Request sheet for Solar Simulation Systems

1. General

Customer:

Project:

Quote until date:

Bidding start:

Delivery time:

2. Application

What kind of test should be performed?

☐ Sun Simulation for component or vehicle tests

☐ Solar heat Test (Infrared Light) of components or vehicles

☐ other

Which standards must be observed?

Solar Simulator according:

☐ DIN 75220 outdoor test

☐ DIN 75220 indoor test

☐ MIL-STD 810G Part B 505.5 Procedure I

☐ MIL-STD 810G Part B 505.5 Procedure II

☐ other

What kind of samples/specimen should be tested?

☐ Componets

☐ Complete cars or vehicles

☐ other

What are the dimensions of the samples/specimen?

Length: min. m max. m

Height : min. m max. m

Width : min. m max. m

Specification of the Irradiation plane, Intensity range, Homogeneity (please see sketch below)

Length L: m

Height H: m

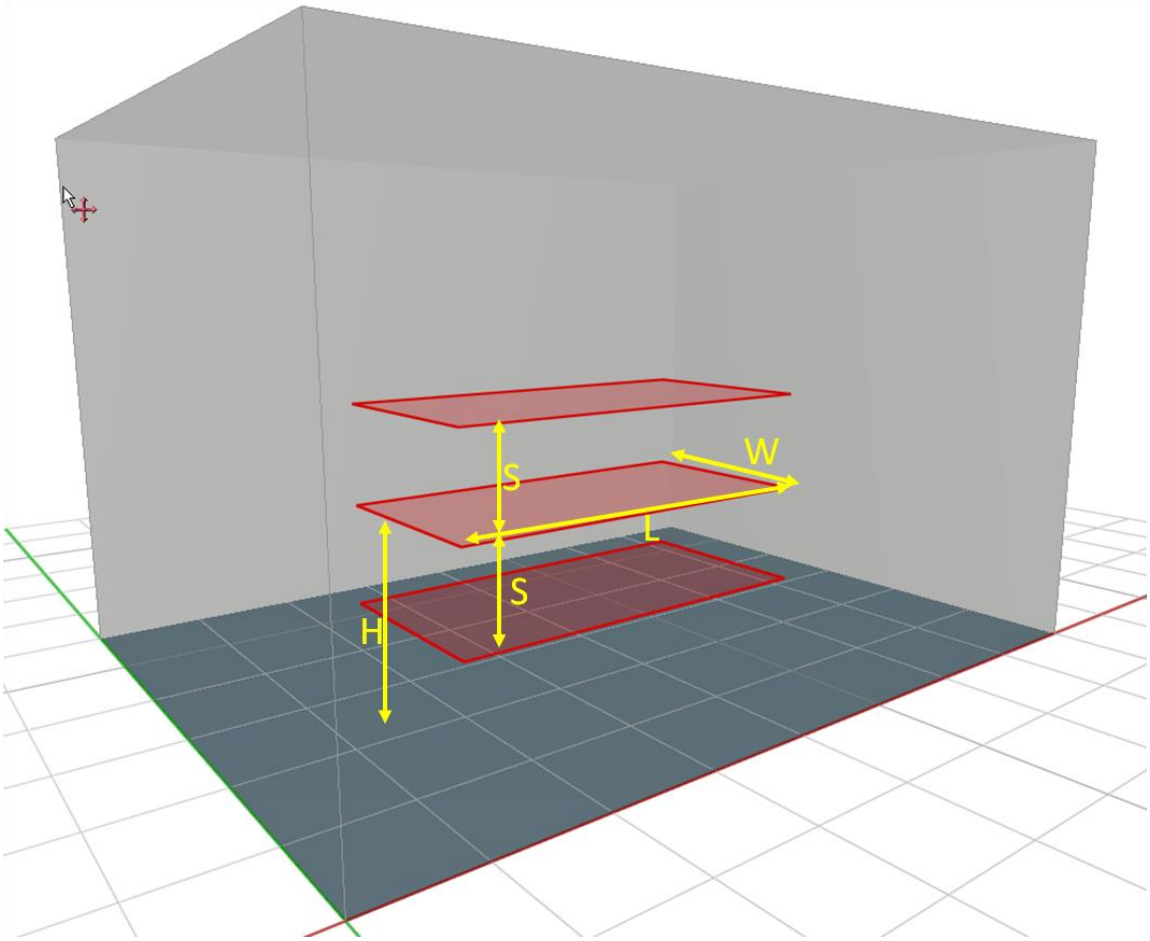
Width W: m

Intensity range min: W/m² up to max. W/m²

Homogeneity in the irradiation plane: %

Homogeneity in the Volume above the reference plane: %

Size of the Volume above and below the reference plane: m



Is simulation of clouds required (cloud shutter)?

☐ Yes ☐ No

Is simulation of a tunnel required (tunnel shutter)?

☐ Yes ☐ No

Is Height adjustment of the Sun Simulation System required?

☐ Yes ☐ No

☐ for test procedure (in case of different car size)

☐ Yes

Is it required to tilt or adjust the complete frame or parts of the frame for the test procedure (to simulate sunrise, sun set, etc)?

☐ Yes ☐ No

What are the dimensions of the climate chamber?

Length: _____ m

Height : _____ m

Width : _____ m

What is the temperature range while operating the Sun Simulation system?

Temperature range from: _____ °C up to _____ °C

What is the storage temperature range for the Sun Simulation system?

Temperature range from: _____ °C up to _____ °C

Is a wind tunnel integrated into the climate chamber?

☐ Yes ☐ No

If yes, please provide the following information:

Wind speed: max. _____ km/h

Size of the nozzle:

Height : _____ m

Width : _____ m

Control of the Sun Simulation system with:

☐ stand alone PC

☐ via connection to chamber/Dynamometer/SunSim Control System PC

in case of connection to the control system, please specify the type of connection/software protocoll: _____

What is the average distance for cable routing between the chamber and switch cabinet?

_____ m

Where should be exit (lamp cables) and entry (power cable) of the cables out and into the electrical cabinet?

Entry for power cables:

☐ top ☐ bottom ☐ left ☐ right

Exit of the lamp cables:

☐ top ☐ bottom ☐ left ☐ right

What electrical supply is available?

☐ 3 Phase	☐ Single Phase
☐ neutral wire	☐ neutral wire
☐ ground wire	☐ ground wire
Voltage: _____ V	Voltage: _____ V
Frequency: _____ Hz	Frequency: _____ Hz
Voltage Stability: ± _____ %	Voltage Stability: ± _____ %

Do you have any other special requirements?

☐ Yes ☐ No

If yes, please describe: