

Façade design life datasheet

Assessment of reference service life and performance classification in accordance with BS7543 to provide assistance in estimating building service life planning to BS15686-1.

				Design Life				Effects of Failure									
Ref	erence		Service Life	1	2	3	4	Α	В	С	D	E	F	G	Н		
Façade Smarts extruded aluminium profiles Smart ironmongery, locks and handles			Indefinite 25 Years			V							V	V			
Surface Finishes Smarts Anodised Finish Smart powder coating adhesion Smart Powder coating finish gloss retention and colour fastness			60 Years 60 Years 40 Years		_ _ _		☑				☑						
Weathering Smart Sealants Smarts glazing gaskets			25 Years 40 Years			5						V					
Infills Insulating glass units		25 Years		Ø				Ø		Ø			Ø				
Design Life BS 7543:2015 Table 1																	
1	Short Term	dilv re	pnlaci	eahle													
2	Replaceable	Shorter life than the building and readily replaceable. Shorter life than the building and replacement can be envisaged at design stage.															
3	Maintainable	Last with periodic treatment, for the life of the building.															
4	Lifelong	Lasts for the life of the building															
Effects of failure BS 7543:2015 Table 2																	
Α	Danger to life	Costly because repeated															
В	Risk of injury F			Interruption to building use													
С	Danger to health G			Security Compromised													
D	Costly Repair	ostly Repair H N					No exceptional problems										

Reference

Service Life to BS7543 reference service life. Based on known life expectancy for a reference set of particular 'in-use' conditions collated from publically available sources. Service life expectancy is based on correct maintenance and specific environment conditions. The reference environment is external class C3 (urban industrial, coastal low salinity) and internal environment Class C1 (normal heated). Note life expectancy of IGU does not include breakages due to nickle sulphide inclusions. This document is for guidance on expectations and does not constitute any form of guarantee or warranty but does provide valuable information for service life planning.

BS 7543:2015. Guide to durability of buildings and building elements, products and components.

ISO 15686-1 Buildings and constructed assets -- Service life planning -- Part 1: General principles and framework

EN ISO 12944-2 Paints and varnishes. Corrosion protection of steel structures by protective paint systems.

Classification of environments