

Table 30.7-2
Components and Cladding – Part 4
Exposure C

C & C
V = 130-150 mph
h = 90-160 ft.

V (MPH)		Load Case	130					140					150				
h (ft)	Roof Form		1	2	Zone 3	4	5	1	2	Zone 3	4	5	1	2	Zone 3	4	5
160	Flat Roof	1	-81.2	-127.4	-173.7	-55.5	-101.7	-94.2	-147.8	-201.4	-64.4	-118.0	-108.1	-169.7	-231.2	-73.9	-135.5
		2	NA	NA	NA	55.5	55.5	NA	NA	NA	64.4	64.4	NA	NA	NA	73.9	73.9
	Gable Roof	1	-60.6	-101.7	-153.1	-65.8	-101.7	-70.3	-118.0	-177.6	-76.3	-118.0	-80.7	-135.5	-203.9	-87.6	-135.5
		2	34.9	34.9	34.9	60.6	55.5	40.5	40.5	40.5	70.3	64.4	46.5	46.5	46.5	80.7	73.9
	Mansard Roof	1	-55.5	-96.6	-142.8	-65.8	-101.7	-64.4	-112.0	-165.7	-76.3	-118.0	-73.9	-128.6	-190.2	-87.6	-135.5
		2	34.9	34.9	34.9	60.6	55.5	40.5	40.5	40.5	70.3	64.4	46.5	46.5	46.5	80.7	73.9
	Hip Roof	1	-70.9	-91.5	-158.3	-65.8	-101.7	-82.2	-106.1	-183.5	-76.3	-118.0	-94.4	-121.8	-210.7	-87.6	-135.5
		2	29.8	29.8	29.8	60.6	60.6	34.6	34.6	34.6	70.3	70.3	39.7	39.7	39.7	80.7	80.7
150	Flat Roof	1	-80.1	-125.7	-171.3	-54.7	-100.4	-92.9	-145.8	-198.7	-63.5	-116.4	-106.6	-167.4	-228.1	-72.9	-133.6
		2	NA	NA	NA	54.7	54.7	NA	NA	NA	63.5	63.5	NA	NA	NA	72.9	72.9
	Gable Roof	1	-59.8	-100.4	-151.1	-64.9	-100.4	-69.4	-116.4	-175.2	-75.2	-116.4	-79.6	-133.6	-201.1	-86.4	-133.6
		2	34.5	34.5	34.5	59.8	54.7	40.0	40.0	40.0	69.4	63.5	45.9	45.9	45.9	79.6	72.9
	Mansard Roof	1	-54.7	-95.3	-140.9	-64.9	-100.4	-63.5	-110.5	-163.4	-75.2	-116.4	-72.9	-126.9	-187.6	-86.4	-133.6
		2	34.5	34.5	34.5	59.8	54.7	40.0	40.0	40.0	69.4	63.5	45.9	45.9	45.9	79.6	72.9
	Hip Roof	1	-70.0	-90.2	-156.1	-64.9	-100.4	-81.1	-104.6	-181.1	-75.2	-116.4	-93.1	-120.1	-207.9	-86.4	-133.6
		2	29.4	29.4	29.4	59.8	59.8	34.1	34.1	34.1	69.4	69.4	39.1	39.1	39.1	79.6	79.6
140	Flat Roof	1	-78.9	-123.9	-168.9	-54.0	-98.9	-91.5	-143.7	-195.8	-62.6	-114.7	-105.1	-165.0	-224.8	-71.8	-131.7
		2	NA	NA	NA	54.0	54.0	NA	NA	NA	62.6	62.6	NA	NA	NA	71.8	71.8
	Gable Roof	1	-59.0	-98.9	-148.9	-63.9	-98.9	-68.4	-114.7	-172.7	-74.2	-114.7	-78.5	-131.7	-198.2	-85.1	-131.7
		2	34.0	34.0	34.0	59.0	54.0	39.4	39.4	39.4	68.4	62.6	45.2	45.2	45.2	78.5	71.8
	Mansard Roof	1	-54.0	-93.9	-138.9	-63.9	-98.9	-62.6	-108.9	-161.1	-74.2	-114.7	-71.8	-125.0	-184.9	-85.1	-131.7
		2	34.0	34.0	34.0	59.0	54.0	39.4	39.4	39.4	68.4	62.6	45.2	45.2	45.2	78.5	71.8
	Hip Roof	1	-68.9	-88.9	-153.9	-63.9	-98.9	-80.0	-103.1	-178.5	-74.2	-114.7	-91.8	-118.4	-204.9	-85.1	-131.7
		2	29.0	29.0	29.0	59.0	59.0	33.6	33.6	33.6	68.4	68.4	38.6	38.6	38.6	78.5	78.5
130	Flat Roof	1	-77.7	-122.0	-166.2	-53.1	-97.4	-90.1	-141.5	-192.8	-61.6	-112.9	-103.5	-162.4	-221.3	-70.7	-129.7
		2	NA	NA	NA	53.1	53.1	NA	NA	NA	61.6	61.6	NA	NA	NA	70.7	70.7
	Gable Roof	1	-58.0	-97.4	-146.6	-63.0	-97.4	-67.3	-112.9	-170.0	-73.0	-112.9	-77.3	-129.7	-195.1	-83.8	-129.7
		2	33.4	33.4	33.4	58.0	53.1	38.8	38.8	38.8	67.3	61.6	44.5	44.5	44.5	77.3	70.7
	Mansard Roof	1	-53.1	-92.5	-136.7	-63.0	-97.4	-61.6	-107.2	-158.6	-73.0	-112.9	-70.7	-123.1	-182.0	-83.8	-129.7
		2	33.4	33.4	33.4	58.0	53.1	38.8	38.8	38.8	67.3	61.6	44.5	44.5	44.5	77.3	70.7
	Hip Roof	1	-67.9	-87.6	-151.5	-63.0	-97.4	-78.7	-101.5	-175.7	-73.0	-112.9	-90.4	-116.6	-201.7	-83.8	-129.7
		2	28.5	28.5	28.5	58.0	58.0	33.1	33.1	33.1	67.3	67.3	38.0	38.0	38.0	77.3	77.3
120	Flat Roof	1	-76.4	-119.9	-163.5	-52.2	-95.8	-88.6	-139.1	-189.6	-60.6	-111.1	-101.7	-159.7	-217.6	-69.5	-127.5
		2	NA	NA	NA	52.2	52.2	NA	NA	NA	60.6	60.6	NA	NA	NA	69.5	69.5
	Gable Roof	1	-57.1	-95.8	-144.1	-61.9	-95.8	-66.2	-111.1	-167.1	-71.8	-111.1	-76.0	-127.5	-191.9	-82.4	-127.5
		2	32.9	32.9	32.9	57.1	52.2	38.1	38.1	38.1	66.2	60.6	43.8	43.8	43.8	76.0	69.5
	Mansard Roof	1	-52.2	-90.9	-134.5	-61.9	-95.8	-60.6	-105.4	-155.9	-71.8	-111.1	-69.5	-121.1	-179.0	-82.4	-127.5
		2	32.9	32.9	32.9	57.1	52.2	38.1	38.1	38.1	66.2	60.6	43.8	43.8	43.8	76.0	69.5
	Hip Roof	1	-66.7	-86.1	-149.0	-61.9	-95.8	-77.4	-99.8	-172.8	-71.8	-111.1	-88.9	-114.6	-198.3	-82.4	-127.5
		2	28.1	28.1	28.1	57.1	57.1	32.5	32.5	32.5	66.2	66.2	37.3	37.3	37.3	76.0	76.0
110	Flat Roof	1	-75.0	-117.8	-160.5	-51.3	-94.0	-87.0	-136.6	-186.1	-59.5	-109.0	-99.9	-156.8	-213.7	-68.3	-125.2
		2	NA	NA	NA	51.3	51.3	NA	NA	NA	59.5	59.5	NA	NA	NA	68.3	68.3
	Gable Roof	1	-56.0	-94.0	-141.5	-60.8	-94.0	-65.0	-109.0	-164.1	-70.5	-109.0	-74.6	-125.2	-188.4	-80.9	-125.2
		2	32.3	32.3	32.3	56.0	51.3	37.4	37.4	37.4	65.0	59.5	43.0	43.0	43.0	74.6	68.3
	Mansard Roof	1	-51.3	-89.3	-132.0	-60.8	-94.0	-59.5	-103.5	-153.1	-70.5	-109.0	-68.3	-118.9	-175.8	-80.9	-125.2
		2	32.3	32.3	32.3	56.0	51.3	37.4	37.4	37.4	65.0	59.5	43.0	43.0	43.0	74.6	68.3
	Hip Roof	1	-65.5	-84.5	-146.3	-60.8	-94.0	-76.0	-98.0	-169.6	-70.5	-109.0	-87.2	-112.5	-194.7	-80.9	-125.2
		2	27.5	27.5	27.5	56.0	56.0	31.9	31.9	31.9	65.0	65.0	36.7	36.7	36.7	74.6	74.6
100	Flat Roof	1	-73.5	-115.4	-157.3	-50.3	-92.2	-85.3	-133.9	-182.4	-58.3	-106.9	-97.9	-153.7	-209.4	-66.9	-122.7
		2	NA	NA	NA	50.3	50.3	NA	NA	NA	58.3	58.3	NA	NA	NA	66.9	66.9
	Gable Roof	1	-54.9	-92.2	-138.7	-59.6	-92.2	-63.7	-106.9	-160.9	-69.1	-106.9	-73.1	-122.7	-184.7	-79.3	-122.7
		2	31.6	31.6	31.6	54.9	50.3	36.7	36.7	36.7	63.7	58.3	42.1	42.1	42.1	73.1	66.9
	Mansard Roof	1	-50.3	-87.5	-129.4	-59.6	-92.2	-58.3	-101.5	-150.1	-69.1	-106.9	-66.9	-116.5	-172.3	-79.3	-122.7
		2	31.6	31.6	31.6	54.9	50.3	36.7	36.7	36.7	63.7	58.3	42.1	42.1	42.1	73.1	66.9
	Hip Roof	1	-64.2	-82.8	-143.4	-59.6	-92.2	-74.5	-96.1	-166.3	-69.1	-106.9	-85.5	-110.3	-190.9	-79.3	-122.7
		2	27.0	27.0	27.0	54.9	54.9	31.3	31.3	31.3	63.7	63.7	35.9	35.9	35.9	73.1	73.1
90	Flat Roof	1	-71.9	-112.9	-153.9	-49.2	-90.1	-83.4	-130.9	-178.4	-57.0	-104.5	-95.8	-150.3	-204.8	-65.5	-120.0
		2	NA	NA	NA	49.2	49.2	NA	NA	NA	57.0	57.0	NA	NA	NA	65.5	65.5
	Gable Roof	1	-53.7	-90.1	-135.7	-58.3	-90.1	-62.3	-104.5	-157.3	-67.6	-104.5	-71.5	-120.0	-180.6	-77.6	-120.0
		2	31.0	31.0	31.0	53.7	49.2	35.9	35.9	35.9	62.3	57.0	41.2	41.2	41.2	71.5	65.5
	Mansard Roof	1	-49.2	-85.6	-126.5	-58.3	-90.1	-57.0	-99.3	-146.8	-67.6	-104.5	-65.5	-113.9	-168.5	-77.6	-120.0
		2	31.0	31.0	31.0	53.7	49.2	35.9	35.9	35.9	62.3	57.0	41.2	41.2	41.2	71.5	65.5
	Hip Roof	1	-62.8	-81.0	-140.2	-58.3	-90.1	-72.9	-94.0	-162.6	-67.6	-104.5	-83.6	-107.9	-186.7	-77.6	-120.0
		2	26.4	26.4	26.4	53.7	53.7	30.6	30.6	30.6	62.3	62.3	35.2	35.2	35.2	71.5	71.5