
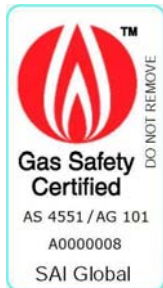


# Gas Safety

## A Guide to the Gas Safety Certification Scheme (GSCS)

All gas products (domestic, commercial and industrial) supplied and installed in Australia must comply with certain safety requirements specified by the gas industry regulators. For example, all new gas appliances that are being installed need to comply with AS 5601, the Australian Standard for gas installations.

SAI Global offers the Gas Safety Certification Scheme (GSCS) pursuant to which you can demonstrate independent assurance to your customers that your gas appliances and components comply with the relevant standards.

<p><b>SAI Global Expertise</b></p>	<p>SAI Global Limited is one of the world's leading business publishing, compliance, training and assurance organisations with offices in North America, Europe, Australia, New Zealand and Asia. Our experience in Assurance Services gives us the ability to assist you with audit services that can help you to manage your risks.</p> <p>You can draw on the expertise and experience of our audit team that comes from a wide range of industries and academic disciplines.</p> <p>SAI Global auditors are selected for specific audit activities based on their qualifications, skills and industry experience that match the business needs of our clients.</p>
<p><b>Gas Safety Certification Mark and Label</b></p>	<p>SAI Global's Gas Safety Certification Scheme is a type-test program, where compliance to the relevant standard is confirmed through independent testing and review of test reports. Market surveillance reviews the ongoing quality of certified gas appliances and components.</p> <p>All gas appliances and components, which have been certified by SAI Global under this scheme, will have a Gas Safety Certification Mark Label affixed to them – a practical and effective way of identifying certified released product.</p> <p>The Gas Safety Certification Mark Label is a high quality, durable product. The base material is glossy silver, metallised, top-coated polyester security film, which includes two post-certification fields – the certification standard and a serial number.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SAI Global Gas Safety Certification Mark</p>  </div> <div style="text-align: center;"> <p>SAI Global Gas Safety Certification Mark Label</p>  </div> </div>
<p><b>Gas Safety Certification Scheme Scope</b></p>	<p>Appliance and component types covered by the Standards are detailed on Page 2.</p> <p>The SAI Global Gas Safety Certification Scheme defines the domestic, commercial and industrial appliances and components covered by specific Standards and the gas types for which they are intended. Additionally, the relevant appliance and component standards provide comprehensive scope details.</p> <ul style="list-style-type: none"> <li>• Type A appliances are limited to gas consumptions not exceeding 500 Mj/h</li> <li>• Installation instruction requirements are prescribed in AS 5601.</li> </ul>

<b>General Information</b>	<b>COMMON STANDARDS USED IN THE SAI GLOBAL CERTIFICATION SCHEME</b>																
	<b>PRODUCT GROUP – PRODUCT DESCRIPTION</b>	<b>STANDARD</b>															
	<b>Appliances:</b>																
	Domestic gas cooking appliances Gas fired water heaters for hot water supply and/or central heating Gas space heating appliances Gas laundry dryers Domestic gas refrigerators Indirect gas-fired ducted air heaters Domestic outdoor gas barbeques Decorative gas log and other fuel effect appliances Gas pool heaters Commercial catering gas equipment Radiant gas heaters for outdoor and non-residential indoor use Approval requirements for overhead radiant tube heaters Approval requirements for LPG mobile industrial direct fired air heaters Liquefied Petroleum (LP) Gas – Portable and mobile appliances	AS 4551 / AG 101 AS 4552 AS 4553 / AG 103 AS 4554 AS 4555 / AG 105 AS 4556 / AG 106 AS 4557 AS 4558 / AG 108 AS 4560 AS 4563 AS 4565 AG 403 AG 404 AS 2658															
	<b>Components:</b>																
Fuel cowls – Gas appliances Twin wall metal fuels – Gas appliances Manual shut off gas valves Gas appliance regulators Gas appliance thermostats Thermoelectric flame safeguards Regulators for use with liquefied petroleum – Vapour phase Electrical and electronic ignition devices for gas appliances Joining compounds and materials for use in gas pipe joints Combination controls for gas Electronic flame safeguards and flame detectors Quick-connect devices for gas Pressure and temperature limit devices for use with gas burners Automatic shut off valves and vent valves Leakage detection systems Limited flexibility connectors for gas Over-pressure and under-pressure cut off devices LP Gas fuel systems for vehicle engines Hose and hose assemblies for liquefied petroleum gas (LP Gas), natural gas and town gas Automatic gas burner control systems for gas burners and gas burning appliances with or without fans	AS 4566 AS 4567 AS 4617 AS 4618 AS 4619 AS 4620 AS 4621 AS 4622 AS 4623 AS 4624 AS 4625 AS 4627 AS 4628 AS 4629 AS 4630 AS 4631 AS 4632 AS/NZS 1425 AS/NZS 1869  EN 298																
<b>GAS TYPE / APPLIANCE INLET PRESSURE / BURNER PRESSURE</b>																	
In Australia appliances are certified for use with one or more of the following gas types with corresponding inlet pressures and burner pressures.																	
<table border="1"> <thead> <tr> <th data-bbox="478 1447 1011 1518">Gas Type</th> <th data-bbox="1011 1447 1254 1518">Appliance Inlet Pressure</th> <th data-bbox="1254 1447 1497 1518">Burner Pressure (maximum)</th> </tr> </thead> <tbody> <tr> <td data-bbox="478 1518 1011 1554">Natural Gas (NG)</td> <td data-bbox="1011 1518 1254 1554">1.13 kPa</td> <td data-bbox="1254 1518 1497 1554">1.00 kPa</td> </tr> <tr> <td data-bbox="478 1554 1011 1590">Town Gas (TG)</td> <td data-bbox="1011 1554 1254 1590">0.75 kPa</td> <td data-bbox="1254 1554 1497 1590">0.63 kPa</td> </tr> <tr> <td data-bbox="478 1590 1011 1626">Liquefied Petroleum Gas (LPG)</td> <td data-bbox="1011 1590 1254 1626">2.75 kPa</td> <td data-bbox="1254 1590 1497 1626">2.75 kPa</td> </tr> <tr> <td data-bbox="478 1626 1011 1671">Tempered Liquefied Petroleum Gas (TLP)</td> <td data-bbox="1011 1626 1254 1671">0.75 kPa</td> <td data-bbox="1254 1626 1497 1671">0.63 kPa</td> </tr> </tbody> </table>			Gas Type	Appliance Inlet Pressure	Burner Pressure (maximum)	Natural Gas (NG)	1.13 kPa	1.00 kPa	Town Gas (TG)	0.75 kPa	0.63 kPa	Liquefied Petroleum Gas (LPG)	2.75 kPa	2.75 kPa	Tempered Liquefied Petroleum Gas (TLP)	0.75 kPa	0.63 kPa
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<b>N.B.</b> LPG is defined into three categories – Propane, Butane and Universal (a combination of Propane and Butane) SAI Global may consider certification for use with other gas types upon request.																	
<b>APPLIANCE REGULATORS</b>																	
Appliance regulators are to be provided with NG, TG and TLP appliances.																	
<b>INSTRUCTIONS</b>																	
All appliances must include comprehensive instructions, covering installation, operations and servicing.  The installation instructions are required to comply with AS 5601; any conflict arising between the manufacturer’s instructions and those detailed in AS 5601 must be referred to the technical regulator.																	

<b>Steps to Certification</b>	<b>Product Review</b>
	<ul style="list-style-type: none"> <li>SAI Global recommends that you select and purchase the relevant product Standard(s), available from <a href="http://www.saiglobal.com/shop/Script/search.asp">http://www.saiglobal.com/shop/Script/search.asp</a></li> <li>Review your product with respect to the design, performance and installation instructions of the relevant Standard(s), identifying and addressing any areas of deficiency.</li> </ul>
	<b>Application Form</b>
	<ul style="list-style-type: none"> <li>Complete the 'Gas Safety Certification Scheme' (GSCS) application form and submit it with the technical specifications, instructions and the appropriate fees to SAI Global.</li> <li>SAI Global allocates a Project Coordinator, who reviews the documentation and makes initial contact with you. At this stage the Project Coordinator may request additional information and/ or product sample(s) for review.</li> <li>N.B. Refer relevant product Standard(s) for detailed specification and instruction requirements.</li> </ul>
	<b>Product Testing</b>
	<ul style="list-style-type: none"> <li>Upon reviewing the documentation, the Project Coordinator provides you with a Type Test Schedule, a list of SAI Global recognised laboratories and initiates the test sample selection.</li> <li>Forward the test sample(s) to the preferred laboratory with a copy of the test schedule, product specifications and product instructions.</li> </ul>
	<b>Test Report Review</b>
	<ul style="list-style-type: none"> <li>On completing the test schedule, the test laboratory provides to SAI Global a full and complete original test report, for assessment.</li> <li>Upon completing the report assessment, the Project Coordinator provides to you formal advice, outlining any corrective actions and/or additional work required to complete the certification. This advice may also include a request for a 'product audit' to ensure all corrective actions have been satisfactorily addressed.</li> </ul>
	<b>Final Review</b>
	<ul style="list-style-type: none"> <li>At this stage you are asked to provide SAI Global with amended specifications, instructions, markings, additional report(s) and audit sample(s), as identified at the report review stage.</li> <li>If the review is successful the project is progressed to the certification stage and if not, you are advised of any concerns and actions required to progress the project.</li> </ul>
<b>Issue Certificate</b>	
<ul style="list-style-type: none"> <li>SAI Global completes the certification documentation, delivers to you the 'Gas Safety Certification' certificate, details of product(s) covered under the certificate and updates the SAI Global web based certification listing. The web-based product listing details all SAI Global certified products, including Gas product and is publicly available information for you and your customers. Refer to <a href="http://register.sai-global.com/">http://register.sai-global.com/</a></li> <li>Congratulations! Your product(s) are now certified.</li> </ul>	
<b>Maintain Certification</b>	
<ul style="list-style-type: none"> <li>This process requires SAI Global to review the certified product(s) with respect to the registered specifications, instructions, relevant Standard(s) and regulatory requirements.</li> <li>You are requested to notify SAI Global of any changes in the certified product(s) and/or documentation that may have any adverse affect on the safety, performance or reliability of the product(s).</li> </ul>	

Website [www.saiglobal.com](http://www.saiglobal.com)

**Australia**

Phone 1300 360 314  
Email [product@sai-global.com](mailto:product@sai-global.com)

**Bangladesh**

Phone +880 2 8754891  
Email [sai.global.bd@gmail.com](mailto:sai.global.bd@gmail.com)

**China**

Phone +86 10 6567 6366

**Czech Republic**

Phone +420 583 283459  
Email [info@efsis.cz](mailto:info@efsis.cz)

**Egypt**

Phone +202 275 2247  
Email [egypt@sai-global.com](mailto:egypt@sai-global.com)

**France**

Phone +33 555 353587  
Email [info@efsis-france.com](mailto:info@efsis-france.com)

**Germany**

Phone +49 431 5606 400  
Email [efsis\\_deutschland@efsis.com](mailto:efsis_deutschland@efsis.com)

**Georgia**

Phone +995 32 205771  
Email [tbilisi@sai-global.com](mailto:tbilisi@sai-global.com)

**India**

Bangalore  
Phone +9180 2226 7272  
Email [sai\\_global.blr@vsnl.net](mailto:sai_global.blr@vsnl.net)

Mumbai

Phone +91 22 3245 8739  
Email [sai\\_global.mum@vsnl.net](mailto:sai_global.mum@vsnl.net)

**Indonesia**

Jakarta  
Phone +62 21 720 6186  
Email [marketing.jakarta@sai-global.co.id](mailto:marketing.jakarta@sai-global.co.id)

Medan  
Phone +62 61 4514501  
Email [marketing.medan@sai-global.co.id](mailto:marketing.medan@sai-global.co.id)

Surabaya  
Phone +62 31 568 7155  
Email [marketing.Surabaya@sai-global.co.id](mailto:marketing.Surabaya@sai-global.co.id)

**Ireland**

Phone +353 402 26920  
Email [enda\\_murphy@efsis.com](mailto:enda_murphy@efsis.com)

**Italy**

Phone 011 51 65 700  
Email [certo@certo.it](mailto:certo@certo.it)

**Japan**

Phone 03 3227 6112

**Korea**

Phone 82 2 717 9001  
Email [korea@sai-global.com](mailto:korea@sai-global.com)

**Mexico**

Phone +52 555 105 2218  
Email [sales.mx@sai-global.com](mailto:sales.mx@sai-global.com)

**New Zealand**

Phone +64 9 415 1614  
Email [info@sai-global.co.nz](mailto:info@sai-global.co.nz)

**Russia**

Phone +7 812 275 47 61  
Email [andreypro@aport2000.ru](mailto:andreypro@aport2000.ru)

**South Africa**

Phone +27 11 394 8117  
Email [roelof.mouton@saiglobal.co.za](mailto:roelof.mouton@saiglobal.co.za)

**Spain**

Phone +34 915 247544  
Email [efsis\\_spain@efsis.com](mailto:efsis_spain@efsis.com)

**Sweden**

Phone +46 31 335 1335  
Email [efsis\\_scandinavia@efsis.com](mailto:efsis_scandinavia@efsis.com)

**Thailand**

Phone +66 265 71947  
Email [pirapol\\_klipbua@efsis.com](mailto:pirapol_klipbua@efsis.com)

**Turkey**

Phone +90 212 347 08 65  
Email [burcin.yumrukcu@sai-global.com](mailto:burcin.yumrukcu@sai-global.com)

**United Kingdom**

Phone +44 1926 86 3116  
Email [uk@sai-global.com](mailto:uk@sai-global.com)

**United States of America**

Phone +1 866 724 4562  
Email [sales.us@sai-global.com](mailto:sales.us@sai-global.com)