

ABOVE GRADE WALL ENERGY CONSERVATION POINTS: ZONE 6
Energy Conservation Points for 2020 National Building Code of Canada
Tiered Energy Performance Compliance: Prescriptive Path

The table below provides general energy conservation points for various above grade wall construction types. The points are generated from the insulation value of the components and uses generic values. In addition to the elements stated below, the insulation value assumes the inclusion of ½” gypsum board, 7/16” OSB, and siding.

How to use: Energy conservation points can be quickly calculated by selecting the appropriate cavity insulation, framing member spacing, and board insulation type and thickness. This guide is to calculate the energy conservation points only and is not intended as a design guide.

BOARD INSULATION		CAVITY INSULATION														
		R20			R22			R24			1/2lb Foam			2lb Foam (3" Min.)		
		FRAMING MEMBER SPACING														
		16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers	16" Centers	19.2" Centers	24" Centers
Expanded Polystyrene (EPS)	1"	5.8	5.8	5.9	6.1	6.2	6.3	6.3	6.8	6.9	5.9	6.0	6.1	1.7	1.7	1.7
	1.5"	6.3	6.8	6.9	7.7	7.8	7.9	7.9	8.9	9.0	6.9	7.0	7.7	6.0	6.0	6.1
	2"	7.9	8.0	8.9	9.2	9.3	9.9	9.9	10.0	10.5	8.9	9.0	9.2	7.0	7.6	7.7
Extruded Polystyrene (XPS)	1"	6.1	6.2	6.3	6.9	7.6	7.7	7.7	7.8	8.0	6.3	6.8	6.9	5.8	5.9	5.9
	1.5"	7.9	7.9	8.9	9.1	9.2	9.8	9.3	9.9	10.1	8.9	9.0	9.1	6.9	7.0	7.6
	2"	10.0	10.4	10.6	10.8	11.1	11.2	11.2	11.6	11.7	10.6	10.7	10.8	9.2	9.2	9.3
Polyisocyanurate	1"	6.3	6.8	6.9	7.7	7.8	7.9	7.9	8.0	9.0	6.9	7.0	7.7	6.0	6.0	6.1
	1.5"	8.9	8.9	9.1	9.3	9.9	10.0	10.0	10.4	10.6	9.0	9.2	9.3	7.7	7.7	7.8
	2"	10.6	10.7	11.0	11.2	11.6	11.7	11.7	12.1	12.2	11.0	11.1	11.2	9.9	9.9	10.0

ICF ABOVE GRADE WALL ENERGY CONSERVATION POINTS: ZONE 6

Energy Conservation Points for 2020 National Building Code of Canada

Tiered Energy Performance Compliance: Prescriptive Path

The table below provides general energy conservation points for various above grade wall ICF systems. The points are generated from the insulation value of the components and uses generic values. In addition to the elements stated below, the insulation value assumes the inclusion of ½" gypsum board and siding.

How to use: Energy conservation points can be quickly calculated by selecting the appropriate system manufacturer (note Amvic and Quadlock have multiple product lines) and the appropriate concrete core size. This guide is to calculate the energy conservation points only and is not intended as a design guide.

	CORE THICKNESS				
	4"	6"	8"	10"	12"
5" EPS Thickness Amvic Buildblock Quadlock Superform	6.0	6.1	6.1	6.1	6.2
5.25" EPS Thickness Nudura	6.3	6.8	6.8	6.9	6.9
5.5" EPS Thickness Element ICF Fox Block	7.7	7.7	7.8	7.8	7.8
6.25" EPS Thickness Amvic Quadlock	10.1	10.4	10.5	10.5	10.6
8" EPS Thickness Nudura Quadlock	13.6	13.6	13.6	13.6	13.6

ABOVE GRADE WALL ENERGY CONSERVATION POINTS: ZONE 7a
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Expanded Polystyrene (EPS)	1"	6.2	6.3	6.4	6.6	6.7	6.8	6.8	7.3	7.4	6.4	6.5	6.6	2.2	2.2	2.3
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	2"	8.4	8.4	9.4	9.7	9.8	10.3	10.3	10.4	11.0	9.4	9.5	9.7	7.5	8.1	8.2
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	2"	10.4	10.9	11.1	11.3	11.5	11.6	11.6	12.1	12.3	11.1	11.2	11.3	9.7	9.7	9.8
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	1.5"	9.3	9.4	9.5	9.8	10.3	10.4	10.4	10.9	11.1	9.5	9.7	9.8	8.2	8.2	8.3
	2"	11.1	11.2	11.4	11.6	12.1	12.2	12.5	12.5	12.7	11.4	11.5	11.6	10.3	10.3	10.4

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