



Programme Area: Buildings

Project: Building Supply Chain for Mass Refurbishment of Houses

Title: Appendix B – Installation Programme 1965-1980 Bungalow

Abstract:

Please note this report was produced in 2011/2012 and its contents may be out of date. This document is an appendix of Deliverable 4.3 – Target Supply Chain Scenarios.

Context:

This project looked at designing a supply chain solution to improve the energy efficiency of the vast majority of the 26 million UK homes which will still be in use by 2050. It looked to identify ways in which the refurbishment and retrofitting of existing residential properties can be accelerated by industrialising the processes of design, supply and implementation, while stimulating demand from householders by exploiting additional opportunities that come with extensive building refurbishment. The project developed a top-to-bottom process, using a method of analysing the most cost-effective package of measures suitable for a particular property, through to how these will be installed with the minimum disruption to the householder. This includes identifying the skills required of the people on the ground as well as the optimum material distribution networks to supply them with exactly what is required and when.

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	Day 1														Day 2																																															
Number of men per Hour	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	3.5	2.5	3.5	3.5	4	3.5	2.5																																								
	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	5	2	2	3	3	4	4	3	4	4	3	4	4	1																															
EWI																																																														
Erect Scaffold	█																																																													
Remove external fixtures	█																																																													
Extend boiler flue				█		█																																																								
Extend Waste pipes				█		█																																																								
Alter Drainage				█		█																																																								
Fix insulation				█		█																																																								
Render base coat				█		█																																																								
render top coat				█		█																																																								
Re fix external fixtures				█		█																																																								
Dismantle scaffold																															█				█																											
Labourer	2	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2				1	1	1	1	1	1	1	1	1																																
Electrician						1		1											1		1																																									
Carpenter						1		1											1		1																																									
Plumber/heating engineer						2		2	2	2																																																				
Decorator																																																														
Roofer																																																														
Tiler																																																														
Scaffolder	2	2	2	2															1		1	1	1	1	1	1	1	1	1	1	1																															
Plasterer						2		2	2	2	2	2	2	2	2	2	2	2																																												
Replace Boiler for A rated system																																																														
Isolate electrics																																																														
Drain down system and remove boiler and flue																															█				█																											
Fix new boiler, flue and pipe work																															█				█																											
re connect electrics																																																														
Commission system and fit controls																																																														
Labourer																																																														
Electrician																																																														
Carpenter																																																														
Plumber/heating engineer																																		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
Decorator																																																														
Roofer																																																														
Tiler																																																														
Plasterer																																																														
Roof Works/Draughtproofing Doors/Controls																																																														
Install new tile vents																															█																															
Top up loft insulation																															█																															
Draughtproofing doors																															█																															
Insulate Hot water tank																															█																															
Insulate Loft Hatch																															█																															
Install New Extract Fans																															█																															
Labourer																															1		1											1		1	1	1														
Electrician																															1		1											1		1																
Carpenter																															2																															
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