Question 1:

itest loss through a composite wall?

Asinhigh and Similar wide wall consist of tong 32 cm, 22 cm cross section horizontal Briks (k=0.72 mm oc) separated by 3cm thick ploster layers

(K= 122 w/mc).

indoor and the outdoor temperatures 20° and -loc and the convection heat transfer coefficients on the inner and the outer sides are heat transfer and disregarding radiation determine the late of heat transfer through the wall. There are also 2cm thick plaster layers on each side of the brike and a

answer: K4CONV 2 Reconve Repluster up of down = RBKK RR Fram + Releft or right 16 Rwall total (1-dnew) = 014 / + 4,615 / + 0,3636 / + 1,2294 / + 43636 / + 0,7 % Ktotal - parellel = h, XA, Limen 下8 he X Ay-dm Kfaam X -Rpup AB(1-dimen) Kp A1- dinney Ro X Ricany + Replaster left + LP.Lorr 0,5156 70 7 m20 APG-dimens Apriga or lass (1 - dimen) 8 Rwall totall 01026 W/mc × 11 0103 m 0172 /2 (01015+0122+01015) X Ten 1,9394 5, Rp. down 0,32 (e1015+ 422 + 01015) m x 1m × (a1015 + 0122 + 0,015) m x 1m 0/22 who 96,97 0/32 olcom X In 010703 0/22 Kfoam + 7,7816 % Revisiter 1917 + Recons × 0,495 0/015 402 0102m (0,015+0,22+0,015)×1 90 Rotal Pareller + 2,02 X 1m 0/0703 96,97 014 % - 0,3636 196,97 4,615 30.50 200

E Rwall, total 20 - (-10) 7,7816 = 3,855 5

comments: In the last question the thickness of wall was 16cm

and then the Ristal was around 6,81 c/w . In conclusion

with increasing the thickness, Robal is increased and the

we doubted the thickness of brick in a composit wall but heat transfer is decreased. Also, I should mentioned that

the thermal Kessistance doesnot significantly increase and

the late of heat transfering does not decrease significantly.

					answer?		Auestian 1:	
Inside Surface	GYPSKM BOOKE (13mm) 01079	wood Studs (90 mm)	Utethane Rigit Found (90) No 0,98 x 90,765 = 3,528	Polywood (13mm)	Wood Bevel (13mmxom) or 14	outside air		
0/12	0/079	0/63	No	0,77	0/14	0103	pom	
0,72	01079	No	0,98 × 90,765 = 3,528	0,11	0,74	0/03	Insulation	

with woods (0103+0114+0171 +0163+01079+012]= 1,109 mg

Ruith insulation = (0,03+0,14+0,11+3,528+0,079+0,12)=4,007 mg