

Solar Ready in Edmonton



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Dandelion  **Renewables**

Why Solar Ready?

For homeowner:

- it saves more than 50 % of the cost compared to doing it at a later date;
- it optimizes the house design at early stages to maximize future solar potential;

For builder:

- it is easy to build;
- it helps to differentiate your building company on the market.



Field Lessons Learned - 1

Intention: - Build an open chase from attic or roof to mechanical room.

Real Life:

- Entrance to the chase is not marked;
- Chase is full of insulation, construction waste and other piping;
- Basement contractors blocked access to chase.

Recommendations: Consider plastic and metallic pipes, label Solar Ready components



Field Lessons Learned - 2

Intention: - Run one PVC pipe for solar high voltage Direct Current (DC) and thermal solar.

Canadian Electrical Code, 64-014 Wiring methods:
- (1) (b) Conductors for dc renewable energy sources installed inside a building or structure shall be contained in metallic raceways, metal enclosures, or cables with a metal armour or metal sheath.

Recommendation: 1" or 3/4" EMT is sufficient for most residential solar electric systems.



Field Lessons Learned - 3

Intention: - Minimize traffic in the attic once insulation is in place.

Real Life:

will - If solar pass-thru box is not installed and not connected ahead of time, solar installers disturb insulation.

Recommendation: Consider solar pass-thru box as a part of Solar Ready process or catwalk



Solar Ready Checklist

1	Solar Electric Roof Space (~6m ² /KW)	m ²
2	Solar Hot Water Roof Space (~9m ² for domestic)	m ²
3	Conduit run for Solar Electric (3/4 – 1.5")	size
4	Pipes run for Solar Hot Water (2 x 2")	size
5	Solar Hot Water plumbing connections	Y/N
6	Electrical Outlet for Solar Hot Water	Y/N
7	Floor Space for Solar Storage Tank	Y/N
8	Room on the Wall for Inverters	Y/N
9	Room on the Wall for Solar Hot Water Controls	Y/N
10	Max Solar Electric KW based on the busbar limit	KW
11	Room for Solar breakers in Panelboard	Y/N
12	All Solar Ready components are Marked	Y/N

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