when the applicable surfaces are finished (glazed).



GROUP 1		Square quoin, 4" wall (equivalent to 4W10, rotated 90°)					
4 W 2	4	-	8" LENGTH (nominal dimension)				
4 W 2	W	-	8" HEIGHT (nominal dimension)				
4 W 2	2	-	QUOIN, SQUARE END WITH 4" RETURN				





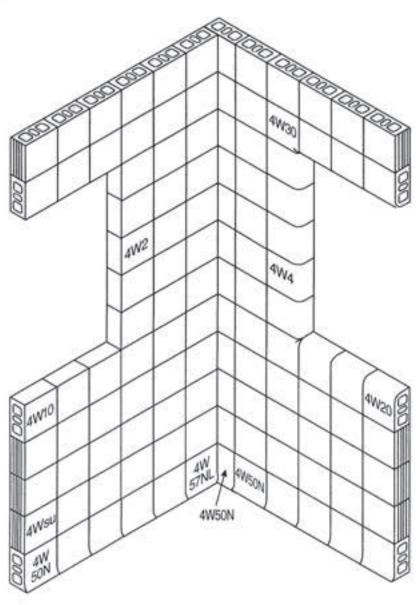


#### GROUP 1 Bullnose quoin, 4" wall (equivalent to 4W20, rotated 90°)

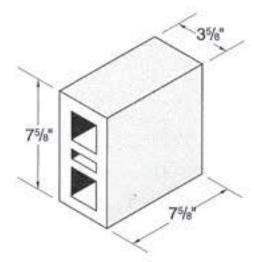
4 w 4 4 = 8" LENGTH (nominal dimension)

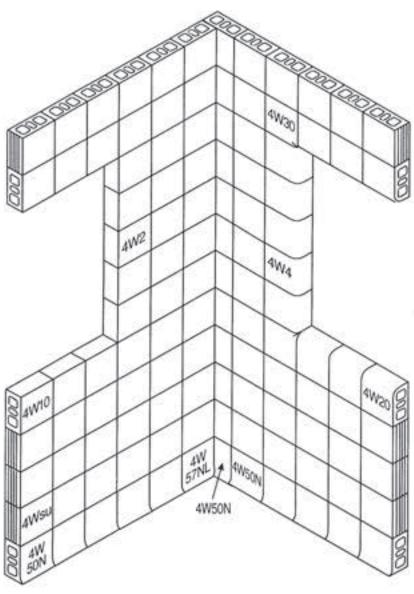
W = 8" HEIGHT (nominal dimension)

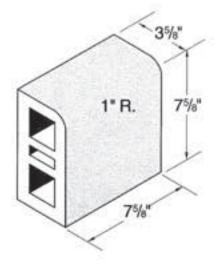
4 = VERTICAL BULLNOSE WITH 4" RETURN



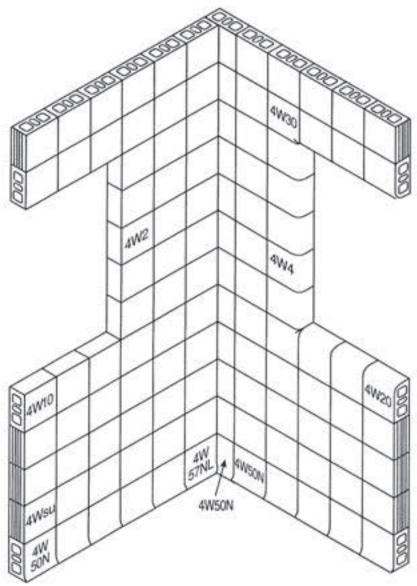
GROUP 1	Square sill, 4" wall (equivalent to 4W2, rotated 90°)					
4 W 10	4 = 8" LENGTH (nominal dimension)					
4 <u>W</u> 10	W = 80 HEIGHT (nominal dimension)					
4 W <u>10</u>	10 = HORIZONTAL SQUARE EDGES WITH 4" REVEAL					





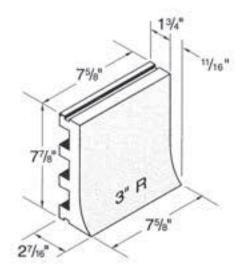


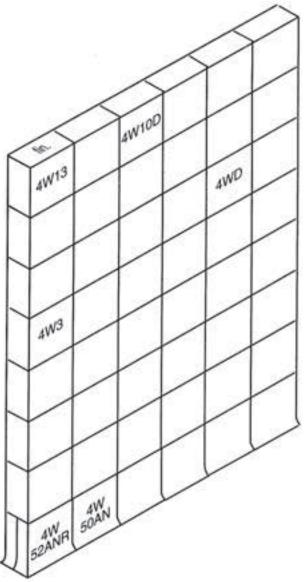
GROUP 1		Bullnose sill, 4" wall (equivalent to 4W4, rotated 90°)				
4 W 20	4		8º LENGTH (nominal dimension)			
4 W 20	W		8º HEIGHT (nominal dimension)			
4 W 20	20	-	UPPER EDGE HORIZONTAL BULLNOSE WITH 4" REVEAL			



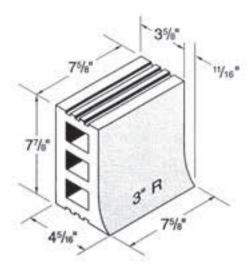
#### **4W50AN**

GROUP 2					Non-recess base soap stretcher				
4	w	50	A	N	4	*	8" LENGTH (nominal dimension)		
4	W	50	A	N	W	-	8" HEIGHT (nominal dimension)		
4	w	50	A	N	50	=	COVE BASE		
4	W	50	A	N	A	*	SOAP		
4	W	50	A	N	N	=	NON-RECESSED		

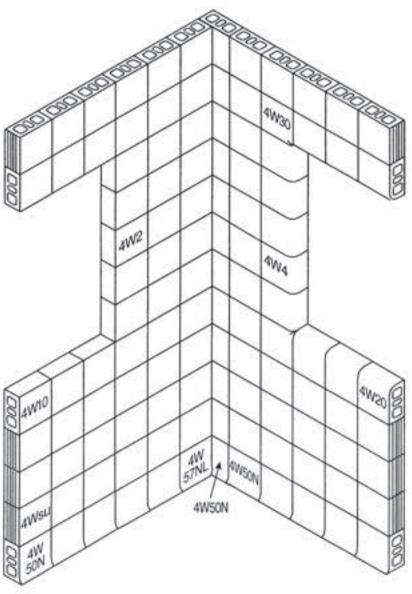




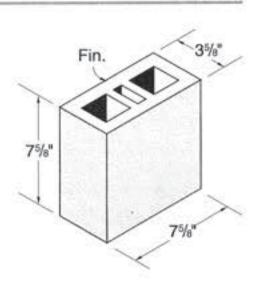
#### **4W50N**

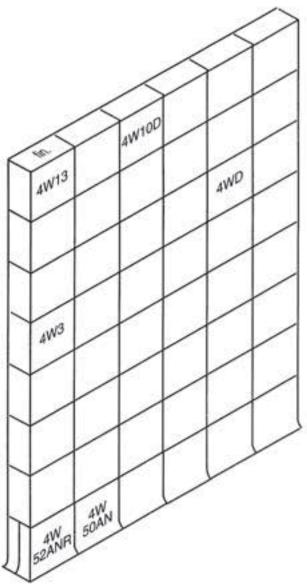


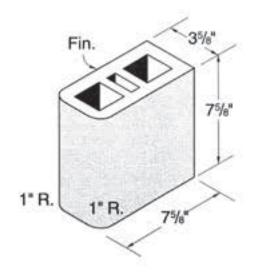
G	GROUP 2			Non-recess base stretcher			
4	w	50	N	4	=	8" LENGTH (nominal dimension)	
4	W	50	N	W	-	8" HEIGHT (nominal dimension)	
4	W	50	N	50	-	COVE BASE	
4	W	50	N	N	-	NON-RECESSED	



G	RO	UP 3	Square closure, 4" wall (equivalent to 4W10D, rotated 90°)				
4	w	3	4	**	8" LENGTH (nominal dimension)		
4	W	3	W	in	8" HEIGHT (nominal dimension)		
4	W	3	3		QUOIN END DOUBLE FACED WITH 4" RETURN		





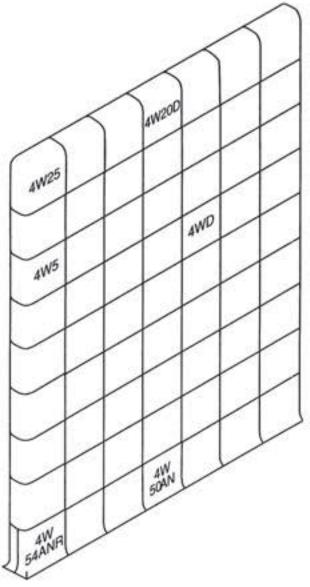


GROUP 3	Bullnose closure, 4" wall (equivalent to 4W20D, rotated 90°)
4 W 5	4 = 8" LENGTH (nominal dimension

4 W 5 4 = 8" LENGTH (nominal dimension)

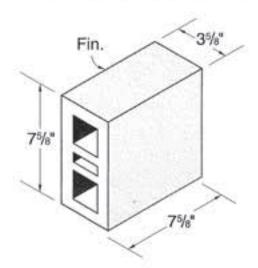
4 W 5 W = 8" HEIGHT (nominal dimension)

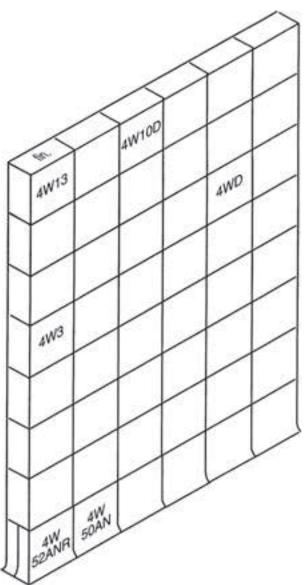
5 = DOUBLE VERTICAL BULLNOSE END, DOUBLE FACED WITH 4" RETURN



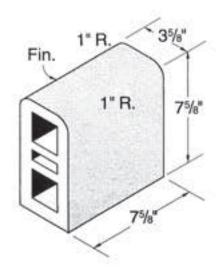
## **4W10D**

RO	UP 3	8	Square sill cap, 4" wall (equivalent to 4W3, rotated 90°)				
w	10	D	4		8º LENGTH (nominal dimension)		
W	10	D	W		8" HEIGHT (nominal dimension)		
W	<u>10</u>	D	10	-	HORIZONTAL SQUARE EDGES WITH 4" REVEAL		
W	10	D	D	*	DOUBLE FACED		
	w w w	W 10 W 10 W 10 W 10 W 10	<u>W</u> 10 D W <u>10</u> D	W 10 D 4 W 10 D W W 10 D 10	W 10 D 4 - W 10 D W - W 10 D 10 -		

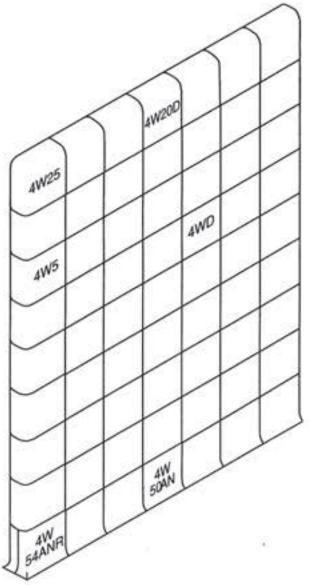




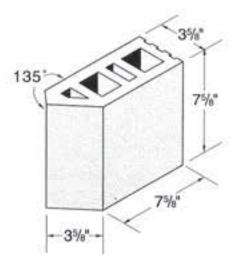
#### **4W20D**

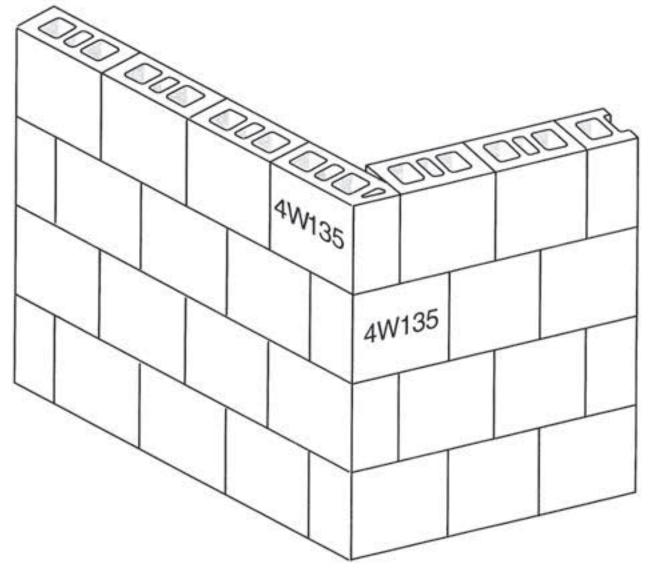


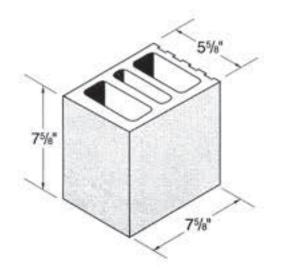
G	GROUP 3			Bu (eq	Bullnose sill cap, 4" wall (equivalent to 4W5, rotated 90°)					
4	w	20	D	4	-	8" LENGTH (nominal dimension)				
4	W	20	D	w	*	8" HEIGHT (nominal dimension)				
4	W	<u>20</u>	D	20	*	DOUBLE HORIZONTAL BULLNOSE				
4	W	20	D	D	-	DOUBLE FACED				



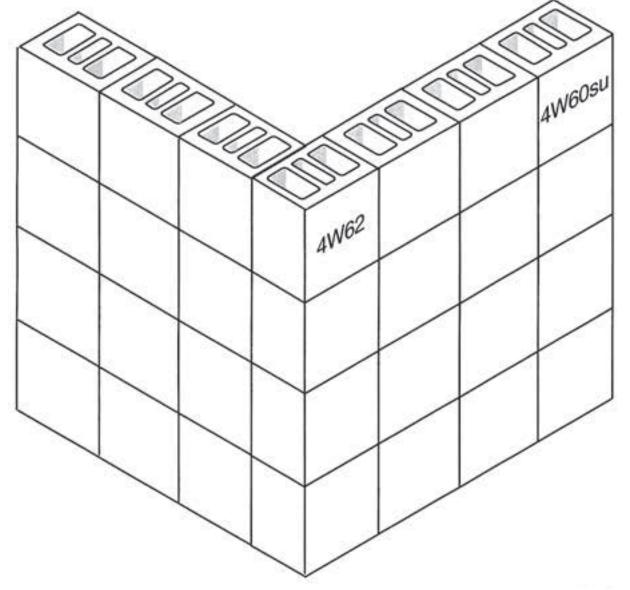
135° corner, 4" wall				
4 = 8" LENGTH (nominal dimension)				
W = 8" HEIGHT (nominal dimension)				
135 = 135° ANGLE (45° corner)				



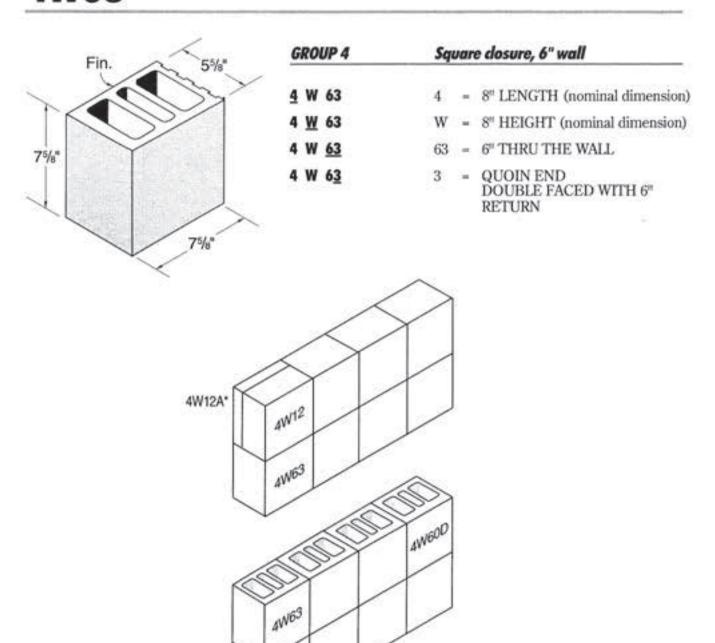




G	RO	UP 3	Square quoin, 6" wall					
4	w	62	4		8" LENGTH (nominal dimension)			
4	W	62	W	-	8" HEIGHT (nominal dimension)			
4	W	62	62	-	6" THRU THE WALL			
4	W	6 <u>2</u>	2	*	QUOIN SQUARE END			



GROUP 3	Bullnose quoin, 6" wall	5%*
4 W 64	4 = 8" LENGTH (nominal dimension)	
1 <u>W</u> 64	W = 8" HEIGHT (nominal dimension)	
W <u>64</u>	64 = 6" THRU THE WALL 75%"	<u> </u>
W 64	4 = VERTICAL BULLNOSE WITH 6" RETURN	
	4W64	4W60sU



\*This shape is usually cut to specification, either at the plant or at the job site.

52NA

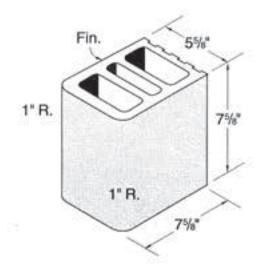
4W52ANL

#### **4W64D**

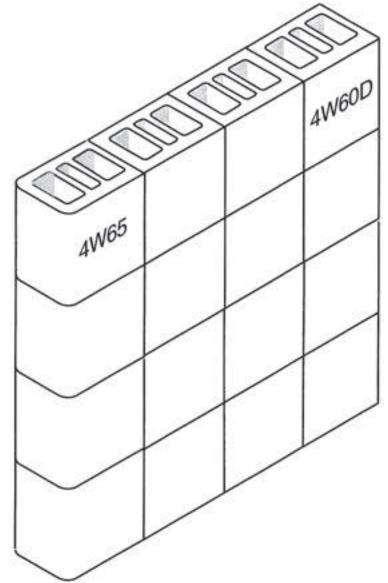
GROUP 4		6"	bull	nose return, 2 faced Fin. 5%"
4 W 64	D	4	36	8" LENGTH (nominal dimension)
4 <u>W</u> 64	D	W	ú	8" HEIGHT (nominal dimension)
W 64	D	64		6" THRU THE WALL 75%"
4 W 64	D	4	-	VERTICAL BULLNOSE WITH 6" RETURN
W 64	D	D		DOUBLE FACED 75%
				4W64D

Structural Glazed Units

## 4W65

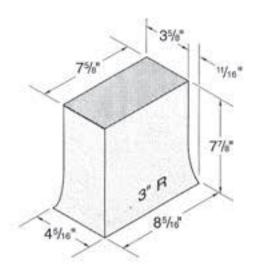


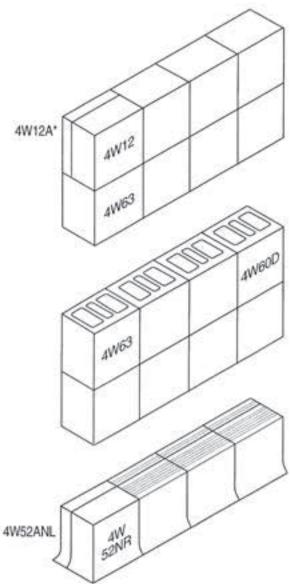
GROUP 4	Bullnose dosure, 6" wall					
4 W 65	4 = 8" LENGTH (nominal dimension)					
4 <u>W</u> 65	W = 8" HEIGHT (nominal dimension)					
4 W 65	65 = 6" THRU THE WALL					
4 W 6 <u>5</u>	<ul> <li>5 - DOUBLE VERTICAL BULLNOSE END, DOUBLE FACED</li> </ul>					



#### **4W52NR**

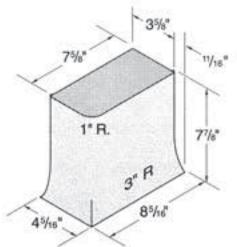
G	RO	UP 5			Non-recess base square quoin						
4	w	52	N	R	4		8" LENGTH (nominal dimension)				
4	W	52	N	R	W	**	8" HEIGHT (nominal dimension)				
4	W	52	N	R	52	$\rightarrow$	COVE BASE				
4	W	5 <u>2</u>	N	R	2	-	QUOIN, SQUARE END WITH 4" RETURN				
4	W	52	N	R	N	**	NON-RECESSED				
4	W	52	N	R	R	ast.	RIGHT HAND				



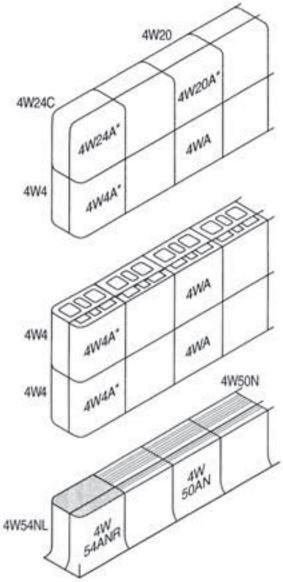


\*This shape is usually cut to specification, either at the plant or at the job site.

#### **4W54NR**



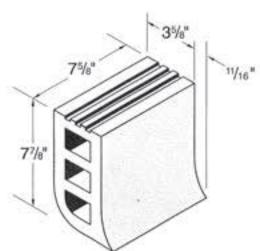
			Non-recess base bullnose quoin						
54 N	R	4	=	8" LENGTH (nominal dimension)					
54 N	R	W	=	8" HEIGHT (nominal dimension)					
54 N	R	54	77	COVE BASE					
5 <u>4</u> N	R	4	-	VERTICAL BULLNOSE					
54 <u>N</u>	R	N	=	NON-RECESSED					
54 N	R	R	-	RIGHT HAND					
5	4 N 4 N 4 N	4 NR 4 NR 4 NR 4 <u>N</u> R	4 NR W 4 NR 54 4 NR 4 NR N	4 NR W = 4 NR 54 = 4 NR 4 = 4 NR N =					

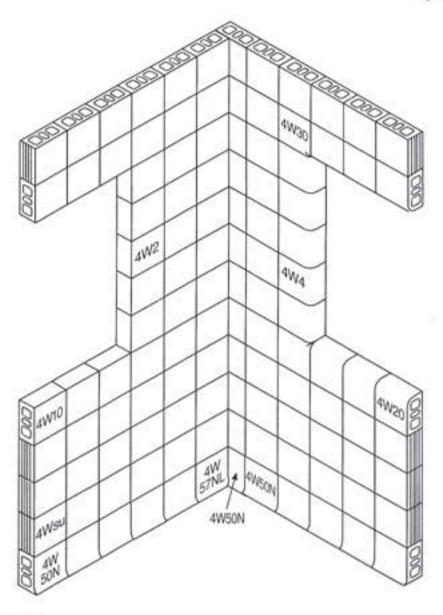


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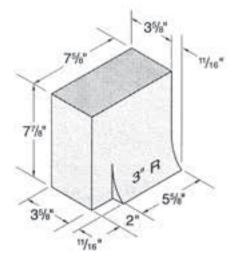
#### **4W57NR**

G	RO	UP 5			Non-recess base fitting						
4	w	57	N	R	4	-	8" LENGTH (nominal dimension)				
4	W	57	N	R	W	-	8" HEIGHT (nominal dimension)				
4	W	57	N	R	57	-	COVE BASE				
4	W	57	N	R	7		INTERNAL SQUARE CORNER				
4	W	57	N	R	N		NON-RECESSED				
4	W	57	N	R	R		RIGHT HAND				

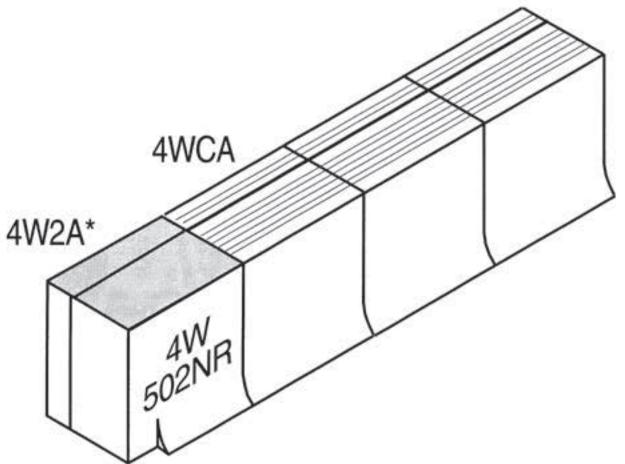




#### 4W502NR



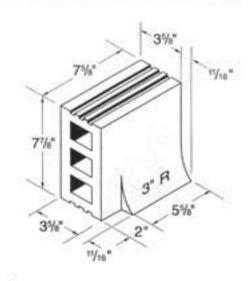
G	RO	UP 5			Non-recess base square jamb						
4	W	502	N	R	4	-	8" LENGTH (nominal dimension)				
4	W	502	N	R	W	-	8" HEIGHT (nominal dimension)				
4	W	<u>50</u> 2	N	R	50	-	COVE BASE				
4	W	502	N	R	2	-	QUOIN WITH 4" RETURN				
4	W	502	N	R	N	**	NON-RECESSED				
4	W	502	N	R	R	**	RIGHT HAND				
7	**	301		n	K	-	RIGHT HELD				

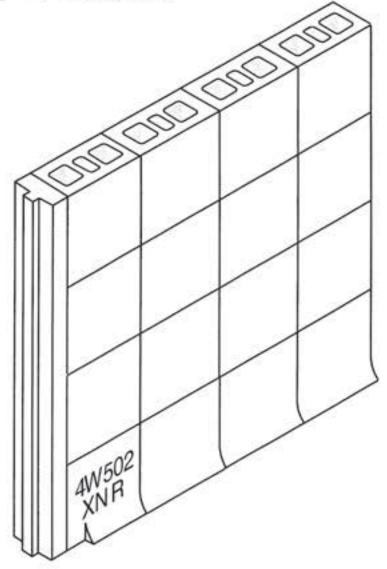


\*This shape is usually cut to specification, either at the plant or at the job site.

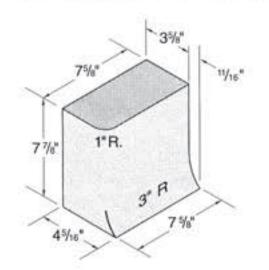
## **4W502XNR**

G	RO	UP 5				No	Non-recess base door jamb				
4	w	502	X	N	R	4	-	8" LENGTH (nominal dimension)			
4	W	502	X	N	R	W	=	8" HEIGHT (nominal dimension)			
4	W	<u>502</u>	X	N	R	50	*	COVE BASE			
4	W	50 <u>2</u>	X	N	R	2	=	QUOIN SQUARE END			
4	W	502	X	N	R	X	***	COVE BASE STARTER ELIMINATES QUOIN			
4	W	502	X	N	R	N	*	NON-RECESSED			
Δ	w	502	¥	N	R	R		RIGHT HAND			



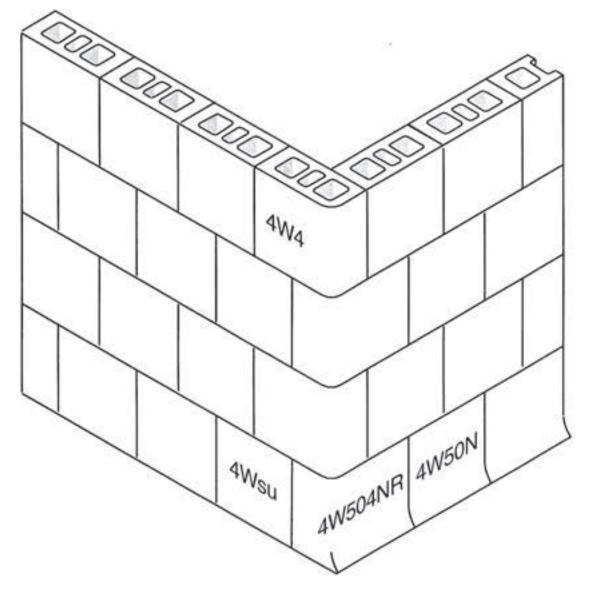


#### **4W504NR**



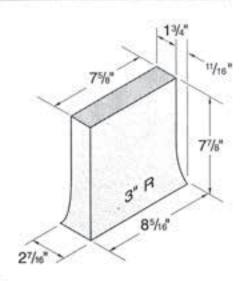
G	RO	UP 5	_		No	Non-recess base bullnose jamb					
4	w	504	N	R	4	*	8" LENGTH (nominal dimension)				
4	W	504	N	R	W	-	8" HEIGHT (nominal dimension)				
4	W	<u>50</u> 4	N	R	50	-	COVE BASE				
4	W	504	N	R	4	-	VERTICAL BULLNOSE				
4	W	504	M	R	N	*	NON-RECESSED				

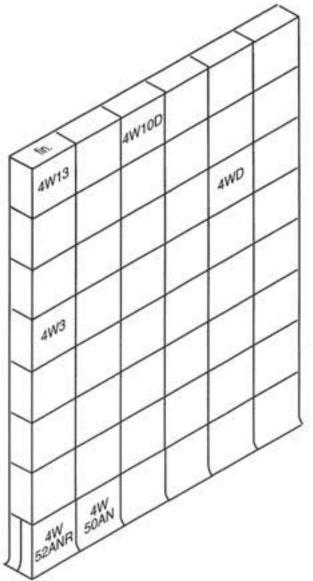
R = RIGHT HAND



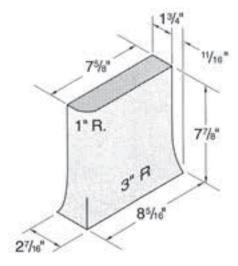
#### 4W52ANR

G	RO	UP 5				Non-recess base soap square quoin					
4	w	52	A	N	R	4	ez.	8" LENGTH (nominal dimension)			
4	W	52	A	N	R	W		8" HEIGHT (nominal dimension)			
4	W	52	A	N	R	52		COVE BASE			
4	W	5 <u>2</u>	A	N	R	2		QUOIN SQUARE END			
4	w	52	A	N	R	A		2" SOAP			
4	W	52	A	N	R	N	-	NON-RECESSED			
4	w	52	A	N	R	R		RIGHT HAND			

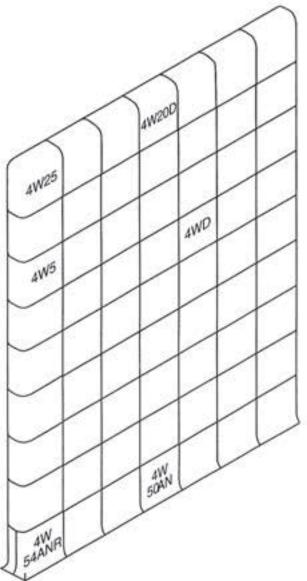




#### **4W54ANR**

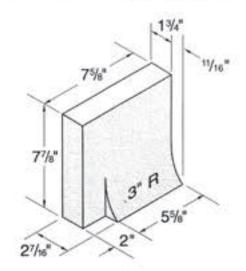


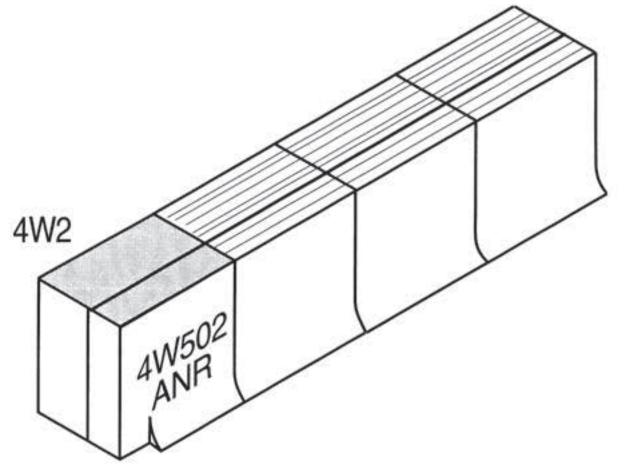
G	RO	UP 5				Non-recess base soap bullnose quoin						
4	w	54	A	N	R	4		8" LENGTH (nominal dimension)				
4	W	54	A	N	R	W	*	8" HEIGHT (nominal dimension)				
4	W	<u>54</u>	A	N	R	54	**	COVE BASE				
4	W	54	A	N	R	4	-	VERTICAL BULLNOSE				
4	W	54	A	N	R	Α	-	2" SOAP				
4	W	54	A	N	R	N	-	NON-RECESSED				
4	W	54	A	N	R	R	-	RIGHT HAND				



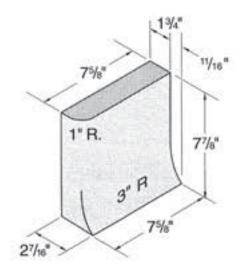
#### **4W502ANR**

GROUP 5						No	Non-recess base soap square jamb				
4	w	502	A	N	R	4	-	8" LENGTH (nominal dimension)			
4	w	502	A	N	R	W		8" HEIGHT (nominal dimension)			
4	W	502	A	N	R	50	-	COVE BASE			
4	w	50 <u>2</u>	A	N	R	2	-	QUOIN SQUARE END			
4	w	502	A	N	R	Α	_	2" SOAP			
4	W	502	A	N	R	N	=	NON-RECESSED			
4	w	502	A	H	R	R		RIGHT HAND			





#### **4W504ANR**



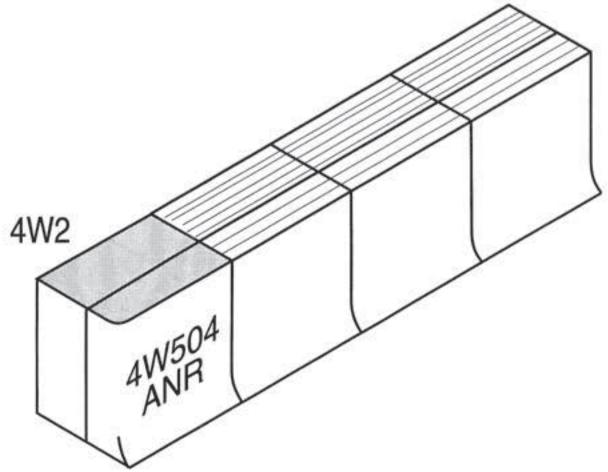
# GROUP 5 Non-recess base soap bullnose jamb 4 W 504 A N R 4 = 8° LENGTH (nominal dimension) 4 W 504 A N R W = 8° HEIGHT (nominal dimension) 4 W 504 A N R 50 = COVE BASE

VERTICAL BULLNOSE

4 W 504 A N R A - 2" SOAP

4 W 504 A N R N - NON-RECESSED

W 504 A N R R - RIGHT HAND



#### **4W502XANR**

#### GROUP 5 Non-recess base soap square jamb

4 W 502 X A N R 4 - 8" LENGTH (nominal dimension)

4 W 502 X A N R W - 8" HEIGHT (nominal dimension)

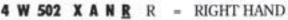
4 W 502 X A N R 50 - COVE BASE

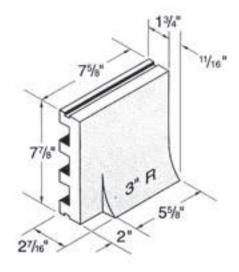
4 W 502 X A N R 2 - QUOIN SQUARE END

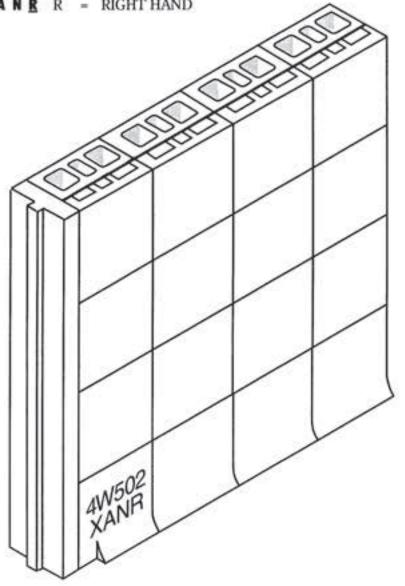
4 W 502 X A N R X - COVE BASE STARTER ELIMINATES QUOIN

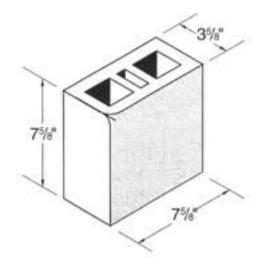
4 W 502 X A N R A - 2" SOAP

4 W 502 X A N R N - NON-RECESSED

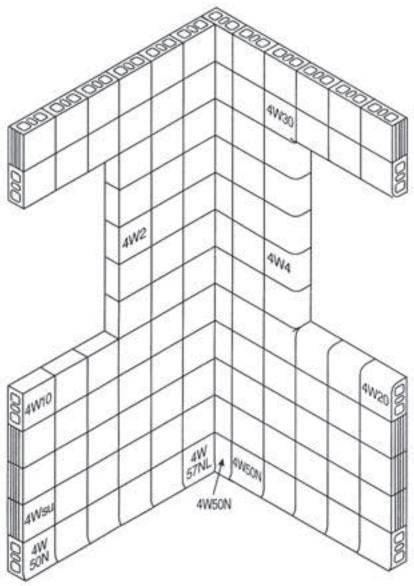






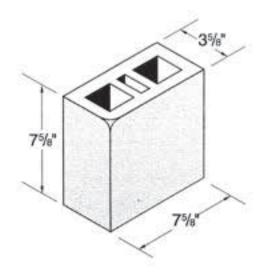


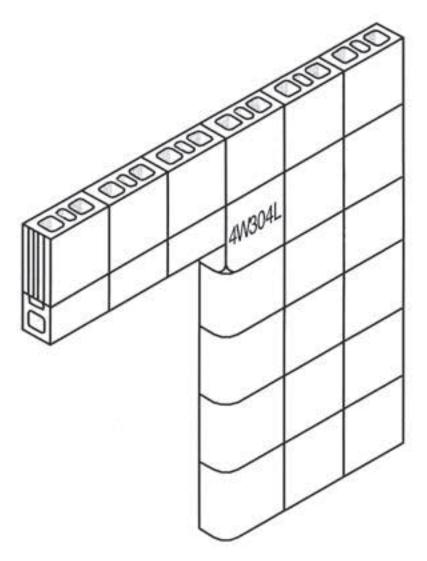
GROUP 5			Double bullnose mitre					
4	W	30	4		8" LENGTH (nominal dimension)			
4	W	30	W	=	8" HEIGHT (nominal dimension)			
4	W	30	3	×	MITRE			
4	W	30	0	*	FACE ENTIRELY IN THE FIELD			
					2			



## 4W304R

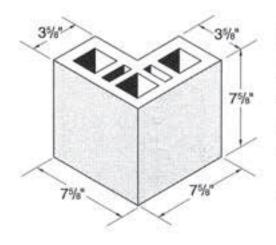
G	RO	UP 5		Square-to-bullnose transition				
4	w	304	R	4		8º LENGTH (nominal dimension)		
4	W	304	R	W	-	8" HEIGHT (nominal dimension)		
4	W	<u>3</u> 04	R	3	*	MITRE		
4	W	3 <u>0</u> 4	R	0	-	FACE ENTIRELY IN THE FIELD		
4	W	304	R	4	-	CHANGE FROM HORIZONTAL TO VERTICAL BULLNOSE		
4	W	304	R	R	*	RIGHT HAND		



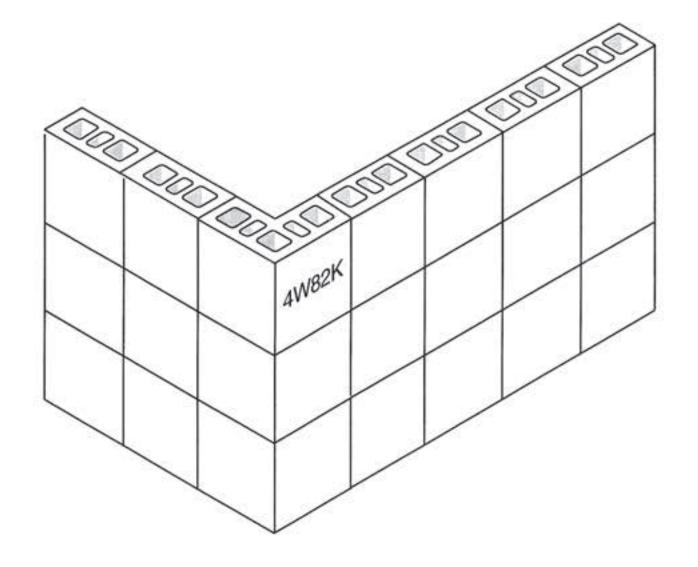


29

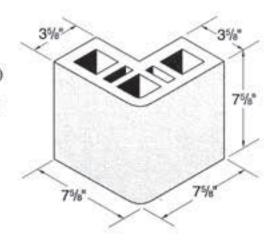
#### 4W82K

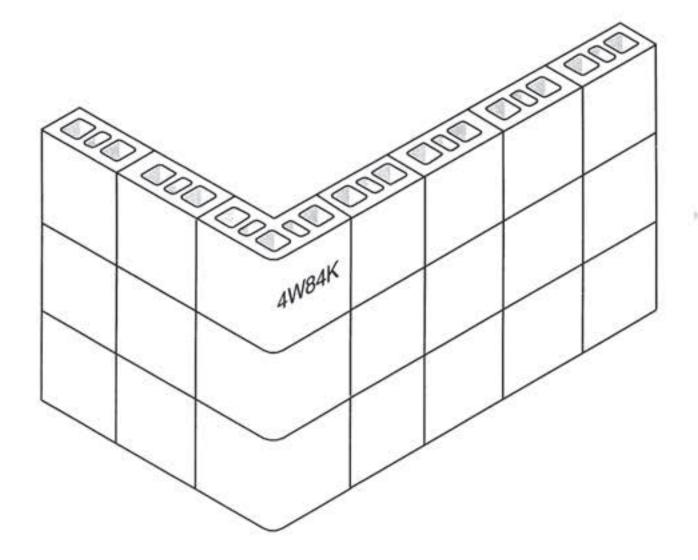


G	RO	UP 6	<u> </u>	Square 8" return, 4" wall					
4	w	82	K	4	-	8" LENGTH (nominal dimension)			
4	W	82	K	W	-	8" HEIGHT (nominal dimension)			
4	W	82	K	82	-	8" THRU THE WALL			
4	W	8 <u>2</u>	K	2	*	QUOIN SQUARE END			
4	W	82	K	K	-	4" BED, 8" RETURN, NO REVEAL			

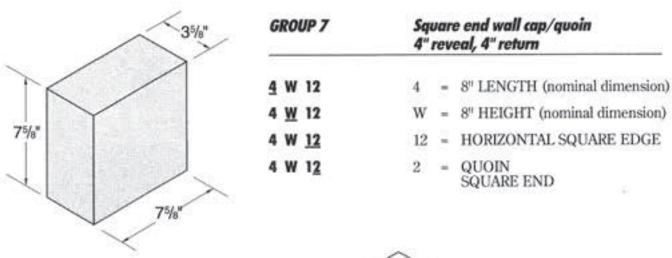


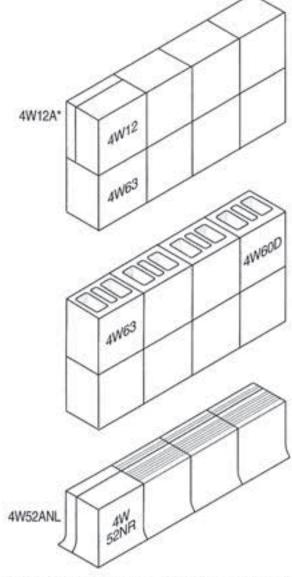
G	RO	UP 6		Bullnose 8" return, 4" wall				
4	w	84	K	4	-	8" LENGTH (nominal dimension)		
4	W	84	K	W	$\tilde{\boldsymbol{x}}$	8" HEIGHT (nominal dimension)		
4	W	84	K	84		8º THRU THE WALL		
4	W	84	K	4		VERTICAL BULLNOSE		
4	W	84	K	K		4" BED, 8" RETURN, NO REVEAL		





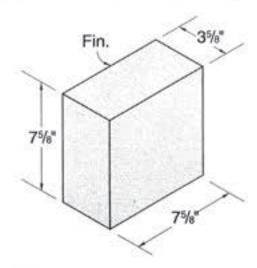
Structural Glazed Units 31

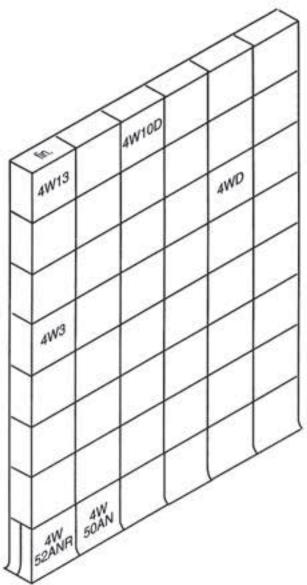




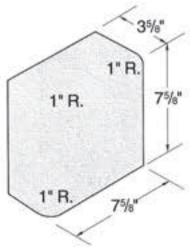
\*This shape is usually cut to specification, either at the plant or at the job site.

GROUP 7		Square end wall cap/closure 4" reveal, 4" return				
4 W 13	4		8" LENGTH (nominal dimension)			
4 <u>W</u> 13	W	*	8" HEIGHT (nominal dimension)			
4 W <u>13</u>	13	**	HORIZONTAL SQUARE EDGE			
4 W 1 <u>3</u>	3	*	QUOIN END DOUBLE FACED WITH 4" RETURN			

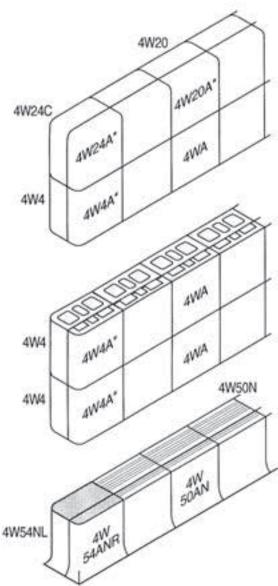




#### **4W24C**

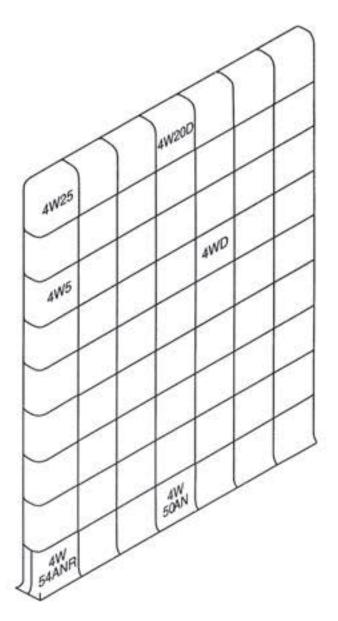


GROUP 7				Bullnose end wall cap/quoin 4" reveal, 4" return				
4	w	24	c	4		8" LENGTH (nominal dimension)		
4	W	24	C	W	*	8" HEIGHT (nominal dimension)		
4	W	<u>24</u>	C	24	-	UPPER EDGE HORIZONTAL BULLNOSE		
4	W	24	C	4		VERTICAL BULLNOSE		
4	w	24	c	C		4" BED, 4" RETURN, 4" REVEAL		

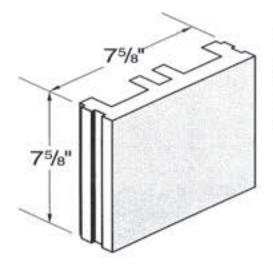


\*This shape is usually cut to specification, either at the plant or at the job site.

GROUP 7	Bulinose end wall cap/closure 4" reveal, 4" return	1" R. 3%
4 W 25	4 = 8" LENGTH (nominal dimension)	1" R.
4 <u>W</u> 25	W = 8" HEIGHT (nominal dimension)	75/8"
4 W <u>25</u>	25 - UPPER EDGE HORIZONTAL BULLNOSE	
4 W 2 <u>5</u>	5 - DOUBLE VERTICAL BULLNOSE END	1" R. 75%





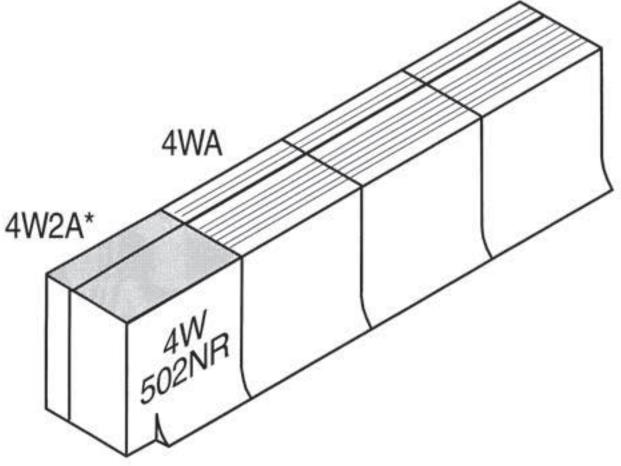


#### STRETCHER GROUP Soap stretcher, 2" bed

4 W A 4 = 8" LENGTH (nominal dimension)

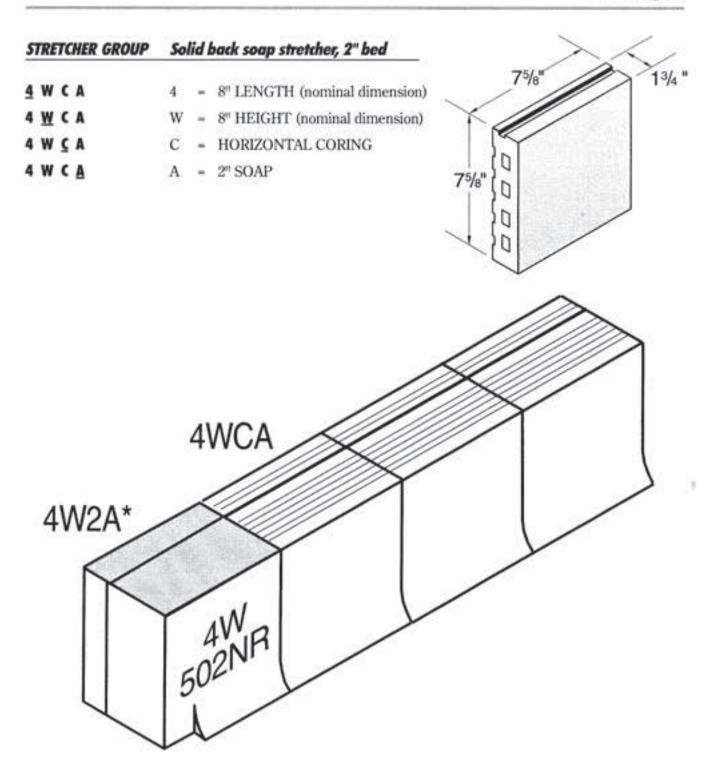
4 W A W = 8° HEIGHT (nominal dimension)

4 W A A = 2" SOAP



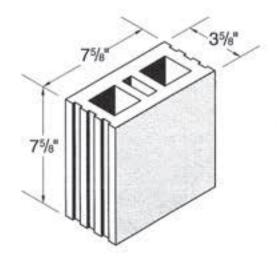
<sup>\*</sup>This shape is usually cut to specification, either at the plant or at the job site.



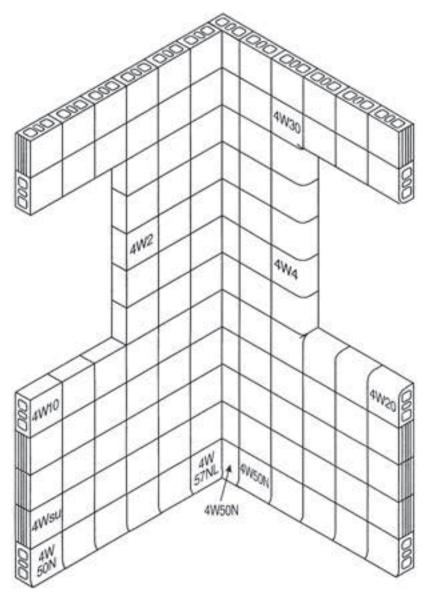


\*This shape is usually cut to specification, either at the plant or at the job site.

# 4Wsu/sm

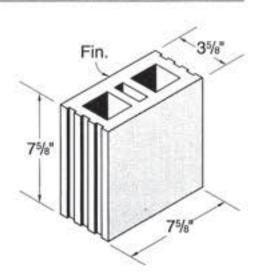


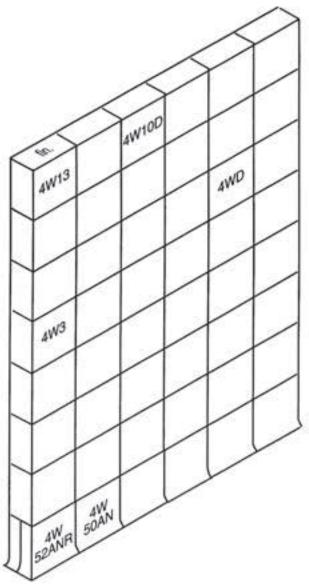
3	IKE	TCHER GROUP	1-1	1-tace stretcher, 4" bed					
4	w	SU	4		8" LENGTH (nominal dimension)				
4	W	su	W		8" HEIGHT (nominal dimension)				
4	W	<u>su</u>	su	*	UNSELECTED UNGLAZED BACK				
4	w	sm	4	-	8" LENGTH (nominal dimension)				
4	W	sm	W	*	8" HEIGHT (nominal dimension)				
4	W	sm	sm	*	UNSELECTED GLAZED BACK				



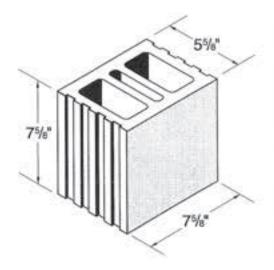


3	TRE	TCHER GROUP	2-face stretcher, 4" bed				
4	W	D	4	-	8" LENGTH (nominal dimension)		
4	W	D	W	$\sim$	8" HEIGHT (nominal dimension)		
4	w	D	D		DOUBLE FACED		

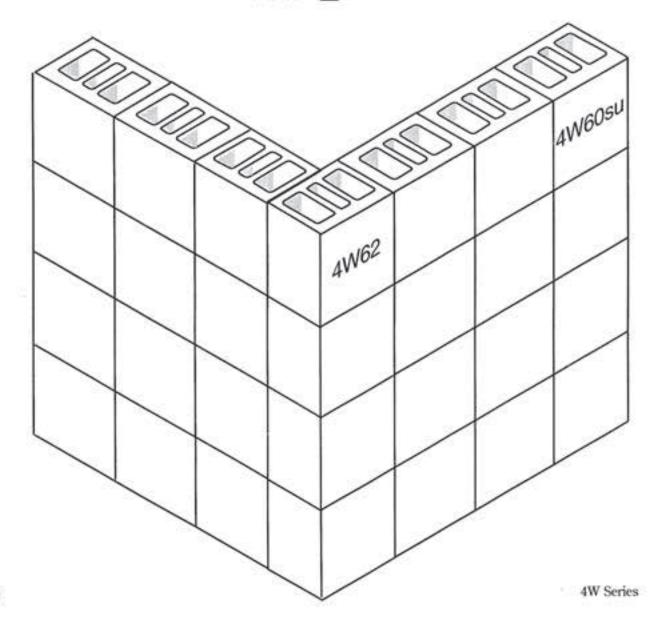




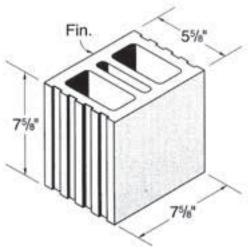
# 4W60su/sm

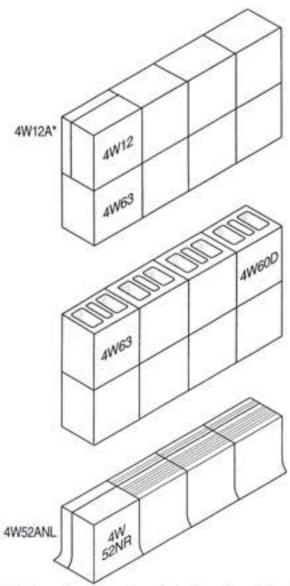


5	STRETCHER GROUP			1-6	1-face stretcher, 6" bed			
4	w	60	SU	4		8" LENGTH (nominal dimension)		
4	W	60	su	W	*	8" HEIGHT (nominal dimension)		
4	W	60	SU	60	-	6" THRU THE WALL		
4	W	60	<u>su</u>	su		UNSELECTED UNGLAZED BACK		
4	w	60	sm	4	-	8" LENGTH (nominal dimension)		
4	W	60	sm	W	-	8" HEIGHT (nominal dimension)		
4	W	60	sm	60	-	6" THRU THE WALL		
4	W	60	sm	sm	=	UNSELECTED GLAZED BACK		



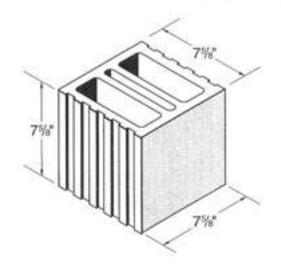
5	STRETCHER GROUP			2-1	2-face stretcher, 6" bed			
4	w	60	D	4	*	8" LENGTH (nominal dimension)		
4	W	60	D	W	-	8" HEIGHT (nominal dimension)		
4	W	60	D	60	-	6" THRU THE WALL		
4	W	60	D	D		DOUBLE FACED		





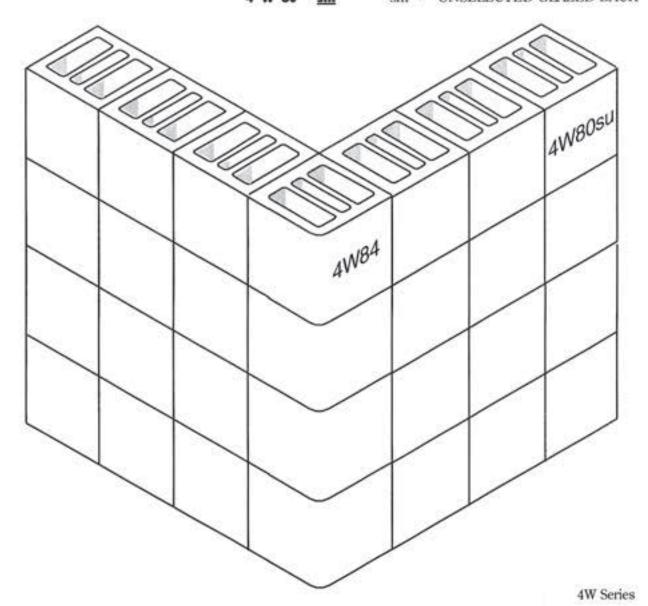
\*This shape is usually cut to specification, either at the plant or at the job site.

# 4W80su/sm



TRETCHER	GROUP	1-face	stretcher,	8" bed

4	W	80	su	4	-	8" LENGTH (nominal dimension)
4	W	80	SU	W		8" HEIGHT (nominal dimension)
4	W	80	SU	80	-	8" THRU THE WALL
4	W	80	<u>su</u>	su	<b>(46</b>	UNSELECTED UNGLAZED BACK
4	w	80	sm	4		8" LENGTH (nominal dimension)
4	W	80	sm	W	-	8" HEIGHT (nominal dimension)
4	W	80	sm	80	de	8" THRU THE WALL
4	W	80	sm	sm	*	UNSELECTED GLAZED BACK



#### **Comments on 4W Series Structural Glazed Units**

Elgin Butler Company 4W Series units are generally manufactured and graded to meet **ASTM C-126** for properties of finish and **ASTM C-652** for physical characteristics (color and durability).

Two specifications are necessary because ASTM C-126 does not address either durability or coring that accommodates vertical reinforcing and ASTM C-652 does not address glazed finishes.

We recommend that when 4W Series units are used on building exteriors that they be laid vertically in walls properly designed for exterior masonry. From a durability standpoint, it is important that the flashing is designed and installed properly and that vented cavity walls are incorporated.

4W Series units are somewhat unique in that the face is a nominal 8" x 8" square. This allows the architect to design simple walls that involve an absolute minimum number of different shapes. Walls of 4", 6", and 8" bed depth can be constructed from stretchers and quoins with the quoins serving as cap, lintel, or sill units.

The "Modular Ceramic System" (MCS) is one element of Elgin Butler Company's 4W Series. MCS incorporates the use of stretchers and quoins only. User-friendly mottled glazes allow the units to be installed without special masonry skills at high production levels. We recommend that the mortar color be as close to that of the glaze as practical.

MCS units are classed to Elgin Butler "Standard Run" tolerances for significant cost savings to the purchaser. The mottled glazes offer a pleasing appearance without rigid perfection.

The popularity of 4W Series structural glazed units has greatly increased in recent years due to the "8 x 8 look" and the ease in which it can be used with face brick, glass block, CMU, and other materials—including 8W Series structural glazed units.

