

# GCSE 3D Design

Creative personal response, design and innovation



## Container housing

# 3D Design- Contextual design brief.

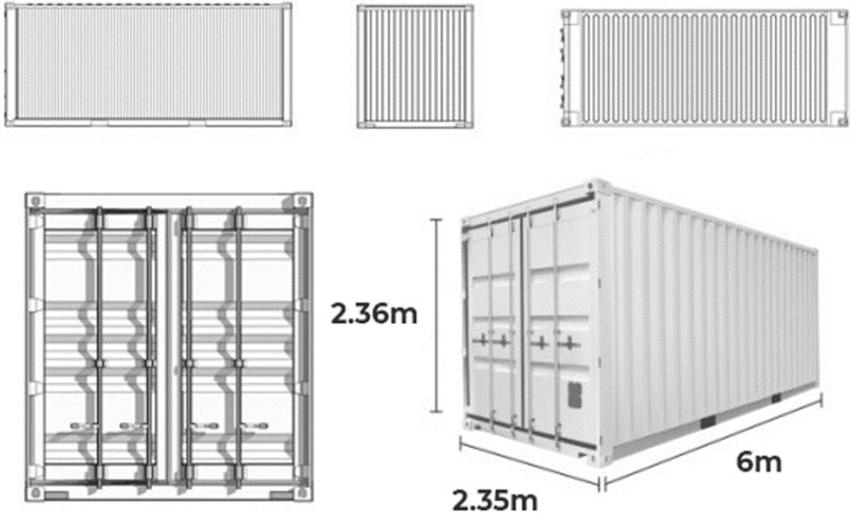
Most towns and cities in the UK have what is known as ‘**brown field**’ sites. These areas of ground in urban settings will be waste land that is the result of urban demolition . These sites are under constant review for development and one of the priorities for urban space is affordable housing.

Your Task is to design and repurpose **shipping containers** from a waste commercial product into modular affordable housing for UK urban landscape areas. The contextual brief allows you the use of an initial **three containers** to repurpose for housing development. Below are some bullet points to consider

- You can develop the containers in any way as long as you keep their structural integrity.
- Other materials can be introduced including timber, glass , metal, plastic or composite material. These can be used for aesthetic reasons but also be considered for weatherproofing and structural strength and stability.
- Insulation and heat loss should be considered for a safe, warm and comfortable living space.
- Interior finishes and layout can be considered and the way in which the space is divided and used should be an important design consideration.
- We will look to draw inspiration from design/architectural styles from past and present and two alternative designers will be introduced to help with creativity.
- The design should be innovative and original in the aesthetic appearance.
- **You will present your work and concept proposals through both design portfolio and prototype 3D models/ model. You will use both card, wood and Styrofoam in modelling .**

## 3D Design – Details relating to your brief

An example of **one container** and the dimensions are displayed.



These images show how some designers have already repurposed containers to make affordable homes.

These are only two recent examples. Its up to you to create an interesting and innovative living space. Remember you can use up to 3 containers for your prototype dwelling.



# 3D Design – Your Assessment and objectives

Your project work must cover **4 objectives**. You need to have answers for each objective displayed in your project folder work. You should be aware by now on how to formulate a design process from brief to research, design sections, modelling and making with annotation, analysis and evaluation throughout each stage. **The 4 Assessment Objectives (AO's) are below. Read through them carefully and we will discuss these objectives in detail throughout your project and coursework.**

## AO 1

Develop ideas through investigations, demonstrating critical understanding of sources.

## AO 2

Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.

## AO 3

Record ideas, observations and insights relevant to intentions as work progresses.

## AO 4

Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

- **Do not over think** the 4 objectives. As we progress through your project with relevant sections needed to complete a design process, the 4 assessment objectives should be covered. Your teacher will guide you through this process so you display parts of the project in the right way.

# Your 3D Design inspirations..... two designers

## Ludwig Mies van der Rohe

**Mies van der Rohe** was a German-born American architect whose rectilinear forms, crafted in elegant simplicity, epitomized the International Style of architecture. He was a founder member of the Bauhaus movement of designers and architects. Some of his iconic design examples are indicated below;



## Daniel Libeskind

Libeskind is Polish American architect known for introducing complex ideas and emotions into his designs. Libeskind received international attention after he won the competition to be the master plan architect for the reconstruction of the World Trade Centre site in New York. Libeskind founded Studio Daniel Libeskind in 1989. Some of his iconic design examples are indicated below;



## 3D Design – Typical location for your housing design



A **brown field** development site is an area where regeneration may occur after older buildings have been demolished. These sites are usually urban sites that would benefit from redevelopment.

Typical examples of these urban landscapes would be waste ground, soil, rubble, disused buildings, and scrubland. The benefits of reusing these sites is that you can improve urban areas and save new land we call **green belt**, from development.



**Urban development** has been done successfully over the years with old industrial areas changed into new innovative housing, office and retail space.



Our container house project takes those principals of reusing resources even further, using old waste containers from shipping and transport. These containers can then be reused for simple and innovative dwellings.

Your task is to take this simple waste product and create an creative dwelling which fits an urban site with functional and aesthetically pleasing form and structure. **The key to this project is to study your influences and keep an open mind to design.**

