

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

NO. 4940

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📍 Infotech Building, 1090 Arcadia Street, Hatfield, Pretoria  
✉ PO Box 1022, Garsfontein, 0042  
☎ +27 (0) 64 864 0129  
@ [agrement@agrement.co.za](mailto:agrement@agrement.co.za)



## DEPARTMENT OF PUBLIC WORKS

## AGRÉMENT SOUTH AFRICA

(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 13 December 2023, issued an Agrément certificate, details of which appear in the schedule hereto.

## SCHEDULE

Agrément Certificate 2023/648 (Approved December 2023)

**Subject:** DesignBuilder (Version 6.1) Building Energy Analysis Software

**Certificate holder:** Greenplan Consultants (Pty) Ltd

**Description:** *DesignBuilder* Energy Analysis Software is an interface for the US Department of Energy software, *EnergyPlus*. *EnergyPlus* has been developed from both the *BLAST* (Building Loads Analysis and System Thermodynamics) and the *DOE-2* programmes of the 1970s and 1980s.

*DesignBuilder* Energy Analysis Software may be used for the rational design of air-conditioned buildings or naturally ventilated buildings of all occupancies in terms of the requirements of Regulation XA3 b) and c) of Part XA: *Energy usage in buildings* of the National Building Regulations.

**NB.** *Designbuilder* Version 6.1 also includes the following attributes:

- existing capabilities and additional elements in the detailed Heat Ventilated Air Conditioner (HVAC) modelling environment
- a new optimisation engine
- improvements in data visualisation and model rendering
- an application programme Interface (API) with scripting tools for third-party developers and advanced users and
- ability to run multi-year simulations in special cases (e.g., modelling for geothermal heat exchange systems).

[www.agrement.co.za](http://www.agrement.co.za)

Prof. Jeffrey Mahachi (Acting Board Chairperson), Mr Richard Somanje (Agrément South Africa CEO)  
Board Members: Dr Ntebo Ngcobo, Adv. Lufuno Tokyo Nevondwe, Dr Vuyelwa Nhlapo, Mr Xolisa Mnyani,  
Mrs Mariana Marneweck, Mr Denzil Fredericks, Mr Mfundo Xulu Ka-Dlamini

This certificate and Agrément South Africa's assessment apply only to the *Designbuilder* (Version 6.1) Building Energy Analysis Software developed by the certificate holder as described in this certificate and where terms and conditions of certification are adhered to.

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>.

Copies are obtainable from: Chief Executive Officer (CEO)

Agrément South Africa, P O Box 1022, Garsfontein, 0042

