

General Concept in Supplying Data for Calculations.

All data is based on the metric system and usually the unit to be used is clearly indicated at the point where the information has to be supplied.

The wind speed is always supplied in m/sec or Km/h and the unit is clearly indicated on the spot where the data has to be entered.

When the user has to indicate loads or forces, the system expects Kgf (Kilogram Force). In the same manner, pressure must be given in Kgf/m². All data with respect to wind pressure will be supplied as if the actual wind would have a real pressure of 100 kgf/m². The system will then make all necessary adjustments.

In some cases it is possible to supply data in the US system of units that is: in pounds and inches. However, when such a system is used, the applications will automatically translate all the data into metric units to compute the structure and then all results will be translated back into the original system of units for the sake of presentation. Here it is important to remember that during conversion there is always a loss of precision that is reflected on the results. As far as possible, we recommend not to use this feature.

To summarize, the data entry is very simple. One only needs to follow the instructions of the SmLoader application step-by-step while supplying the requested data. When all the data has been collected and saved by SmLoader, the application XVerauto must be launched, this can be from the “Execute” menu, to proceed with the calculations and output the results in a summary form. Please note that the F1 button may be pressed at any time to obtain context specific explanations.