## **Elements of Construction**

## Крепежни Елементи

Architects must understand the physical limitations of their medium. Without an understanding of **construction**, architects cannot understand a building's possibilities and limitations. There are several features that all buildings have in common. Among them are **foundations**, **roofs**, walls, and **openings**.

Every building begins with a solid foundation.

Most buildings have either a slab-on-grade or pile-driven foundation. From here, the structure of the building begins to take shape. There are two main types of building structure. In solid construction, the walls support the building. In framework construction, a light framework holds the building together. This framework may be made of wood, metal, or even concrete.

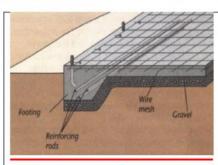
Architects must know the difference between different types of walls. Load-bearing walls are integral to the structures of the building. Architects must plan in advance for openings like doors and windows. Non-load-bearing walls provide much greater design flexibility. Curtain walls are exterior non-load bearing walls. Curtain walls allow an immense range of creative freedom.

It's very important for the architects to know and understand the elements of construction. Every single building has something in common. Each has foundations (основи), walls(стени), roofs(покриви), beams(греди), openings(отвори за врати)

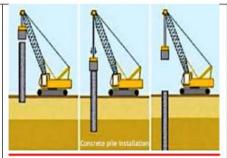
Solid construction (масивното строителство) can use slab-on-grade foundation (плочи) or pile-driven foundations (пилотна основа)

Framework construction (немасивно строителство) relies on a light framework (рамка).

Architects must make a difference between a load-bearing wall (носеща стена) and curtain walls (интериорни стени), also known as non-load bearing walls



Slab-on-grade foundation



pile-driven foundations



## Ex.1

Match the words and phrases with the definitions (A-I).

oundation solid construction framewo	ork construction construction roof	structure opening framewo	rksuppo
A to bear weight or prevent some	thing from collapsing		
<b>B</b> the base of a building that touch	nes the ground		
C a skeleton-like internal structur	al system		
D a basic system that holds somet	hing together		
E a building process in which the	walls support weight		
F the external protective structure	at the top of a building		
G a building process in which a sl	keleton-like structure supports weight		
H the process of assembling a bui	lding		
I an empty space that people or th	ings can move through		
X2 Read the sentence pairs. Choo	ose which phrase best fits ea	ch blank.	
		ch blank. le-driven foundation	***************************************
lead the sentence pairs. Choo		le-driven foundation	
	slab-on-grade pil	le-driven foundation	
A) A	is built into the ground is built on top of the g	le-driven foundation	
A) A	is built into the ground is built on top of the gload-bearing w	d. ground.	



## Ex.3 Listening

Was Listen to a conversation between an architect and a contractor. Mark the following statements as True or False.

1 The woman made an error on a building plan.

True False

2 The woman believes that a load-bearing wall will not be strong enough.

True False

3 The man will check with the structural engineer about the changes.

True False

