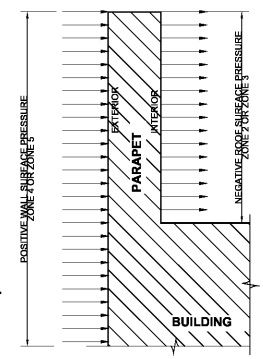


COMPONENTS AND CLADDING ROOF AND WALL PRESSURES

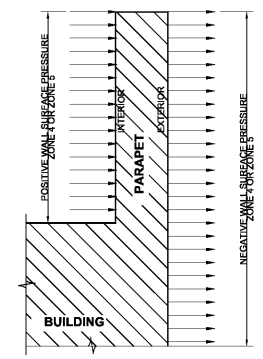
NOTES:

- ALL WIND LOADING SHOWN HEREIN ARE UNFACTORED BASED ON ASCE-7-10 BASIC WIND SPEED (3 SECOND GUST) WHICH IS EQUIVALENT TO IBC ULTIMATE DESIGN WIND SPEED.
- FOR STRENGTH DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
 $1.2D + 1.6Lr + 0.5W$
 $1.2D + 1.0W + 0.5Lr$
 $0.9D + 1.0W$
- FOR ALLOWABLE STRESS DESIGN, USE WIND PRESSURES IN THE FOLLOWING COMBINATIONS:
 $D + 0.6W$
 $D + 0.45W + 0.75Lr$
 $0.6D + 0.6W$
 $D =$ DEAD LOAD
 $Lr =$ ROOF LIVE LOAD
 $W =$ WIND LOAD
- OPTIONALLY, COMPONENTS AND CLADDING MANUFACTURERS MAY CALCULATE WIND PRESSURES AND GEOMETRY FOR ALL ZONES USING APPLICABLE PROCEDURES IN ASCE-7-10. ALL DESIGNS SHALL BE COMPLETED USING THE LOAD COMBINATIONS IN CHAPTER 2 OF ASCE 7-10 AND CHAPTER 16 OF IBC.

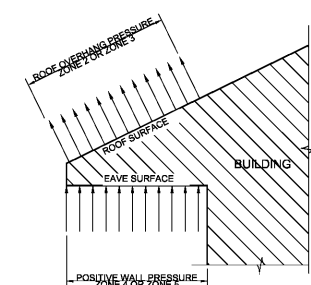
LOW SLOPED ROOFS



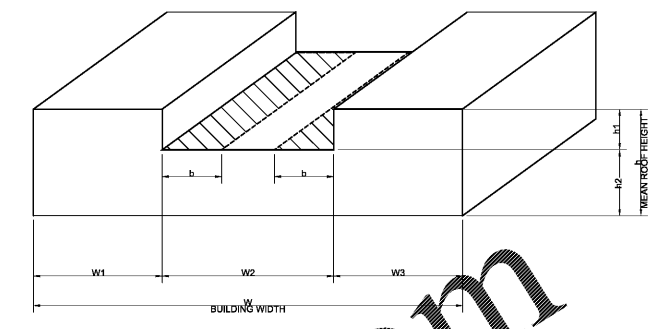
COMPONENTS AND CLADDING PARAPET DIAGRAM



COMPONENTS AND CLADDING OVERHANG PRESSURE DIAGRAM



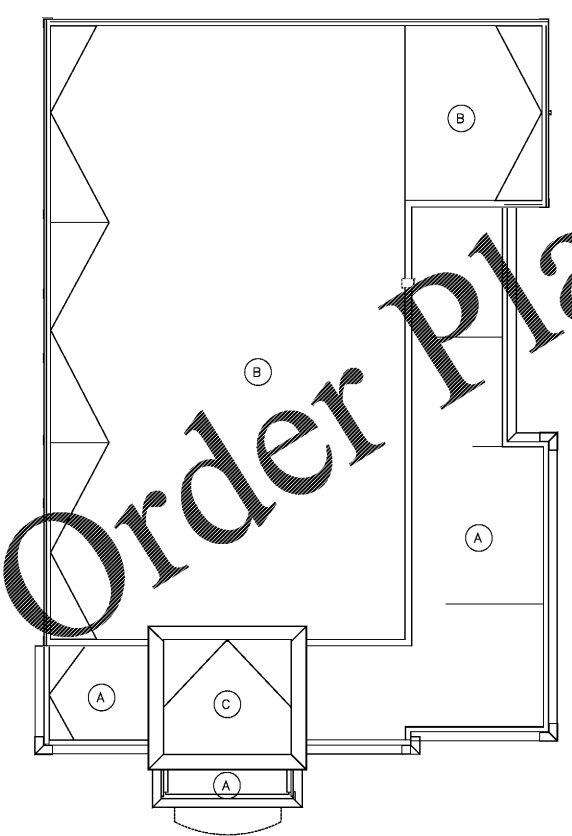
COMPONENTS AND CLADDING SLOPED ROOF PRESSURE DIAGRAM



NOTES:

- FLAT ROOF WITH PARAPETS SHOWN. DIAGRAM IS SIMILAR AT ALL ROOF TYPES AND CONFIGURATIONS.
- AT LOWER ROOF LEVELS, THE ZONE DESIGNATIONS AND PRESSURES FROM THIS APPLICABLE FIGURE AND TABLE SHALL APPLY, EXCEPT THAT AT THE HATCHED AREAS, ZONE 2 SHALL BE TREATED AS ZONE 2 AND ZONE 3 SHALL BE TREATED AS ZONE 1. POSITIVE ROOF PRESSURES IN THE HATCHED AREAS SHALL BE EQUAL TO POSITIVE WALL PRESSURES SCHEDULE FOR ZONE 2 AND ZONE 5.

AREAS "A" (A=6'-0")				AREAS "B" (A=6'-6")				AREAS "C" (A=3'-0")			
WALL AND EAVE SURFACE PRESSURES				WALL AND EAVE SURFACE PRESSURES				WALL AND EAVE SURFACE PRESSURES			
ZONE	TRIBUTARY AREA (SQFT)	PRESSURE (PSF)		ZONE	TRIBUTARY AREA (SQFT)	PRESSURE (PSF)		ZONE	TRIBUTARY AREA (SQFT)	PRESSURE (PSF)	
		POSITIVE	NEGATIVE			POSITIVE	NEGATIVE			POSITIVE	NEGATIVE
WALL & EAVE SURFACE 4	10	45.9	-49.8	WALL & EAVE SURFACE 4	10	46.4	-50.3	WALL & EAVE SURFACE 4	10	47.6	-51.6
	20	43.2	-47.8		20	43.6	-48.3		20	44.7	-49.6
	50	40.8	-45.1		50	41.3	-45.6		50	42.3	-46.7
	100	39.3	-43.2		100	39.7	-43.6		100	40.7	-44.7
WALL & EAVE SURFACE EDGE 5	10	45.9	-51.5	WALL & EAVE SURFACE EDGE 5	10	46.4	-52.1	WALL & EAVE SURFACE EDGE 5	10	47.6	-53.7
	20	43.2	-50.8		20	43.6	-51.4		20	44.7	-50.8
	50	40.8	-47.7		50	41.3	-48.3		50	42.3	-49.6
	100	39.3	-46.6		100	39.7	-46.1		100	40.7	-50.4
ROOF SURFACE INTERIOR 1	10	18.7	-48.9	ROOF SURFACE INTERIOR 1	10	18.9	-48.4	ROOF SURFACE INTERIOR 1	10	19.3	-47.8
	20	17.7	-44.9		20	17.9	-45.4		20	18.3	-46.5
	50	16.0	-43.0		50	16.0	-43.4		50	16.3	-44.5
	100	16.0	-42.0		100	16.0	-42.4		100	16.0	-43.5
ROOF SURFACE EDGE 2	10	18.7	-77.0	ROOF SURFACE EDGE 2	10	18.9	-77.8	ROOF SURFACE EDGE 2	10	19.3	-78.8
	20	17.7	-70.2		20	17.9	-70.9		20	18.3	-72.7
	50	16.0	-56.6		50	16.0	-57.2		50	16.3	-58.6
	100	16.0	-49.8		100	16.0	-50.3		100	16.0	-51.6
ROOF SURFACE CORNER 3	10	18.7	-115.9	ROOF SURFACE CORNER 3	10	18.9	-117.1	ROOF SURFACE CORNER 3	10	19.3	-120.1
	20	17.7	-98.4		20	17.9	-100.4		20	18.3	-103.0
	50	16.0	-66.3		50	16.0	-67.0		50	16.3	-68.7
	100	16.0	-49.8		100	16.0	-50.3		100	16.0	-51.6



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JOB NO.	201801
DATE	SEPT. 4, 2018 100% SCHEMATIC DESIGN
DATE	OCT. 26, 2018 100% DESIGN DEVELOPMENT
DATE	APRIL 5, 2019 80% CONST. DOCUMENTS
DATE	MAY 17, 2019 100% CONST. DOCUMENTS

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