



# BIM SERVICES – DESIGN CORE

Item No. 2230066



**Design of the collection of Hilti MEP Supports covering re-occurring requirements of defined project areas as mutually agreed in the Hilti Framework service. Each Hilti MEP Support can be reused several times for project applications with the same or lower requirements. The aim is to arrive at a collection of Hilti MEP Supports that cover most of the project needs. The remaining exceptionally complex areas/cases that cannot be covered by such solutions in the Hilti Design Core can be addressed in the Hilti Design Specifics service.**

## Deliverables

- **A collection of designs for Hilti MEP Supports** for the project areas and requirements agreed to be in scope with the customer in the Hilti Framework service. 3D views and material take-offs (bill of materials) will be provided for each. Each engineering report for a Hilti MEP Support indicates the maximal applicable requirements within the relevant project area that can be copied to all situations with the same or lower requirements. All will be compiled and provided in a PDF report.
- **Engineering reports** (software design reports) providing the underlying calculations for the designed Hilti MEP Supports. Use of Hilti MEP Supports for requirements not specifically stated in the relevant engineering report may not be possible and therefore requires a prior individual assessment.

## Scope

- **Solutions will be designed based on static loading.** On request, seismic loading as well as thermal expansion can be considered. Fatigue design is out of scope.
- **This service does not intend to provide individual designed solutions,** rather a generic solution that can be copied within the project areas and requirements in scope.
- **BIM modeling is out of scope,** yet the designed collection of Hilti MEP Supports will be the basis on which the customer or Hilti can start BIM modelling.

## Execution

- Service will be performed by a **Hilti engineer** and with the coordination of a **Hilti project manager**.
- **Service will only start once Hilti receives and confirms the Service Order,** customer has provided all Project Requirements and the exact scope of work and estimated delivery date has been agreed upon.

## Customer duties

- **Provide all the Project Requirements** for service execution including boundary conditions, loads as well as specific customer preferences.
- **Access to the Project BIM-models,** located in the Common Data Environment, indicating clearly which models must be considered.
- **Proactively inform Hilti in case of changes** to the Project BIM-models and/or Project Requirements. While Hilti will use its best efforts to deliver on the originally estimated date, with project changes a new delivery date and service charges will need to be agreed upon.
- **Review service output** within 5 working days and raise any defects in writing to Hilti during this period.

## Payment

- The service will be invoiced based on hourly rate. **Lumpsum will be provided** based on given Project Requirements and Project BIM-models.
- The service will be charged according the agreed payment schedule.

## Complementary

- This service description only applies together with the Hilti BIM Protocol and the BIM Framework Agreement or alternatively the Hilti standard terms & conditions of sale available at [www.hilti.sg](http://www.hilti.sg) apply.