

Westminster Abbey Chair Product Design Specification

Introduction

Design a lounge chair inspired by Westminster Abbey and the Coronation chair. That can fit a Home, Hotel, or office lobby area and Westminster Abbey itself.

Basic Operation

A person of average height should be able to sit for up to 30 minutes without getting pins and needs in their legs, the back should be supported throughout the sitting experience.

Scope

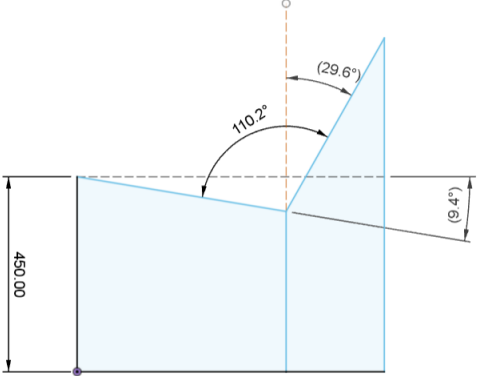
This chair should be batch produceable, the target market being hotels and people's homes who earn +£40,000. The upper end of the market is with people who have **£3,000 to £6,000** to spend on a chair. This chair is **inspired by Westminster Abbey and the coronation** chair and should contain architectural and related symbolism from the Abbey and the chair, using mid-century modern design. Research hand in **6/01/25**, the next key date important date final product prototype completion **18/04/25** for on set photoshoot **21/04/25**. Final handing **12/05/25**.

Functional Requirements

To sit 1 person

Construction

Key Consideration	Requirements	Issues/Challenges
Materials and process	<i>Stainless Steel, Mild-Steel, Welding, Bending, Fabricating, Forging, Electroplating, Upholstery, Fomes, Leathers, Eucalyptus Oil Printing, Plywood Seat Bases, Upholstery Timber (Poplar)</i>	
Dimensions	<i>Overall Average</i> • <i>Seat width: 750mm to 800mm</i> • <i>Seat depth 480mm to 470mm</i> • <i>Cushion height: 450mm to 460mm</i> • <i>Chair height: 750mm to 780mm</i> • <i>Base angel seat angel from 90° (see figure 1)</i>	

	 <i>Figure 1: Chair Angles</i>	
Quantity	<i>Bach production of 10</i>	
Lifespan/Reliability	Should last a lifetime 25 years and should be flexible or refinished (excluding fabric). Shopping warranty of 5 years inline with competitors.	
Maintenance	<i>Depending on use and the fabric's life span should be able to take it apart and reupholster it. If electroplated should be re-electroplatable.</i>	

Experience

Key Consideration	Requirements	Issues/Challenges
Aesthetics	<i>Should be a slightly mid-century modern design mixed with components from Westminster Abbey and the coronation chair.</i> <i>Example Westminster Abbey:</i> • pointed arches • vaulted nave/ceiling • rose windows • flying buttress • sculptural mouldings • colonnades/colonettes • pinnacles and spires • quatrefoils • colours • patterns • textures <i>Example Coronation Chair</i> • quatrefoils • wooden mouldings • past paintings and gilding	

	• <i>sculptural carvings</i> • <i>patterns</i>	
Ergonomics	<i>Should be ergonomically suited to fit most adults from 5ft to 6ft 5inch.</i>	

Safety

Key Consideration	Requirements	Issues/Challenges
Safety considerations	<i>Weight, corners, stability</i>	
Safety standards	Furniture and Furnishings (Fire Safety) Regulations 1988/1989, 1993 and 2010	
Testing	Comply with British standards BS EN 1728:2012 Furniture. Seating. Test methods for the determination of strength and durability.	

Transport

Key Consideration	Requirements	Issues/Challenges
Packaging	A protective box made from sheet material and packaging material that can be reused	
Shipping	<i>Depending on price should be delivered by the company and the packaging should be removed and taken away to be reused. As well as a final clean on the chair so it looks its best for the customer.</i>	

Environmental

Key Consideration	Requirements	Issues/Challenges
Recycling	<i>Materials should be of quality to last a long time and be recyclable and repairable.</i>	
Disposal	Materials should be separated into there key components.	