

GS 900 Load Data for Ceiling Mount Installation

From time to time, we receive questions from architects or engineers regarding the structure that will hold a ceiling mounted GS900 light. Welch Allyn does not provide this information, but we do provide them with the details they would need to do their job correctly.

The below response was approved by Service Engineering:

Welch Allyn does not dictate what materials should be used to hold up the light; however, we can provide the weight of the light and the force used when the light is manipulated. For ease of reference, please find below the relevant sections of the Ondal instructions.

2 Selection of the fastening agent

- The selection of the fastening agent according to table 1, „Loading data“ and the safe execution of the fastening is the responsibility of the person in charge of the installation.
- In case of light construction walls, we recommend fastening with a counter-plate (not shipped).



WARNING - Load data:

- The load torque on the spring arm of the wall-mounted device must not exceed 39 Nm.
- The load torque on the spring arm of the ceiling-mounted device must not exceed 30 Nm.
- The load data indicated do not include safety factors. The specified regional safety factors must be taken into account!

The load data of the wall and ceiling models can be taken from the following table.

Table 1:

Loading data for wall mount		
Load torque wall mount	Vertical force of weight	Extraction force for each dowel (total 2 pieces)
110 Nm	97 N	625 N

Loading data for ceiling mount		
Load torque ceiling mount	Vertical force of weight	Extraction force for each dowel (total 4 pieces)
85 Nm	147 N	405 N

Weight in kg	Ceiling-unit	Wall-unit	Stativ-unit
Spring arm (standard)	1,8 kg	1,8 kg	1,8 kg
Extension arm	1,9 kg	1,9 kg	—
Ceiling mounting	3,0 kg - 7,9 kg	—	—
Wall bearing	—	1,8 kg	—
Stativ	—	—	3,5 kg
Stativ base	—	—	6,5 kg
Stativ base (weighted)	—	—	12,0 kg 15,0 kg 18,0 kg