

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

C & C
V = 160-200 mph
h = 90-160 ft.

V (MPH)		Load Case	160					180					200				
h (ft)	Roof Form		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
160	Flat Roof	1	-123.0	-193.0	-263.1	-84.1	-154.1	-155.6	-244.3	-333.0	-106.4	-195.0	-192.2	-301.6	-411.1	-131.3	-240.8
		2	NA	NA	NA	84.1	84.1	NA	NA	NA	106.4	106.4	NA	NA	NA	131.3	131.3
	Gable Roof	1	-91.8	-154.1	-231.9	-99.6	-154.1	-116.2	-195.0	-293.6	-126.1	-195.0	-143.5	-240.8	-362.4	-155.7	-240.8
		2	52.9	52.9	52.9	91.8	84.1	67.0	67.0	67.0	116.2	106.4	82.7	82.7	82.7	143.5	131.3
	Hip Roof	1	-84.1	-146.3	-216.4	-99.6	-154.1	-106.4	-185.2	-273.9	-126.1	-195.0	-131.3	-228.6	-338.1	-155.7	-240.8
		2	52.9	52.9	52.9	91.8	84.1	67.0	67.0	67.0	116.2	106.4	82.7	82.7	82.7	143.5	131.3
150	Monoslope Roof	1	-107.4	-138.5	-239.7	-99.6	-154.1	-135.9	-175.3	-303.4	-126.1	-195.0	-167.8	-216.5	-374.6	-155.7	-240.8
		2	45.1	45.1	45.1	91.8	91.8	57.1	57.1	57.1	116.2	116.2	70.5	70.5	70.5	143.5	131.3
	Flat Roof	1	-121.3	-190.4	-259.5	-82.9	-152.0	-153.5	-241.0	-328.5	-105.0	-192.4	-189.6	-297.5	-405.5	-129.6	-237.6
		2	NA	NA	NA	82.9	82.9	NA	NA	NA	105.0	105.0	NA	NA	NA	129.6	129.6
	Gable Roof	1	-90.6	-152.0	-228.8	-98.3	-152.0	-114.7	-192.4	-289.6	-124.4	-192.4	-141.6	-237.6	-357.5	-153.6	-237.6
		2	52.2	52.2	52.2	90.6	82.9	66.1	66.1	66.1	114.7	105.0	81.6	81.6	81.6	141.6	129.6
140	Hip Roof	1	-82.9	-144.4	-213.5	-98.3	-152.0	-105.0	-182.7	-270.2	-124.4	-192.4	-129.6	-225.6	-333.5	-153.6	-237.6
		2	52.2	52.2	52.2	90.6	82.9	66.1	66.1	66.1	114.7	105.0	81.6	81.6	81.6	141.6	129.6
	Monoslope Roof	1	-106.0	-136.7	-236.5	-98.3	-152.0	-134.1	-173.0	-299.3	-124.4	-192.4	-165.6	-213.6	-369.5	-153.6	-237.6
		2	44.5	44.5	44.5	90.6	90.6	56.4	56.4	56.4	114.7	114.7	69.6	69.6	69.6	141.6	129.6
	Flat Roof	1	-119.6	-187.7	-255.8	-81.7	-149.8	-151.3	-237.5	-323.7	-103.4	-189.6	-186.8	-293.2	-399.7	-127.7	-234.1
		2	NA	NA	NA	81.7	81.7	NA	NA	NA	103.4	103.4	NA	NA	NA	127.7	127.7
130	Gable Roof	1	-89.3	-149.8	-225.5	-96.9	-149.8	-113.0	-189.6	-285.4	-122.6	-189.6	-139.5	-234.1	-352.4	-151.4	-234.1
		2	51.5	51.5	51.5	89.3	81.7	65.1	65.1	65.1	113.0	103.4	80.4	80.4	80.4	139.5	127.7
	Hip Roof	1	-81.7	-142.3	-210.4	-96.9	-149.8	-103.4	-180.1	-266.3	-122.6	-189.6	-127.7	-222.3	-328.7	-151.4	-234.1
		2	51.5	51.5	51.5	89.3	81.7	65.1	65.1	65.1	113.0	103.4	80.4	80.4	80.4	139.5	127.7
	Monoslope Roof	1	-104.4	-134.7	-233.1	-96.9	-149.8	-132.2	-170.5	-295.0	-122.6	-189.6	-163.2	-210.5	-364.2	-151.4	-234.1
		2	43.9	43.9	43.9	89.3	89.3	55.6	55.6	55.6	113.0	113.0	68.6	68.6	68.6	139.5	127.7
120	Flat Roof	1	-117.7	-184.8	-251.8	-80.5	-147.5	-149.0	-233.9	-318.7	-101.8	-186.7	-183.9	-288.7	-393.5	-125.7	-230.5
		2	NA	NA	NA	80.5	80.5	NA	NA	NA	101.8	101.8	NA	NA	NA	125.7	125.7
	Gable Roof	1	-87.9	-147.5	-222.0	-95.4	-147.5	-111.3	-186.7	-281.0	-120.7	-186.7	-137.4	-230.5	-346.9	-149.0	-230.5
		2	50.7	50.7	50.7	87.9	80.5	64.1	64.1	64.1	111.3	101.8	79.2	79.2	79.2	137.4	125.7
	Hip Roof	1	-80.5	-140.1	-207.1	-95.4	-147.5	-101.8	-177.3	-262.1	-120.7	-186.7	-125.7	-218.9	-323.6	-149.0	-230.5
		2	50.7	50.7	50.7	87.9	80.5	64.1	64.1	64.1	111.3	101.8	79.2	79.2	79.2	137.4	125.7
110	Monoslope Roof	1	-102.8	-132.6	-229.5	-95.4	-147.5	-130.1	-167.8	-290.4	-120.7	-186.7	-160.7	-207.2	-358.6	-149.0	-230.5
		2	43.2	43.2	43.2	87.9	87.9	54.7	54.7	54.7	111.3	111.3	67.5	67.5	67.5	137.4	125.7
	Flat Roof	1	-115.8	-181.7	-247.6	-79.1	-145.1	-146.5	-229.9	-313.4	-100.1	-183.6	-180.9	-283.9	-386.9	-123.6	-226.7
		2	NA	NA	NA	79.1	79.1	NA	NA	NA	100.1	100.1	NA	NA	NA	123.6	123.6
	Gable Roof	1	-86.4	-145.1	-218.3	-93.8	-145.1	-109.4	-183.6	-276.3	-118.7	-183.6	-135.1	-226.7	-341.1	-146.5	-226.7
		2	49.8	49.8	49.8	86.4	79.1	63.1	63.1	63.1	109.4	100.1	77.8	77.8	77.8	135.1	123.6
100	Hip Roof	1	-79.1	-137.7	-203.7	-93.8	-145.1	-100.1	-174.3	-257.8	-118.7	-183.6	-123.6	-215.2	-318.2	-146.5	-226.7
		2	49.8	49.8	49.8	86.4	79.1	63.1	63.1	63.1	109.4	100.1	77.8	77.8	77.8	135.1	123.6
	Monoslope Roof	1	-101.1	-130.4	-225.6	-93.8	-145.1	-128.0	-165.0	-285.6	-118.7	-183.6	-158.0	-203.8	-352.6	-146.5	-226.7
		2	42.5	42.5	42.5	86.4	86.4	53.8	53.8	53.8	109.4	109.4	66.4	66.4	66.4	135.1	123.6
	Flat Roof	1	-113.7	-178.4	-243.1	-77.7	-142.4	-143.8	-225.8	-307.7	-98.3	-180.3	-177.6	-278.7	-379.9	-121.4	-222.5
		2	NA	NA	NA	77.7	77.7	NA	NA	NA	98.3	98.3	NA	NA	NA	121.4	121.4
90	Gable Roof	1	-84.9	-142.4	-214.4	-92.1	-142.4	-107.4	-180.3	-271.3	-116.5	-180.3	-132.6	-222.5	-334.9	-143.9	-222.5
		2	48.9	48.9	48.9	84.9	77.7	61.9	61.9	61.9	107.4	98.3	76.4	76.4	76.4	132.6	121.4
	Hip Roof	1	-77.7	-135.2	-200.0	-92.1	-142.4	-98.3	-171.2	-253.1	-116.5	-180.3	-121.4	-211.3	-312.5	-143.9	-222.5
		2	48.9	48.9	48.9	84.9	77.7	61.9	61.9	61.9	107.4	98.3	76.4	76.4	76.4	132.6	121.4
	Monoslope Roof	1	-99.3	-128.0	-221.5	-92.1	-142.4	-125.6	-162.0	-280.4	-116.5	-180.3	-155.1	-200.1	-346.2	-143.9	-222.5
		2	41.7	41.7	41.7	84.9	84.9	52.8	52.8	52.8	107.4	107.4	65.2	65.2	65.2	132.6	121.4
100	Flat Roof	1	-111.4	-174.8	-238.3	-76.1	-139.6	-141.0	-221.3	-301.6	-96.4	-176.7	-174.1	-273.2	-372.3	-119.0	-218.1
		2	NA	NA	NA	76.1	76.1	NA	NA	NA	96.4	96.4	NA	NA	NA	119.0	119.0
	Gable Roof	1	-83.2	-139.6	-210.1	-90.2	-139.6	-105.3	-176.7	-265.9	-114.2	-176.7	-130.0	-218.1	-328.3	-141.0	-218.1
		2	47.9	47.9	47.9	83.2	76.1	60.7	60.7	60.7	105.3	96.4	74.9	74.9	74.9	130.0	119.0
	Hip Roof	1	-76.1	-132.5	-196.0	-90.2	-139.6	-96.4	-167.8	-248.1	-114.2	-176.7	-119.0	-207.1	-306.2	-141.0	-218.1
		2	47.9	47.9	47.9	83.2	76.1	60.7	60.7	60.7	105.3	96.4	74.9	74.9	74.9	130.0	119.0
90	Monoslope Roof	1	-97.3	-125.5	-217.1	-90.2	-139.6	-123.1	-158.8	-274.8	-114.2	-176.7	-152.0	-196.1	-339.3	-141.0	-218.1
		2	40.9	40.9	40.9	83.2	83.2	51.8	51.8	51.8	105.3	105.3	63.9	63.9	63.9	130.0	119.0
	Flat Roof	1	-108.9	-171.0	-233.1	-74.5	-136.5	-137.9	-216.4	-295.0	-94.3	-172.8	-170.2	-267.2	-364.2	-116.4	-213.3
		2	NA	NA	NA	74.5	74.5	NA	NA	NA	94.3	94.3	NA	NA	NA	116.4	116.4
	Gable Roof	1	-81.4	-136.5	-205.5	-88.3	-136.5	-103.0	-172.8	-260.1	-111.7	-172.8	-127.1	-213.3	-321.1	-137.9	-213.3
		2	46.9	46.9	46.9	81.4	74.5	59.3	59.3	59.3	103.0	94.3	73.3	73.3	73.3	127.1	116.4
90	Mansard Roof	1	-74.5	-129.6	-191.7	-88.3	-136.5	-94.3	-164.1	-242.6	-111.7	-172.8	-116.4	-202.6	-299.5	-137.9	-213.3
		2	46.9	46.9	46.9	81.4	74.5	59.3	59.3	59.3	103.0	94.3	73.3	73.3	73.3	127.1	116.4
	Hip Roof	1	-95.2	-122.7	-212.4	-88.3	-136.5	-120.4	-155.3	-268.8	-111.7	-172.8	-148.7	-191.8	-331.8	-137.9	-213.3
		2	40.0	40.0	40.0	81.4	81.4	50.6	50.6	50.6	103.0	103.0	62.5	62.5	62.5	127.1	116.4