Heating insulation

&
water proofing work

Questions that you have to ask for any kind of technology:

1) What is the technology that we are talking about?
2) What is the previous technology and the previous activity?
3) What are the layers of the structure that it belongs to?
4) What is the structure that it lays on, or fixed to or contacted anyway?

   4a) What are the attributes of these structures and material?
   4v) How can we check these?

5) What is the details of the technology that we are talking about? / what activities does it contain?

   a) Can you divide it to parts, to activities?
   b) What are the materials?
   c) What is the volume of each material?
   d) How can you transport, deliver and move the material to and on the site?
   e) What kind of tools and equipments do you need?
   f) How many workers and other resource do you need for each activity?
   g) How long does each activity last and what is their sequence?
   h) In what weather conditions are you allowed to do the activites?
   i) What kind of infrastructure do you need for the constr?

THE TECHNOLOGY OF ANY KIND OF CONSTRUCTION WORK MUST BE READABLE FROM THE PLANS!

6) How can you check the quality of the finalized product?

WATER PROOFING MATERIALS

material	bitumen	PVC	rubber
what is it for			
against of ground water			
operational water			
wheather (rain, snow)			
supporting material	nothing or fiberglass or fiber steel		
covering material on the material	depends on the cicumstances (UV)		
underlayer material	Concrete, heating insulation, etc		
fixing the material:			
mechanical			
stuck / glued			
flame melting			
welding			
on the edges	Mechanical by a belt of zinc (not the same kind for all!)		
the gully	Different kind of material for each!		
min slopes	2-4%	1-2%	0-1%

underlay is concrete or heating insulation

WHAT IS IT?

WATER PROOFING MATERIALS

material	bitumen	PVC	rubber
Stripping, shape of a pack of the material	D~35 cm, H~110cm	D~35 cm, H~200cm	X~150 cm,Y~150cm, Z~100cm
			
	ROLL ~35 kg	ROLL ~50 kg	MEMBRANE ~350 kg
	 BUCKET ~25 kg		

BEFORE START THE CONSTRUCTION OF THE WATER PROOFING

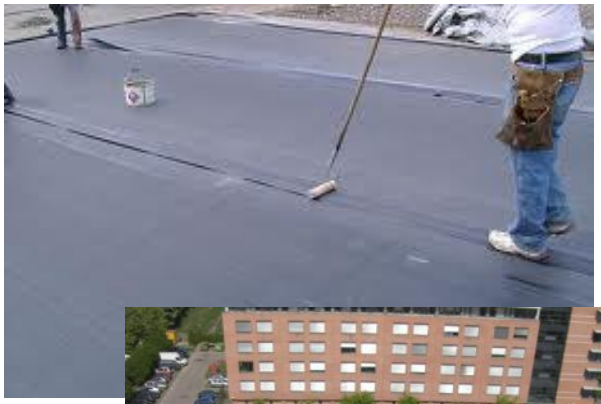
CHECK THE STRUCTURE

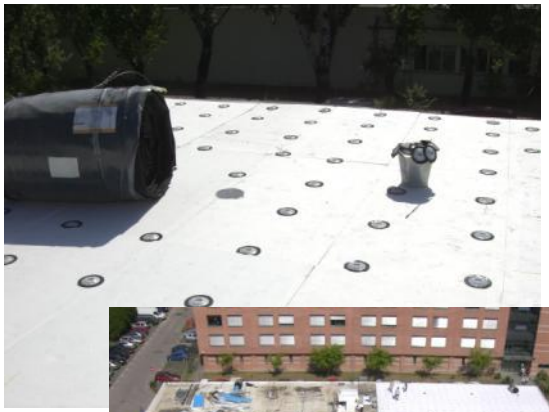
CONTROLL THE UNDER LAYER (dimensions, slopes, etc)

CHECK THE SITE (infrastructure, possibilities of the site)

CHECK THE TRANSPORTATION POSSIBILITIES

TOOLS AND EQUIPMENT FOR EPDM (rubber) MEMBRANE





TOOLS AND EQUIPMENT FOR BITUMEN

TOOLS AND EQUIPMENT FOR PVC

HEALTH AND SAFETY CLOTHES






WEATHER CONDITIONS

WIND? **SNOW?** **RAIN?** **TEMPERATURE?** **SUN?**

INFRASTRUCTURES?

CONTROL THE FINALIZED STRUCTURE!!!

HEATING INSULATION

START WITH THE SAME QUESTIONS!!!

what is it for?
Function?

1) Heating insulation?
2) Under layer?
3) Separates layer?
4) Creates slopes?
5) Carrying load?

HEATING INSULATION MATERIALS

EPS **XPS** **ROCK WOOL** **GLASS WOOL** **CELLULOSE**

HEATING INSULATION MATERIALS

	EPS XPS	ROCK WOOL GLASS WOOL	CELLULOSE
	Boards, sheets Rolls if <2cm thick	**Boards** **Rolls**	**Bulky, spread**
dimensions	X=50cm Y=100cm Z=2;5;8;10; 12cm 15-20 kg/m3	X=50cm Y=100cm (up to 500cm in rolls) Z=2;5;8;10; 12cm 30-40 kg/m3	X=50cm Y=100cm Z=30cm 14,5 kg/package 35-40 kg/m3
covering surface	Nothing Some kind of boarding (wall board, cut wood) Its own extruded preassured material		Nothing
underlay	Concrete, plaster, timber boarding, gypsum boarding, etc		
	+ water proofing		

HEATING INSULATION MATERIALS

	EPS	XPS	ROCK WOOL	GLASS WOOL	CELLULOSE
Fixing mechanical	☺	☺	☺ Not in roll	☺ Not in roll	– WHAT IS IT?
stuck/glued	☺	☺	☺ Not in roll	☺ Not in roll	– WHAT IS IT?
nothing	☺	☺	☺	☺	☺

Need protection?

WEATHER CONDITIONS

WIND? **SNOW?** **RAIN?** **TEMPERATURE?** **SUN?**

TOOLS AND EQUIPMENT

HEATING INSULATION MATERIALS

	EPS	XPS	ROCK WOOL	GLASS WOOL	CELLULOSE
Need protection?			**WEATHER CONDITIONS** (indoor, outdoor?...)		







DRYVIT SYSTEM:

CHECK THE FINALIZED STRUCTURE!

Thank you for listening!