

**Lighting Design Scope of Services****Introduction**

In order to establish and agree a fee for our lighting design services a 'Scope of Works' document is provided.

Scope of Works for **AEC** fee-based appointments is as described below and is divided in Stages I-V. Stage I is an optional stage.

**Scope of Services**

Scope of services for Fee-Based appointments as laid out by **AEC**. The Scope is based on appointments and is divided in Stages I - V. Note that Stage I is optional. **Stage I -**

**Inception and Feasibility**

Consists of the following:

- Assistance in project planning and brief development
- Assistance in the preparation of cost reports and other consultation documents.
- Production of design feasibility reports.

**Stage II - Concept Design**

- Briefing and presentation meetings with the client (the number of meetings and presentations will be quantified).
- Design meetings with the Architect and other Consultants as considered necessary by the design team (the number of meetings and presentations will be quantified).
- Carrying out of conceptual design studies.
- Production of presentation materials to convey the overall design intention (excludes special renderings and computer generated images).
- Assistance with the preparation of a defined lighting budget including outline report.

On approval of Stage II

**Stage III - Design Development**

- Design meetings with the Architect and/or other Consultants, as considered necessary by the design team (the number of meetings and presentations will be quantified).
- Preparation of preliminary lighting layouts.
- Preparation of an outline specification including typical fitting data.
- Preparation of preliminary sketch design details where applicable.
- Provision of a control method statement and outline schedule.
- Checking of typical lighting calculations.
- Provision of an approximate cost-in-use report.
- Provision of an equipment cost report.

On approval of Stage III

**Stage IV - Detailed Design and Production**

- Design meetings with the Architect and other Consultants as considered necessary by the design team (the number of meetings and presentations will be quantified).
- Assistance is provided in co-ordinating lighting design with architectural, electrical, structural and mechanical design.
- Final layouts of the proposed lighting design supplied on working drawings provided by others, in AutoCAD format.
- Final specification and schedule of luminaires, lamps and associated equipment.
- Provision of lighting design details where applicable, for incorporation in the Architect's details.
- Final specification for the operational requirements of the control system and control schedule.
- Risk assessment carried out on design information in accordance with requirements of Construction (Design Management) Regulations.

**Important Notes:**

The exact method of fastening or connection must be verified by the Architect / Structural Engineer.

It is assumed that CAD discs / drawings provided for our use will be in a ready-to-use format for the purpose of **AEC**.

This proposal assumes that the Architect and Electrical Engineer are to maintain their usual role of co-ordination of the design and supervision of the lighting installation on site.

Stage IV information is for use by the Architect and Engineer for the preparation of the construction / tender documentation. AEC drawings, specifications and other information are not to be issued direct to the contractor as tender or as construction information.

**Stage V – Construction, Focusing and Programming**

Consists of the following:

- Contract meetings with the Construction and Design Team as considered necessary by the Design Team (the number of site meetings will be quantified).
- Review and check of manufacturers' shop drawings of control equipment.
- Final review of lighting installation and supervision of focusing of adjustable luminaires. (The number of focusing sessions will be quantified for this stage). The Electrical Contractor will supply personnel to perform this work in compliance with the local legislation and union agreements.
- Programming of installed control equipment where applicable (the number of programming sessions on site will be quantified for this stage). This will be carried out following the Manufacturer's commissioning of the system and after the Contractor's confirmation of all circuits as being correctly installed, labelled and operational.

**Important Notes:**

The lighting installation can only be focused and programmed when all the lighting is installed i.e. fully operational to all areas as stated within the scope. This includes lamps, luminaires

and accessories as specified, and control systems fully commissioned by the Manufacturer and Contractor.

In the event of **AEC** visiting the site for the meetings defined in Stage V of the appointment and being unable to complete their work, additional charges will be made in accordance with Stage III of this appointment.

**AEC** will oversee the scene setting of all lighting control systems with the dimming engineer from the manufacturer of the systems. The dimming engineer will charge a separate fee which will be quoted in advance alongside the costs for the supply of the equipment. As a guide this will be at a day rate. In addition, required travel and accommodation expenses will be charged for.

### **Optional Services**

The following items are not included in this proposal, but are listed as optional extras and are subsequent to an additional cost upon receipt of a written request:

- Special renderings, computer generated photo-realistic images, digital slide, animated images and other visual presentation elements.
- Daylight studies.
- Design, supervision of construction, testing and evaluation of mock-ups and / or models.
- Review of final Contract or Tender Documents as prepared by the architectural team involved, and related to the lighting system.
- Assistance in evaluating returned tenders.
- Summary of illumination levels.
- Design development of custom-designed luminaires and negotiating or obtaining of competitive prices (by tender).
- Review of proposed substitute luminaires, as selected by others, for compliance with the specification.
- Shop and field inspections - other than site visits - as authorised in writing by the client.
- Final lamp schedule for the building maintenance staff (installed drawings and relevant information to be provided by the Services Architect or Contractor).