



BUTLER GALLERY KILKENNY

**DESIGN RISK ASSESSMENTS FOR
INCLUSION IN HEALTH AND SAFETY PLAN**

PROJECT NO: M821

AUGUST 2010

Designer's non exhaustive Assessment of Safety during Design Construction and Maintenance taking account of the Principles of Prevention			
Company: OCSC		Designer: IC	Date: August 2010
Project: Butler Gallery (M821)	Checker: PH	Sheet No: 1	Revision No:
Design Stage:			
Activity	Key Hazards Identified	Decisions/Action	
1.0 Site Setup			
Site access & egress	Contact with moving vehicles & plant Unauthorised access to the site. Slips & trips Falls from height Electricity/temporary service Fire or other emergency	Contractor to note location of existing underground services and avoid work in close proximity where possible. Contractor to take into account existing cellar to existing building whilst setting up site compound and storing materials on site Method statement required for erection, operation and dismantling of crane for main works. Contractor to address risks associated with crane operating adjacent public spaces with particular attention to be paid to adjoining Library and private residences.	

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Design Stage:			
Activity	Key Hazards Identified	Decisions/Action	
2.0 Excavation/earthworks			
2.1 Substructure and drainage (earth moving, foundation trenches, , below ground drainage,)	Instability of excavation Falling of persons/vehicles into excavation Live services Ground contamination/gas Confined spaces Collapse of structure Vibration Instability of adjacent structures	Contractor to refer to HSA document 'A Guide to Safety in Excavations'. Site investigation report to be reviewed by contractor prior to works commencing on site. All necessary vibration/displacement monitoring equipment to be installed as approved by designers on existing structures. Contractor to note that piled foundations are required. Contractor to note requirement for safe access into excavation. Contractor to note existing Evans Home and boundary wall to be protected during all works.	

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Activity	Key Hazards Identified	Decisions/Action	
3.0 Erecting/Constructing structures			
Steelwork	Collapse/temporary instability	Contractor to allow for early installation of stairs.	
Precast slabs	Collapse construction loading.	Method statement required for erection, operation and dismantling of craneage for main works.	
Masonry	Falls from height.	Contractor is responsible for propping or temporary support of the building to ensure stability during the erection process.	
Brickwork	Handling major components.	Contractor to note material specification as noted on OCSC drawings. Any material specification not noted or uncertainty with same to be noted to OCSC for clarification.	
In-situ concrete	Failure of lifting equipment.	Contractor to note that chemical anchors are not to be used to support floors of any description. Through bolts/cast-in bolts or halfen channels to be used in accordance with OCSC approved detail.	
	Use of hand tools - hand/arm vibration - eye injury.		
	Impact with moving vehicles/plant.		
	Lifting		
	Handling of structural materials		

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Design Stage:			
Activity	Key Hazards Identified	Decisions/Action	
4.0 Installation of Engineering Services			
4.1 Foul and Surface Drainage	Collapse of excavation Confined spaces Falls from height. Manual handling Weils Disease Cuts and abrasions.	Contractor to refer to HSA document 'A Guide to Safety in Excavations'.	
5.0			
Cladding and Glazing	Temporary instability Construction loadings Falls from height Use of power tools/HAV's. Noise Manual handling	Contractor to note weight of units. Refer to Architects specification	

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Activity	Key Hazards Identified	Decisions/Action	
6.0			
Handling hazardous materials/ substances / components / finishes/ adhesives	Respiratory injuries. Carcinogenic diseases Manual handling Fall from a height Skin diseases Cuts and abrasions Dust Environmental	Contractor to note MSDS for adhesives and paints specified.	

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Activity	Key Hazards Identified	Decisions/Action	
7.0			
Welding structural steelwork	Dust	Any on-site cold galvanising to be noted to OCSC	
Galvanised steel work	Live services	OCSC to be notified of any on-site welding. Adequate testing required for all site weld. Shop welding preferred where at all feasible.	
	Fire/explosion		
	Noise/vibration		
	Inhalation of toxic fumes		
	Fall from a height		
	Inappropriate equipment		
8.0			
Handling of heavy prefabricated structural components	Manual handling and musculoskeletal injuries.	All temporary propping specified by Temporary Works Engineer to be noted by Contractor.	
	Fall from a height.	Contractor to note weight of structures to allow for safe installation.	
Structural steel members	Cuts and abrasions.	Contractor to note long span trusses and beams to be erected on site.	
	Falling objects	Lifting in safe conditions (i.e ground) and under safe conditions (i.e weather)	
	Clashes of operation/trades.	Method statement required for erection, operation and dismantling of craneage for main works.	
	Failure of lifting equipment.		
	Contact with overhead services		
	Collapse of structure during erection.		
9.0			
Working space	Falls from a height	Edge protection to be put in place as soon as possible	
Working platforms	Manual handling and musculoskeletal injuries	Contractor to allow for early installation of stairs.	
	Cuts and abrasions	Contractor to demonstrate, in the form of method statement, that floor slabs are capable of supporting loads resulting from temporary storage, craneage etc. Method statement to be forwarded to OCSC for comment.	
	Fire		
	Falls from unprotected edges		
	Collapse of platform		
	Materials/objects falling from height.	Contractor to ensure that concrete on First level floor has reached an adequate strength before being used as a working platform.	

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10.0			
Future cleaning/ maintenance repair/ alteration/ refurbishment/ demolition	<ul style="list-style-type: none"> Falls from a height. Falls through fragile materials. Live services Manual handling Hazardous materials/substances Uncontrolled collapse Fire Electric shock Crushing Fall from a height. 	<p>Maintenance of main glazed façade to be provided from cradle at roof level.</p> <p>Other anticipated future cleaning methods to be discussed with the Architect. Allowance for same with regard to permanent structure to be addressed by OCSC.</p>	