

Structure solution:

system consist of predominantly parameter reinforced concrete wall with internal column and beam as frame in the basement but upper structure is predominantly consist of RC column and beams two small Reinforced concrete wall are used due to structure stiffness and stability against lateral load one way RC slab are used

Material solution:

Vertical structure:

Monolithic RC Walls tl.400mm, C30/35 ,
 RC Monolithic Columns 400mm, C³⁰/₃₅
 RC beam h=500mm

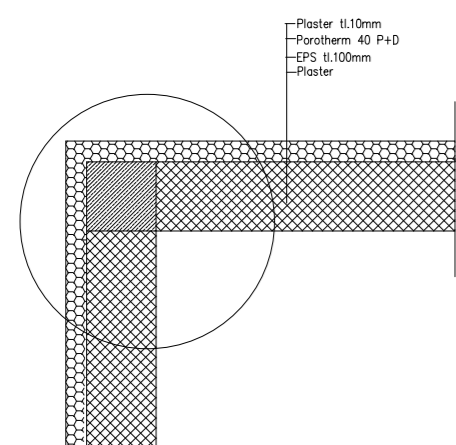
Horizontal Structure:

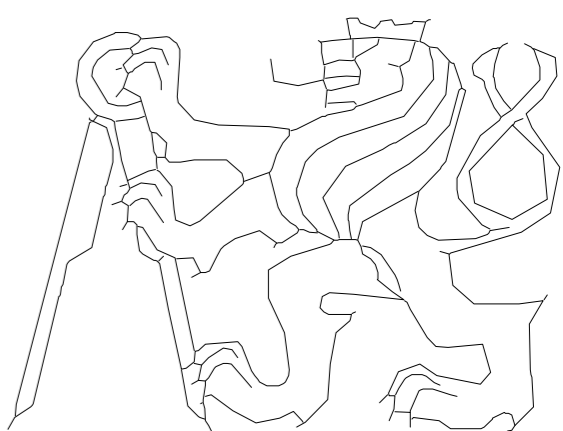
One way monolithic RC slab, C30/35

Envelope composition:

internal Plaster tl.10mm ($\lambda=0.80$ w/mk)
 Porotherm 40 P+D (**R=3.23**)
 expended polystyrene ($\lambda=0.38$)

$$U=1/R_i+R+R_e = 1/0.13+3.7+0.04=0.26 \text{ w/m}^2\text{K}$$



Subject:	Department:	student name:							
Thesis	Building structures	Hikmatullah Salarziy							
Year	Supervisor								
4.	Doc.Ing.Tomas cejka, ph.D								
<u>structural system variant B</u> <u>typical floor</u>			<table border="1"> <tr> <td>FORMÁT</td> <td>A2</td> </tr> <tr> <td>MĚŘÍTKO</td> <td>1:50</td> </tr> <tr> <td>Č. VÝKR.</td> <td>1</td> </tr> </table>	FORMÁT	A2	MĚŘÍTKO	1:50	Č. VÝKR.	1
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