

NCC 2022 & 7 Star Residential Home Energy Rating

Climate Zone 4

7 Star is the combination of many variables and building products which work together to improve the energy efficiency of a home to a level where it meets a 7 Star energy efficiency rating.

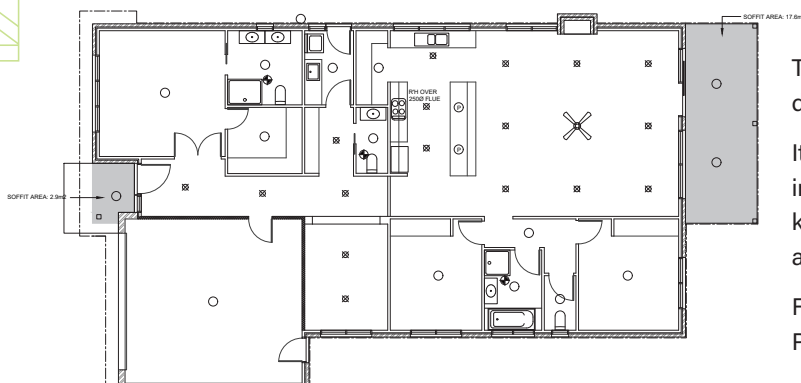
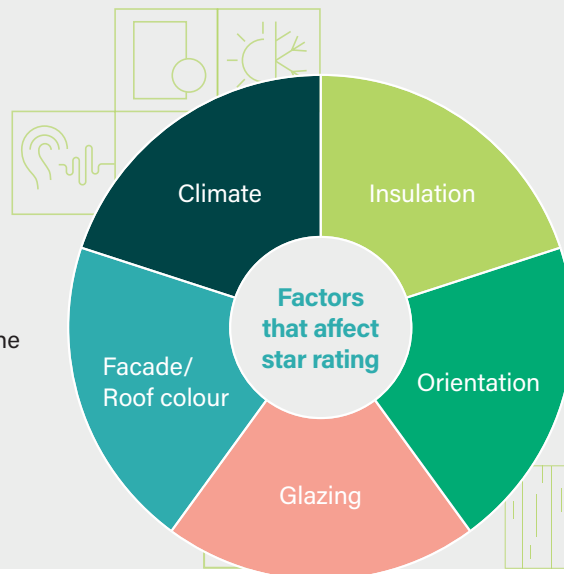
- No single product will deliver 7 Star, to achieve this 7 Star rating.
- The home's orientation, natural daylight, climate zone, ventilation, shading all contribute to 7 Star.



7 Star is an energy efficiency rating given to a new home under NatHERS, after an energy assessment is done by an energy assessor. The achievement of a 7 Star energy rating of a home is based on the NatHERS energy rating tool used to assess the energy rating of the whole home.

Meeting 7 star can be achieved through a combination of:

- Orientation to the sun to passively heat the home in winter while shading it in summer.
- High performance glazing (windows) to better insulate the home from heat loss in winter and heat gain in summer.
- Insulating intelligently.
- Ensuring the external facades and roof colour manage incoming solar heat gain.



This standard house was modelled with different tiers of insulation.

It was modelled according to NATHERS in Hero software where all variables were kept the same; only the insulation was altered/upgraded.

For Climate Zone 4, post code 5700, Port Augusta, SA was used.

Product tiers

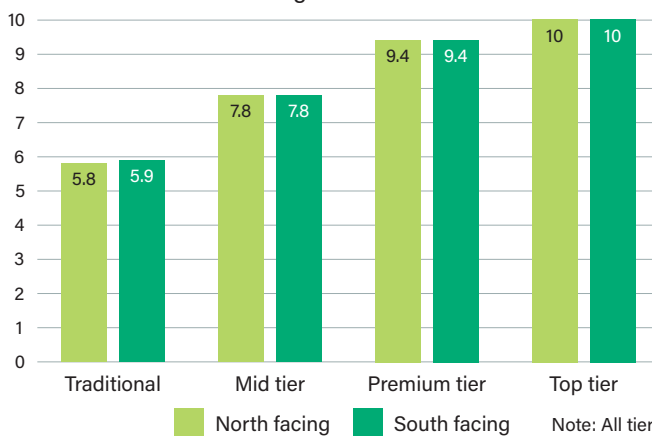
Traditional	External walls: R2.5
	Ceiling: R4.1
Mid tier	External walls: R2.7
	Internal walls: R2.0
	Ceiling: R5.0
	Roof: Sarking
Premium tier	External walls: R2.7
	Internal walls: R2.5
	Ceiling: R6.0
	Ceiling: Perimeter batt
	Roof: R1.5 Resituff blanket
Top tier	External walls: R4.0
	Internal walls: R2.7
	Ceiling: R7.0
	Ceiling: Perimeter batt
	Roof: R1.5 Resituff blanket

The insulation used



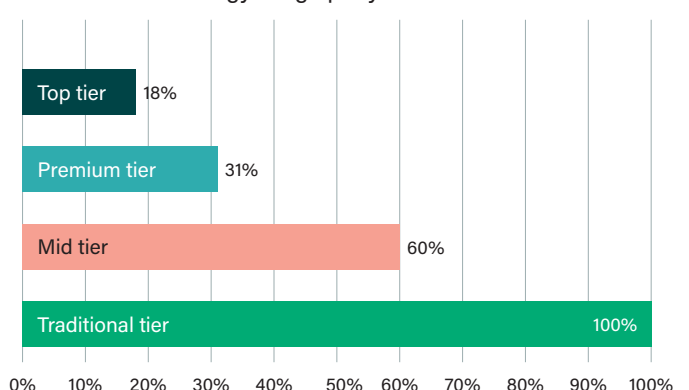
Good, Better, Best options

Star rating in Climate Zone 4



The benefit and payback (ROI)

Climate Zone 4 energy usage per year relative to Traditional tier



For example,
your energy bill
could be:

\$251/year
Top tier

\$428/year
Premier tier

\$841/year
Mid tier

\$1400/year
Traditional tier



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