

Final Report
Working Group 1 - Engineers

Product Stage				Construction Progress Stage			Use Stage							End of Life Stage	Benefits and loads beyond the system boundaries		
A1 - Raw Material Supply A2 - Transport A3 - Manufacturing				A4 - Transport from the gate to the site A5 - Assembly			B1 - Use B2 - Maintenance B3 - Repair B4 - Replacement B5 - Refurbishment B6 - Operational energy use B7 - Operational water use							C1 - Deconstruction C2 - Transport C3 - Waste processing C4 - Disposal	D - Reuse, recovery, recycling potential		
RIBA 0 Strategic Definition	RIBA 1 Preparation and Brief	RIBA 2 Concept Design	RIBA 3 Developed Design	RIBA 4 Technical Design	RIBA 5 Construction	RIBA 6 Handover & Closeout	RIBA 7 In Use	Retrofit									
								RIBA 0 Strategic Definition	RIBA 1 Preparation and Brief	RIBA 2 Concept Design	RIBA 3 Developed Design	RIBA 4 Technical Design	RIBA 5 Construction	RIBA 6 Handover & Closeout	RIBA 7 In Use		

WG 1 - Engineers													
Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action
Structural Eng (CEng) (Design Strategy)	Civil (CEng)	Lead Engineer (CEng) (overview)	Civil (CEng)	Lead Engineer (CEng) (overview)	Civil (CEng)	Lead Engineer (CEng) (overview)	Structural (CEng)	Lead Engineer (CEng) (co-ordination)	Structural (CEng)	Lead Engineer (CEng) (co-ordination)	Structural (CEng)	Lead Engineer (CEng) (co-ordination)	Warranty period for specialist contractors (Eng/EngTech (WG2))
	Structural (CEng)	Lead Engineer (CEng) (overview)	Structural (CEng)	Lead Engineer (CEng) (overview)	Structural (CEng)	Lead Engineer (CEng) (overview)	M&E (CEng)	Lead Engineer (CEng) (co-ordination)	M&E (CEng)	Lead Engineer (CEng) (co-ordination)	M&E (CEng)	Lead Engineer (CEng) (co-ordination)	Eng - site supervision (WG9)
	M&E (CEng)	Lead Engineer (CEng) (overview)	M&E (CEng)	Lead Engineer (CEng) (overview)	M&E (CEng)	Lead Engineer (CEng) (overview)	Fire (CEng)	Lead Engineer (CEng) (co-ordination)	Fire (CEng)	Lead Engineer (CEng) (co-ordination)	Fire (CEng)	Lead Engineer (CEng) (co-ordination)	Eng - site supervision (WG9)
	Fire (CEng)	Lead Engineer (CEng) (overview)	Fire (CEng)	Lead Engineer (CEng) (overview)	Fire (CEng)	Lead Engineer (CEng) (overview)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))
WG 2 - Installers													
		EngTech		EngTech		EngTech		EngTech		EngTech		EngTech	
WG 3 - Fire Engineers													
WG 4 - Fire Risk Assessors													
WG 5 - Fire Safety Enforcement Officers													
WG 6 - Building Control / Standards Inspectors													
WG 7 - Building Designers / Architects													
WG 8 - Building Safety Coordinators													
WG 9 - Site Supervisors													
WG 10 - Project Managers													
Team, Services				WG 11 - Procurement				Products, equipment					

WG 1 - Engineers													
Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action	Actor	Action
M&E Engineer (CEng) (Design Strategy)	M&E Engineer (CEng) (Engineered solutions)	Lead Engineer (CEng) (overview)	M&E Engineer (CEng) (Engineered solutions)	Lead Engineer (CEng) (overview)	M&E Engineer (CEng) (Engineered solutions)	Lead Engineer (CEng) (overview)	Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (co-ordination)	Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (co-ordination)	Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (co-ordination)	Warranty period for specialist contractors (Eng/EngTech)
	Possible hand-off to Structural Engineer (CEng) Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (overview)	Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (overview)	Fire Engineer (CEng) (Specialist advice)	Lead Engineer (CEng) (overview)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Warranty period for specialist contractors (Eng/EngTech)
	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Warranty period for specialist contractors (Eng/EngTech)
	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Eng - site supervision (WG9)	Lead Engineer (CEng) (overview)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Specialist contractors (Eng/EngTech (WG2))	Lead Engineer (CEng) (co-ordination)	Warranty period for specialist contractors (Eng/EngTech)
WG 2 - Installers													
		EngTech		EngTech		EngTech		EngTech		EngTech		EngTech	
WG 3 - Fire Engineers													
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WG 8 - Building Safety Coordinators													
WG 9 - Site Supervisors													
WG 10 - Project Managers													
Team, Services				WG 11 - Procurement				Products, equipment					
WG 12 - Products													

Engineers are likely to have involvement with products, either design, manufacture or use of - how would you like to represent this.