

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

C & C
V = 160-200 mph
h = 15-80 ft.

V (MPH)		Load Case	160					180					200				
h (ft)	Roof Form		Zone					Zone					Zone				
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
80	Flat Roof	1	-106.3	-166.8	-227.4	-72.6	-133.2	-134.5	-211.1	-287.8	-91.9	-168.6	-166.1	-260.7	-355.3	-113.5	-208.1
		2	NA	NA	NA	72.6	72.6	NA	NA	NA	91.9	91.9	NA	NA	NA	113.5	113.5
	Gable Roof	1	-79.4	-133.2	-200.5	-86.1	-133.2	-100.5	-168.6	-253.7	-109.0	-168.6	-124.0	-208.1	-313.2	-134.5	-208.1
		2	45.7	45.7	45.7	79.4	72.6	57.9	57.9	57.9	100.5	91.9	71.5	71.5	71.5	124.0	113.5
	Mansard Roof	1	-72.6	-126.5	-187.0	-86.1	-133.2	-91.9	-160.1	-236.7	-109.0	-168.6	-113.5	-197.6	-292.2	-134.5	-208.1
		2	45.7	45.7	45.7	79.4	72.6	57.9	57.9	57.9	100.5	91.9	71.5	71.5	71.5	124.0	113.5
	Hip Roof	1	-92.8	-119.7	-207.2	-86.1	-133.2	-117.5	-151.5	-262.2	-109.0	-168.6	-145.0	-187.1	-323.7	-134.5	-208.1
		2	39.0	39.0	39.0	79.4	79.4	49.4	49.4	49.4	100.5	100.5	61.0	61.0	61.0	124.0	113.5
	Monoslope Roof	1	-103.3	-162.2	-221.1	-70.6	-129.5	-130.8	-205.3	-279.8	-89.4	-163.9	-161.5	-253.4	-345.4	-110.4	-202.3
		2	NA	NA	NA	70.6	70.6	NA	NA	NA	89.4	89.4	NA	NA	NA	110.4	110.4
70	Flat Roof	1	-77.2	-129.5	-194.9	-83.7	-129.5	-97.7	-163.9	-246.7	-106.0	-163.9	-120.6	-202.3	-304.5	-130.8	-202.3
		2	44.5	44.5	44.5	77.2	70.6	56.3	56.3	56.3	97.7	89.4	69.5	69.5	69.5	120.6	110.4
	Gable Roof	1	-70.6	-123.0	-181.8	-83.7	-129.5	-89.4	-155.6	-230.1	-106.0	-163.9	-110.4	-192.1	-284.1	-130.8	-202.3
		2	44.5	44.5	44.5	77.2	70.6	56.3	56.3	56.3	97.7	89.4	69.5	69.5	69.5	120.6	110.4
	Mansard Roof	1	-90.3	-116.4	-201.4	-83.7	-129.5	-114.2	-147.3	-254.9	-106.0	-163.9	-141.0	-181.9	-314.7	-130.8	-202.3
		2	37.9	37.9	37.9	77.2	77.2	48.0	48.0	48.0	97.7	97.7	59.3	59.3	59.3	120.6	110.4
	Hip Roof	1	-100.0	-157.0	-214.0	-68.4	-125.4	-126.6	-198.7	-270.8	-86.5	-158.7	-156.3	-245.3	-334.4	-106.8	-195.9
		2	NA	NA	NA	68.4	68.4	NA	NA	NA	86.5	86.5	NA	NA	NA	106.8	106.8
	Monoslope Roof	1	-74.7	-125.4	-188.7	-81.0	-125.4	-94.6	-158.7	-238.8	-102.6	-158.7	-116.7	-195.9	-294.8	-126.6	-195.9
		2	43.1	43.1	43.1	74.7	68.4	54.5	54.5	54.5	94.6	86.5	67.3	67.3	67.3	116.7	106.8
60	Flat Roof	1	-68.4	-119.0	-176.0	-81.0	-125.4	-86.5	-150.6	-222.8	-102.6	-158.7	-106.8	-186.0	-275.0	-126.6	-195.9
		2	43.1	43.1	43.1	74.7	68.4	54.5	54.5	54.5	94.6	86.5	67.3	67.3	67.3	116.7	106.8
	Gable Roof	1	-87.4	-112.7	-195.0	-81.0	-125.4	-110.6	-142.6	-246.8	-102.6	-158.7	-136.5	-176.1	-304.7	-126.6	-195.9
		2	36.7	36.7	36.7	74.7	74.7	46.5	46.5	46.5	94.6	94.6	57.4	57.4	57.4	116.7	106.8
	Mansard Roof	1	-96.3	-151.1	-205.9	-65.8	-120.6	-121.8	-191.2	-260.6	-83.3	-152.7	-150.4	-236.1	-321.8	-102.8	-188.5
		2	NA	NA	NA	65.8	65.8	NA	NA	NA	83.3	83.3	NA	NA	NA	102.8	102.8
	Hip Roof	1	-71.9	-120.6	-181.6	-78.0	-120.6	-91.0	-152.7	-229.8	-98.7	-152.7	-112.3	-188.5	-283.7	-121.9	-188.5
		2	41.4	41.4	41.4	71.9	65.8	52.4	52.4	52.4	91.0	83.3	64.7	64.7	64.7	112.3	102.8
	Monoslope Roof	1	-65.8	-114.5	-169.4	-78.0	-120.6	-83.3	-145.0	-214.4	-98.7	-152.7	-102.8	-179.0	-264.7	-121.9	-188.5
		2	41.4	41.4	41.4	71.9	65.8	52.4	52.4	52.4	91.0	83.3	64.7	64.7	64.7	112.3	102.8
50	Flat Roof	1	-84.1	-108.5	-187.7	-78.0	-120.6	-106.4	-137.3	-237.5	-98.7	-152.7	-131.4	-169.5	-293.2	-121.9	-188.5
		2	35.3	35.3	35.3	71.9	71.9	44.7	44.7	44.7	91.0	91.0	55.2	55.2	55.2	112.3	102.8
	Gable Roof	1	-91.9	-144.2	-196.5	-62.8	-115.1	-116.2	-182.5	-248.7	-79.5	-145.7	-143.5	-225.3	-307.0	-98.1	-179.8
		2	NA	NA	NA	62.8	62.8	NA	NA	NA	79.5	79.5	NA	NA	NA	98.1	98.1
	Mansard Roof	1	-68.6	-115.1	-173.2	-74.4	-115.1	-86.8	-145.7	-219.3	-94.2	-145.7	-107.2	-179.8	-270.7	-116.3	-179.8
		2	39.5	39.5	39.5	68.6	62.8	50.0	50.0	50.0	86.8	79.5	61.8	61.8	61.8	107.2	98.1
	Hip Roof	1	-62.8	-109.3	-161.6	-74.4	-115.1	-79.5	-138.3	-204.5	-94.2	-145.7	-98.1	-170.8	-252.5	-116.3	-179.8
		2	39.5	39.5	39.5	68.6	62.8	50.0	50.0	50.0	86.8	79.5	61.8	61.8	61.8	107.2	98.1
	Monoslope Roof	1	-80.2	-103.5	-179.1	-74.4	-115.1	-101.5	-131.0	-226.6	-94.2	-145.7	-125.3	-161.7	-279.8	-116.3	-179.8
		2	33.7	33.7	33.7	68.6	68.6	42.7	42.7	42.7	86.8	86.8	52.7	52.7	52.7	107.2	98.1
40	Flat Roof	1	-86.5	-135.7	-184.9	-59.1	-108.3	-109.4	-171.7	-234.1	-74.8	-137.1	-135.1	-212.0	-289.0	-92.3	-169.3
		2	NA	NA	NA	59.1	59.1	NA	NA	NA	74.8	74.8	NA	NA	NA	92.3	92.3
	Gable Roof	1	-64.6	-108.3	-163.1	-70.0	-108.3	-81.7	-137.1	-206.4	-88.6	-137.1	-100.9	-169.3	-254.8	-109.4	-169.3
		2	37.2	37.2	37.2	64.6	59.1	47.1	47.1	47.1	81.7	74.8	58.1	58.1	58.1	100.9	92.3
	Mansard Roof	1	-59.1	-102.9	-152.1	-70.0	-108.3	-74.8	-130.2	-192.5	-88.6	-137.1	-92.3	-160.7	-237.7	-109.4	-169.3
		2	37.2	37.2	37.2	64.6	59.1	47.1	47.1	47.1	81.7	74.8	58.1	58.1	58.1	100.9	92.3
	Hip Roof	1	-75.5	-97.4	-168.5	-70.0	-108.3	-95.6	-123.3	-213.3	-88.6	-137.1	-118.0	-152.2	-263.3	-109.4	-169.3
		2	31.7	31.7	31.7	64.6	64.6	40.2	40.2	40.2	81.7	81.7	49.6	49.6	49.6	100.9	92.3
	Monoslope Roof	1	-79.4	-124.6	-169.8	-54.3	-99.5	-100.5	-157.7	-214.9	-68.7	-125.9	-124.0	-194.7	-265.3	-84.8	-155.4
		2	NA	NA	NA	54.3	54.3	NA	NA	NA	68.7	68.7	NA	NA	NA	84.8	84.8
30	Flat Roof	1	-59.3	-99.5	-149.7	-64.3	-99.5	-75.0	-125.9	-189.5	-81.4	-125.9	-92.6	-155.4	-233.9	-100.5	-155.4
		2	34.2	34.2	34.2	59.3	54.3	43.2	43.2	43.2	75.0	68.7	53.4	53.4	53.4	92.6	84.8
	Gable Roof	1	-54.3	-94.5	-139.7	-64.3	-99.5	-68.7	-119.5	-176.8	-81.4	-125.9	-84.8	-147.6	-218.2	-100.5	-155.4
		2	34.2	34.2	34.2	59.3	54.3	43.2	43.2	43.2	75.0	68.7	53.4	53.4	53.4	92.6	84.8
	Mansard Roof	1	-69.3	-89.4	-154.7	-64.3	-99.5	-87.7	-113.2	-195.8	-81.4	-125.9	-108.3	-139.7	-241.8	-100.5	-155.4
		2	29.1	29.1	29.1	59.3	59.3	36.9	36.9	36.9	75.0	75.0	45.5	45.5	45.5	92.6	84.8
	Hip Roof	1	-74.7	-117.3	-159.8	-51.1	-93.6	-66.9	-148.4	-202.3	-64.6	-118.5	-116.7	-183.2	-249.7	-79.8	-146.3
		2	NA	NA	NA	51.1	51.1	NA	NA	NA	64.6	64.6	NA	NA	NA	79.8	79.8
	Monoslope Roof	1	-55.8	-93.6	-140.9	-60.5	-93.6	-70.6	-118.5	-178.3	-76.6	-118.5	-87.2	-146.3	-220.2	-94.6	-146.3
		2	32.2	32.2	32.2	55.8	51.1	40.7	40.7	40.7	70.6	64.6	50.2	50.2	50.2	87.2	79.8
15	Flat Roof	1	-51.1	-88.9	-131.5	-60.5	-93.6	-64.6	-112.5	-166.4	-76.6	-118.5	-79.8	-138.9	-205.4	-94.6	-146.3
		2	32.2	32.2	32.2	55.8	51.1	40.7	40.7	40.7	70.6	64.6	50.2	50.2	50.2	87.2	79.8
	Gable Roof	1	-65.3	-84.2	-145.6	-60.5	-93.6	-82.6	-106.5	-184.3	-76.6	-118.5	-102.0	-131.5	-227.6	-94.6	-146.3
		2	27.4	27.4	27.4	55.8	55.8	34.7	34.7	34.7	70.6	70.6	42.9	42.9	42.9	87.2	79.8