



## Residential Assessments: Types & Prices

*To understand the thermal performance of buildings and determine where their energy efficiency can be most improved, Energy Imaging staff use specialised diagnostic equipment and modelling tools to conduct a variety of assessments.*

### Prices of our most popular assessment types, for an average 4 bedroom home

Ceiling insulation assessment using thermal imaging	\$253
Air leakage assessment using fan depressurisation and thermal imaging	\$363
Ceiling insulation + air leakage assessment	\$561
Energy efficiency rating	\$420
Home sustainability (Green Loan) assessment	FREE

Prices include the production of a written report summarising findings and including suggestions on ways to improve the energy efficiency of the home. If the assessment involved thermal imaging then images illustrating issues are also included.

Prices are reduced if written reporting and/or thermal image processing is not needed because:

1. residents wish to participate in the assessment and personally record the problems detected
2. very few problems are found

*More detail about the nature and pricing of different assessments (and combinations of assessments) can be found on the following pages. Please ring the friendly Energy Imaging staff if you have any questions or would like to discuss your home and assessment needs.*

## Insulation Assessment using Thermal Imaging

Thermal imaging is used to rapidly determine where insulation is missing or improperly installed. Just small gaps in insulation can reduce its effectiveness by 50%.

	House floor area < 150 m <sup>2</sup>	House floor area > 150 m <sup>2</sup>
<b>TC</b> Thermal imaging of ceilings	\$198	\$253
<b>TW</b> Thermal imaging of walls	*\$220	*\$286
<b>TC</b> Pre- & Post-retrofit	\$341	\$440
<b>TW</b> Pre- & Post-retrofit	\$385	\$495
<b>TC + TW</b>	\$374	\$484

\*thermal imaging & reporting on walls is more time consuming due to restrictions on visual access caused by furnishings and greater complexity in interpreting/processing images.

## Air Leakage Assessment using Fan Depressurisation and Thermal Imaging

Our technologies allow us to measure how drafty your home is *and* locate exactly where the leakage is occurring. Fan depressurisation equipment is used to measure the draftiness (or leakage rate) of the house and help locate air leakage sites. Combining this technology with thermal imaging allows otherwise undetectable leaks to be detected. Most clients choose to combine this testing with a thermal imaging insulation assessment.

	House floor area < 150 m <sup>2</sup>	House floor area > 150 m <sup>2</sup>
<b>AL</b> Air leakage analysis	\$275	\$363
<b>AL</b> Pre- & Post-retrofit	\$495	\$638
<b>TC + AL</b>	\$429	\$561
<b>TW + AL</b>	\$451	\$583
<b>TC + TW + AL</b>	\$594	\$770

## Insulation Assessment + Air Leakage Assessment

Improving your home's building envelope by air-sealing and insulating, together, is the most effective thing you can do to reduce your energy use. Installing insulation, to reduce your home's conductive heat loss and gain, without air sealing to prevent direct convective heat loss, compromises the effectiveness of your building envelope.

	< 150 m <sup>2</sup>	> 150 m <sup>2</sup>
<b>TC + AL</b>	\$429	\$561
<b>TW + AL</b>	\$451	\$583
<b>TC + TW + AL</b>	\$594	\$770

## EER/Building Thermal Performance Rating

EER assessments are conducted using FirstRate 5 and reports are generated in a standard format (with a summary and features report) based on the plans provided. If the house specified on the current plans does not reach the required minimum rating we will make suggestions on how to improve the rating (and test them in the software). Please note, however, if this optimisation phase is not relatively straightforward, or the client wishes us to try multiple options, we will have to charge additional costs at an hourly rate.

Please email a copy of the house plans so that we can provide a quote on EER assessment or use the EER Cost Calculator on our web site: [energy-imaging.com.au](http://energy-imaging.com.au) → energy rating.

Please note that second generation software requires much more detailed data entry than first generation software and runs complex simulations based on the specific house 'constructed' in the computer model. Energy Imaging staff have an additional level of EER accreditation with the Association of Building Sustainability Assessors (ABSA) and are required to submit their EER assessments with further details to ABSA who audit them for accuracy and quality. Large and complex (eg. multi-level, multi ceiling-height) designs may cost significantly more due to the extra time required to enter data to 'construct' the house accurately in the software and satisfy ABSA's reporting requirements.

The table below provides a general guide:

Standard 3 or 4 bedroom single level home	\$330 – \$420
Standard 4 or 5 bedroom two storey home	\$410 – \$520
Large complex homes eg multiple floor levels	\$660 – \$990
Extra time required to optimise plans/improve rating	\$99/hour

## Home Sustainability/Green Loan Assessments

Energy Imaging is a partner in the Australian Government's Green Loans Program. Green Loans is funding free home sustainability assessments to show you how to save energy and water and reduce greenhouse gas emissions. The program also offers interest-free Green Loans for recommended improvements.

For more information about the Green Loans Program visit: [www.environment.gov.au/greenloans](http://www.environment.gov.au/greenloans)

Bookings can be made:

1. via the Green Loans hotline where you will be allocated an assessor operating in your area
2. by contacting Energy Imaging who will organise the booking with the government on your behalf.