

Legend HBR Impact Series

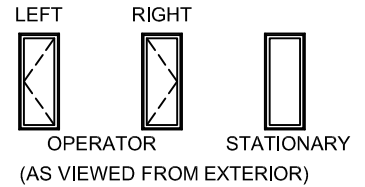
HBR CASEMENT - 16" WIDE

ELEVATIONS : OPERATING / PICTURE / STATIONARY

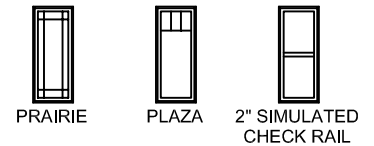
SCALE: 1/8" = 1'-0"

Masonry Opg. Rough Opg. Frame Glass	1-11 9/16			3-7 9/16			5-3 9/16		
	1-8 3/4			3-4 3/4			5-0 3/4		
	1-8			3-4			5-0		
	16			16			16		
2-2 15/16	2-1 1/4	2-0	20						
2-8 15/16	2-7 1/4	2-6	26						
3-2 15/16	3-1 1/4	3-0	32						
3-8 15/16	3-7 1/4	3-6	38						
4-2 15/16	4-1 1/4	4-0	44						
4-8 15/16	4-7 1/4	4-6	50						
5-2 15/16	5-1 1/4	5-0	56						
5-8 15/16	5-7 1/4	5-6	62						
6-2 15/16	6-1 1/4	6-0	68						

OPERATION



OTHER GRILLE PATTERNS



UNIT SIZE INFORMATION

180 BRICKMOULD

- ADD 2 13/16" TO FRAME WIDTH
- ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ADD 5 13/16" TO FRAME WIDTH
- ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ADD 7 13/16" TO FRAME WIDTH
- ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ADD 9 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ADD 5 3/8" TO FRAME WIDTH
- ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ADD 5 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT
TO CALCULATE MASONRY OPENING

NOTES:

MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD

Legend HBR Impact Series

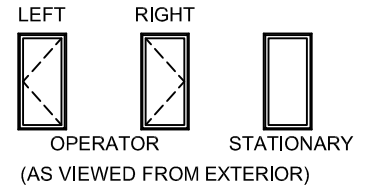
HBR CASEMENT - 20" WIDE

ELEVATIONS : OPERATING / PICTURE / STATIONARY

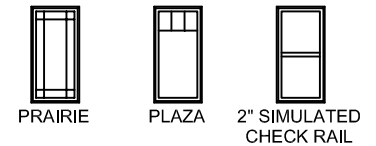
SCALE: 1/8" = 1'-0"

Masonry Opg. Rough Opg. Frame Glass	2-3 9/16			4-3 9/16			6-3 9/16		
	2-0 3/4			4-0 3/4			6-0 3/4		
	2-0			4-0			6-0		
	20			20			20		
2-2 15/16	2-1 1/4	2-0	20			2020		2020-3	
2-8 15/16	2-7 1/4	2-6	26			2026-2		2026-3	
3-2 15/16	3-1 1/4	3-0	32			2032-2		2032-3	
3-8 15/16	3-7 1/4	3-6	38			2038-2		2038-3	
4-2 15/16	4-1 1/4	4-0	44			2044-2		2044-3	
4-8 15/16	4-7 1/4	4-6	50			2050-2		2050-3	
5-2 15/16	5-1 1/4	5-0	56			2056-2		2056-3	
5-8 15/16	5-7 1/4	5-6	62			2062-2		2062-3	
6-2 15/16	6-1 1/4	6-0	68			2068-2		2068-3	

OPERATION



OTHER GRILLE PATTERNS



UNIT SIZE INFORMATION

180 BRICKMOULD

- ▣ ADD 2 13/16" TO FRAME WIDTH
- ▣ ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ▣ ADD 5 13/16" TO FRAME WIDTH
- ▣ ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ▣ ADD 7 13/16" TO FRAME WIDTH
- ▣ ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ▣ ADD 9 13/16" TO FRAME WIDTH
- ▣ ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ▣ ADD 5 3/8" TO FRAME WIDTH
- ▣ ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ▣ ADD 5 13/16" TO FRAME WIDTH
- ▣ ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT
TO CALCULATE MASONRY OPENING

NOTES:

MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD

Legend HBR Impact Series

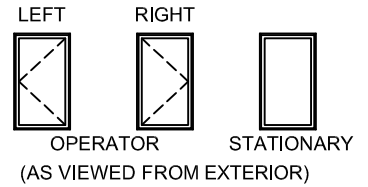
HBR CASEMENT - 24" WIDE

ELEVATIONS : OPERATING / PICTURE / STATIONARY

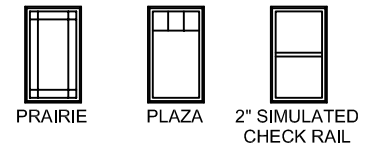
SCALE: 1/8" = 1'-0"

	Masonry Opng.			Rough Opng.			Frame			Glass		
	2-7 9/16			4-11 9/16			7-3 9/16					
	2-4 3/4			4-8 3/4			7-0 3/4					
	2-4			4-8			7-0					
	24			24			24					
2-2 15/16												
2-1 1/4	2420			2420-2			2420-3					
2-8 15/16												
2-7 1/4	2426			2426-2			2426-3					
3-2 15/16												
3-1 1/4	2432			2432-2			2432-3					
3-8 15/16												
3-7 1/4	2438			2438-2			2438-3					
4-2 15/16												
4-1 1/4	2444*			2444-2			2444-3					
4-8 15/16												
4-7 1/4	2450*			2450-2			2450-3					
5-2 15/16												
5-1 1/4	2456*			2456-2			2456-3					
5-8 15/16												
5-7 1/4	2462*			2462-2			2462-3					
6-2 15/16												
6-1 1/4	2468*			2468-2			2468-3					

OPERATION



OTHER GRILLE PATTERNS



UNIT SIZE INFORMATION

180 BRICKMOULD

- ADD 2 13/16" TO FRAME WIDTH
- ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ADD 5 13/16" TO FRAME WIDTH
- ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ADD 7 13/16" TO FRAME WIDTH
- ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ADD 9 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ADD 5 3/8" TO FRAME WIDTH
- ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ADD 5 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT TO CALCULATE MASONRY OPENING

NOTES:

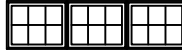
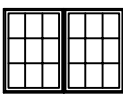
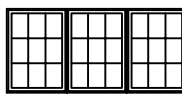
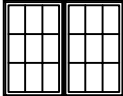
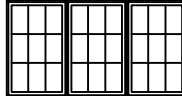
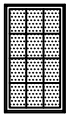
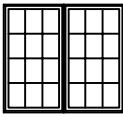
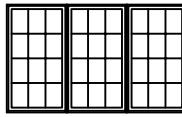
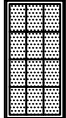
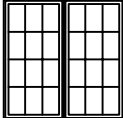
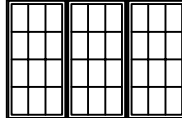
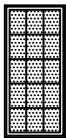
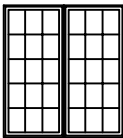
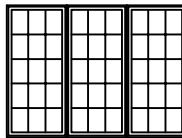
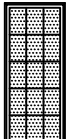
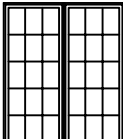
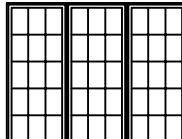
- * REQUIRES EGRESS HARDWARE TO MEET EGRESS REQUIREMENTS.
- MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD.
- SHADED SIZES MEET MOST EGRESS REQUIREMENTS. VERIFY LOCAL CODES.

Legend HBR Impact Series

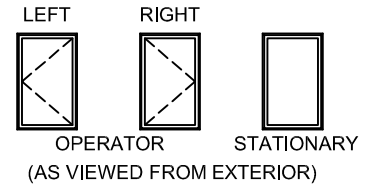
HBR CASEMENT - 26" WIDE

ELEVATIONS : OPERATING / PICTURE / STATIONARY

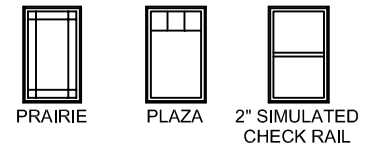
SCALE: 1/8" = 1'-0"

	Masonry Opq.	Rough Opq.	Frame	Glass	2-9 9/16	5-3 9/16	7-9 9/16
					2-6 3/4	5-0 3/4	7-6 3/4
					2-6	5-0	7-6
					26	26	26
2-2 15/16	2-1 1/4	2-0	20				
				2620	2620-2	2620-3	
2-8 15/16	2-7 1/4	2-6	26				
				2626	2626-2	2626-3	
3-2 15/16	3-1 1/4	3-0	32				
				2632	2632-2	2632-3	
3-8 15/16	3-7 1/4	3-6	38				
				2638*	2638-2	2638-3	
4-2 15/16	4-1 1/4	4-0	44				
				2644	2644-2	2644-3	
4-8 15/16	4-7 1/4	4-6	50				
				2650	2650-2	2650-3	
5-2 15/16	5-1 1/4	5-0	56				
				2656	2656-2	2656-3	
5-8 15/16	5-7 1/4	5-6	62				
				2662	2662-2	2662-3	
6-2 15/16	6-1 1/4	6-0	68				
				2668	2668-2	2668-3	

OPERATION



OTHER GRILLE PATTERNS



UNIT SIZE INFORMATION

180 BRICKMOULD

- ADD 2 13/16" TO FRAME WIDTH
- ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ADD 5 13/16" TO FRAME WIDTH
- ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ADD 7 13/16" TO FRAME WIDTH
- ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ADD 9 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ADD 5 3/8" TO FRAME WIDTH
- ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ADD 5 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT TO CALCULATE MASONRY OPENING

NOTES:

- * REQUIRES EGRESS HARDWARE TO MEET EGRESS REQUIREMENTS.
- MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD.
- SHADED SIZES MEET MOST EGRESS REQUIREMENTS. VERIFY LOCAL CODES.

Legend HBR Impact Series

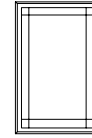
HBR CASEMENT - PICTURE

ELEVATIONS

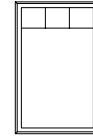
SCALE: 1/8" = 1'-0"

Masonry Oppg. Rough Oppg. Frame Glass				3-3 9/16	3-9 9/16	4-3 9/16
				3-0 3/4	3-6 3/4	4-0 3/4
				3-0	3-6	4-0
				32	38	44
3-2 15/16	3-1 1/4	3-0	32			
				3232	3832	4432
3-8 15/16	3-7 1/4	3-6	38			
				3238	3838	4438
4-2 15/16	4-1 1/4	4-0	44			
				3244	3844	4444
4-8 15/16	4-7 1/4	4-6	50			
				3250	3850	4450
5-2 15/16	5-1 1/4	5-0	56			
				3256	3856	4456
5-8 15/16	5-7 1/4	5-6	62			
				3262	3862	4462
6-2 15/16	6-1 1/4	6-0	68			
				3268	3868	4468

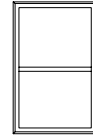
OTHER GRILLE PATTERNS



PRAIRIE



PLAZA



2" SIMULATED
CHECK RAIL

UNIT SIZE INFORMATION

180 BRICKMOULD

- ADD 2 13/16" TO FRAME WIDTH
- ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ADD 5 13/16" TO FRAME WIDTH
- ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ADD 7 13/16" TO FRAME WIDTH
- ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ADD 9 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ADD 5 3/8" TO FRAME WIDTH
- ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ADD 5 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT
TO CALCULATE MASONRY OPENING

NOTES:

ALL PICTURE UNITS REQUIRE 1" IG
MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD

Legend HBR Impact Series

HBR CASEMENT - TRANSOM

ELEVATIONS

SCALE: 1/8" = 1'-0"

Masonry Opg. Rough Opg. Frame Glass	1-9 9/16 1-6 3/4 1-6 14	1-11 9/16 1-8 3/4 1-8 16	2-3 9/16 2-0 3/4 2-0 20	2-7 9/16 2-4 3/4 2-4 24	2-9 9/16 2-6 3/4 2-6 26	3-3 9/16 3-0 3/4 3-0 32
1-2 15/16 1-1 1/4 1-0 8	 1408	 1608	 2008	 2408	 2608	 3208
1-4 15/16 1-3 1/4 1-2 10	 1410	 1610	 2010	 2410	 2610	 3210
1-6 15/16 1-5 1/4 1-4 12	 1412	 1612	 2012	 2412	 2612	 3212
1-8 15/16 1-7 1/4 1-6 14	 1414	 1614	 2014	 2414	 2614	 3214
1-10 15/16 1-9 1/4 1-8 16	 1416	 1616	 2016	 2416	 2616	 3216
2-2 15/16 2-1 1/4 2-0 20			 2020	 2420	 2620	 3220
2-6 15/16 2-5 1/4 2-4 24				 2424	 2624	 3224
2-8 15/16 2-7 1/4 2-6 26					 2626	 3226

OTHER GRILLE PATTERN



PRAIRIE

UNIT SIZE INFORMATION

180 BRICKMOULD

- ADD 2 13/16" TO FRAME WIDTH
- ADD 2 7/16" TO FRAME HEIGHT

3 1/2" FLAT CASING

- ADD 5 13/16" TO FRAME WIDTH
- ADD 3 15/16" TO FRAME HEIGHT

4 1/2" BACKBAND

- ADD 7 13/16" TO FRAME WIDTH
- ADD 4 15/16" TO FRAME HEIGHT

5 1/2" FLAT CASING

- ADD 9 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

WILLIAMSBURG

- ADD 5 3/8" TO FRAME WIDTH
- ADD 3 11/16" TO FRAME HEIGHT

PLANTATION

- ADD 5 13/16" TO FRAME WIDTH
- ADD 5 15/16" TO FRAME HEIGHT

* ADD ADDITIONAL 1" FOR BULLNOSE SUBSILL

NOTE:

ADD 3/4" TO UNIT WIDTH & 1/2" TO UNIT HEIGHT
TO CALCULATE MASONRY OPENING

NOTES:

MASONRY OPENINGS ARE FOR STANDARD 180 BRICKMOULD