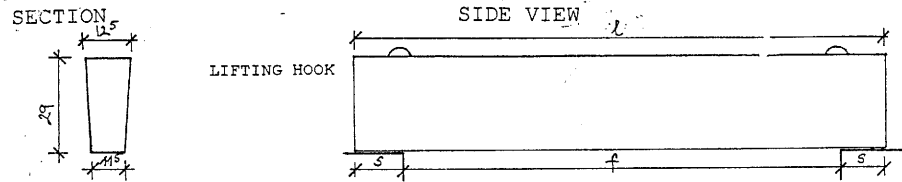


PRACTICAL NOTES
of

**PREFABRICATED LINTELS, BEAMS, FILLER BLOCKS
and FLOOR CONSTRUCTIONS**

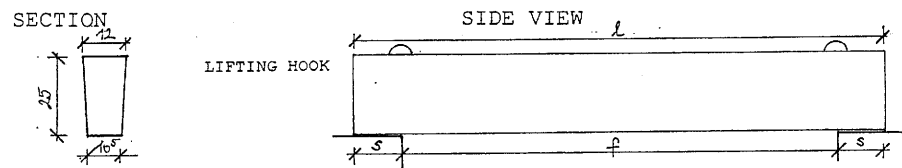
"AD", "A" TYPE PREFABRICATED R.C. LINTELS

THE "AD" TYPE PREFABRICATED R.C. LINTEL CAN BE APPLIED IN BRICK AND BLOCK WALLS



TYPE	DIMENSIONS				MOMENT BEARING CAPACITY /M _h /
	SPAN /f/	TOTAL LENGTH /l/	BEARING DISTANCE /s/	MASS	
		cm		/kg/	/kNm/
AD 9	90	119	14.5	102	8.60
AD 15	150	179	14.5	155	8.60
AD 21	210	239	14.5	208	15.90
AD 27	270	299	14.5	260	24.60
AD 30	300	359	29.5	312	26.30
AD 36	360	419	29.5	365	32.50
AD 42	420	479	29.5	418	44.50

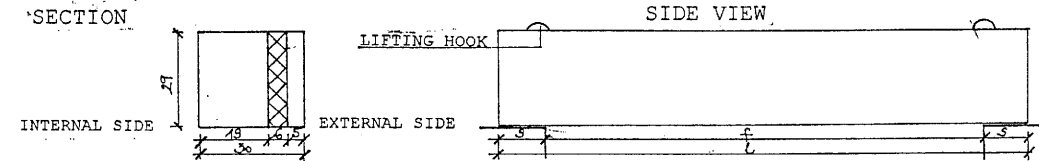
THE "A" TYPE PREFABRICATED R.C. LINTEL CAN BE APPLIED IN BRICK AND BLOCK WALLS /ONLY IN SPANNING WITHOUT LATTICE-BLIND/



No	TYPE	SPAN /f/ /cm/	TOTAL LENGTH /l/ /cm/	BEARING DISTANCE /s/ /cm/	MASS /kg/	MOMENT BEARING CAPACITY /M _H / /kNm/
	A 12	120	150	15	105	8.90
	A 16	160	190	15	132	11.00
	A 20	200	230	15	162	13.20
	A 24	240	280	20	198	18.10
	A 28	280	320	20	225	23.20
	A 32	320	360	20	252	29.40

"HA" TYPE INSULATED PREFABRICATED LINTEL AND "AI" TYPE ARCH FORM LINTEL

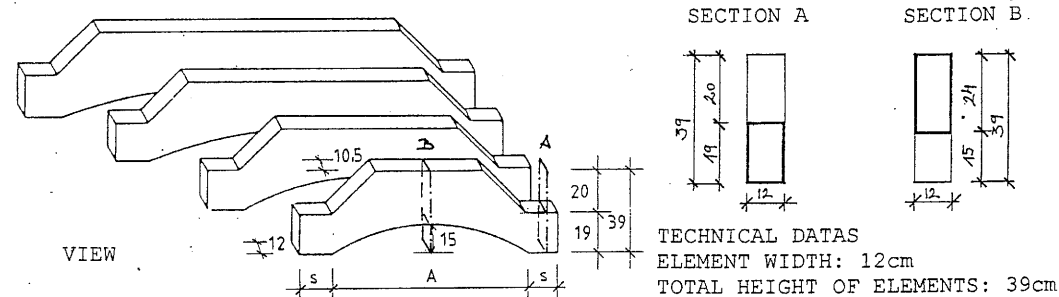
THE "HA" TYPE PREFABRICATED LINTEL CAN BE APPLIED IN BRICK AND BLOCK WALLS, AND GIVES INSULATED SPANNING WITHOUT COLDBRIDGE



THE OVERALL HEAT TRANSFER RATE: $k=0.69W/m^2K$

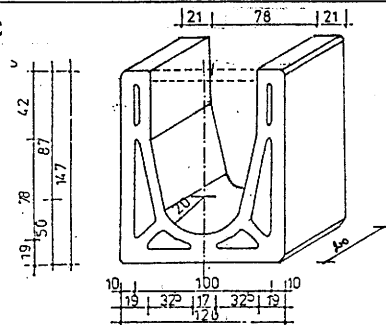
TYPE	BEARING DISTANCE	SPAN	TOTAL LENGTH	VOLUME	MASS	OPERATING MOMENT	MOMENT BEARING CAPACITY	SHEARING
	/s/	/f/	/l/			/M _o /	/M _h /	/T _{sh} /
	/m/	/m/	/m/	/m³ /	/kg/	/kNm/	/kNm/	/kN/
HA 9	0.15	0.90	1.20	0.084	210	10.00	12.50	44.03
HA 12	0.15	1.20	1.50	0.104	261	10.00	12.50	44.03
HA 15	0.15	1.50	1.80	0.125	313	11.00	13.75	44.03
HA 18	0.30	1.80	2.40	0.167	417	16.64	20.80	44.03
HA 21	0.30	2.10	2.70	0.188	470	22.68	28.35	51.55
HA 24	0.30	2.40	3.00	0.209	522	30.00	37.50	65.12

THE "AI" TYPE ARCH FORM LINTEL

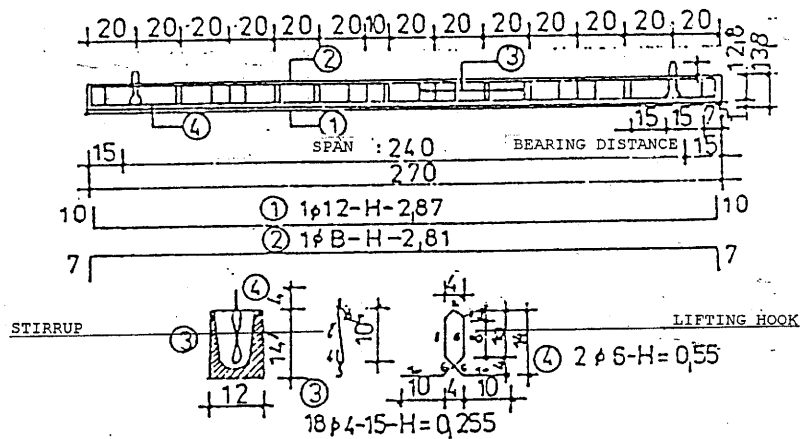


TYPE	SPAN	LENGTH	RADIUS	HEIGHT OF THE SPAN	BEARING DISTANCE	MASS	MOMENT BEARING CAPACITY
	/cm/	/cm/	/cm/	/cm/	/cm/	/kg/	/kNm/
AI 90/15	90	120	75	15	15	79	7.00
AI 100/15	100	130	91	15	15	86	7.00
AI 120/15	120	150	128	15	15	103	7.00
AI 150/15	150	180	195	15	15	128	10.60
AI 180/15	180	210	278	15	15	151	14.56

CMG-2 PROFILE

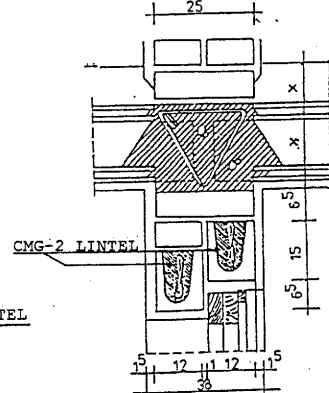
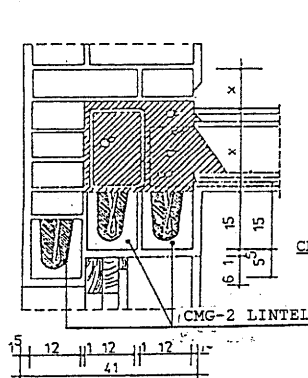
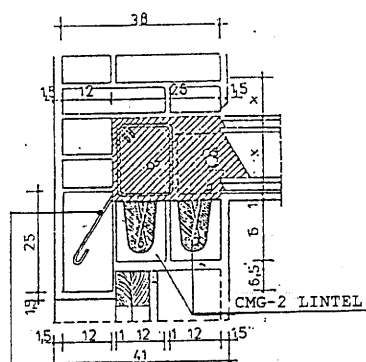


CMG-2 TYPE LINTEL



SPANNING WITH REBATE IN EXTERNAL WALL

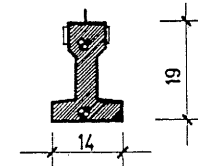
INTERNAL WALL SPANNING



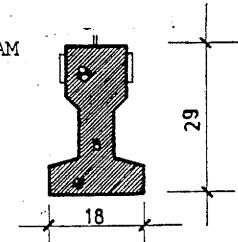
SUSPENDING HOOKS
IN EACH SECOND MORTAR-JOINTS
WITH CENTERING SETTING/

AT THE BEARING SURFACE WITH 1.5-2.0cm CEMENT MORTAR BEDDING

"E" TYPE BEAM

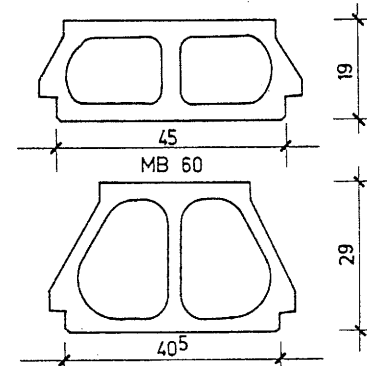


"M" TYPE BEAM

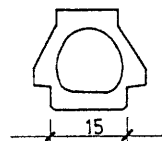


FILLING BLOCKS

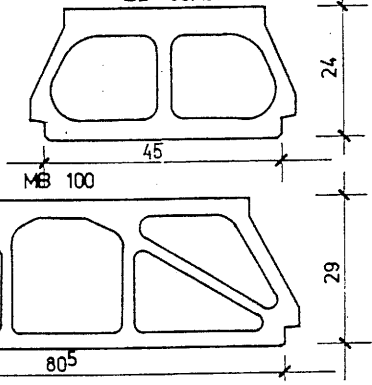
EB 60/19



EB 30/19

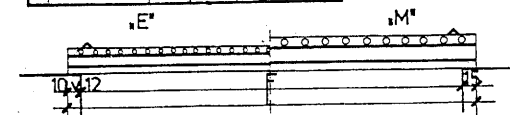


EB 60/24



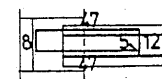
SIGN	F	L	Kg	M _w
E 7-24	240	260	103	15,80
E 7-30	300	320	127	15,80
E 7-36	360	380	150	15,80
E 7-42	420	440	174	15,80
E 7-48	480	500	198	15,80
E 7-54	540	564	223	15,80
E 7-60	600	624	247	15,80
E 7-66	660	684	270	15,80
	cm	cm	kg	kNm

SIGN	F	L	Kg	M _n
M 5-54	540	570	490	47.00
M 5-60	600	630	542	47.00
M 7-60	600	630	542	61.00
M 5-66	660	690	594	47.00
M 7-66	660	690	594	61.00
M 9-66	660	690	594	69.00
M 5-72	720	750	645	47.00
M 7-72	720	750	645	61.00
M 9-72	720	750	645	69.00
M 5-78	780	810	695	47.00
M 7-78	780	810	695	61.00
M 9-78	780	810	695	69.00
	cm	cm	kg	KNm

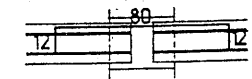


2xø6mm REINFORCEMENT BARS
PER BEAMS

AT EXTERNAL WALLS



AT INTERMEDIATE WALLS

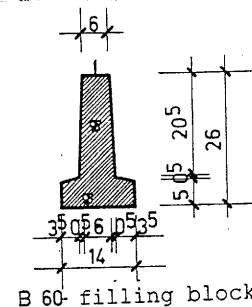


REMARK

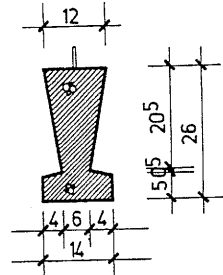
REMARK
OVER 4.00m SPAN WITH 4.00cm SUBCONCRETE AND CROSSWISE AT MOST 2.00m WITH MONOLITHIC
R.C. RIBS INSTEAD A COURSE OF FILLING BLOCKS

DATAS OF PREFABRICATED REINFORCED CONCRETE BEAMS AND FILLING BLOCKS

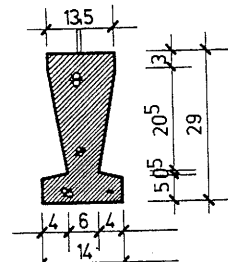
"FF" type beam



"G" type beam

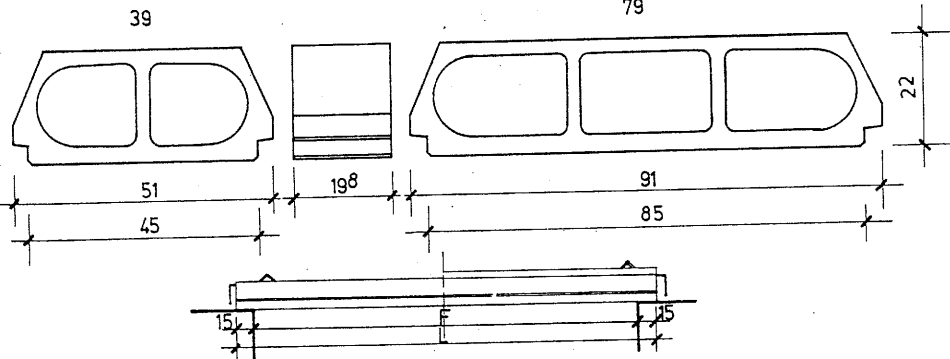


"Gm" type beam



39

79



sign	F	L	kg/db	M _w
FF 24 12	240	270	141	1222
FF 28 17	280	310	162	1695
FF 30 17	300	330	172	1695
FF 32 18	320	350	183	1876
FF 36 24	360	390	204	2393
FF 40 24	400	430	225	2393
FFk 42 24	420	450	235	*
FF 46 24	460	490	256	2393
	cm	cm	kg	kNm

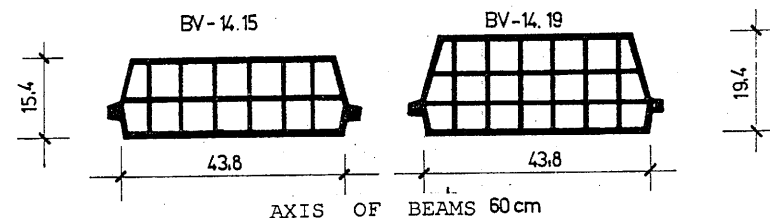
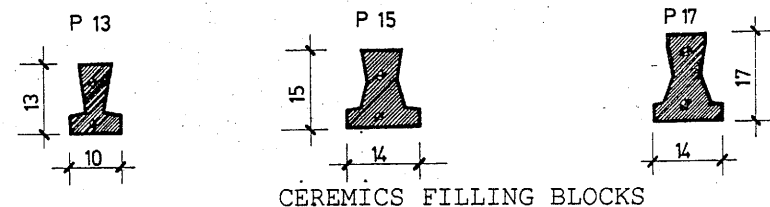
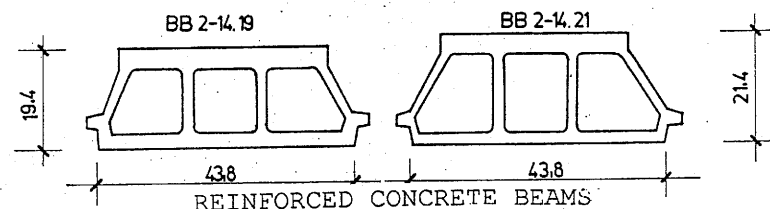
* +23.93
-13.40

sign	F	L	kg/db	M _w
G 42 33	420	450	292	32.86
G 44 33	440	470	305	32.86
G 46 33	460	490	318	32.86
G 48 30	480	510	331	30.78
G 48 40	480	510	331	40.40
G 50 44	500	530	341	43.99
G 52 44	520	550	357	43.99
G 54 40	540	570	370	40.40
G 56 44	560	590	383	43.99
	cm	cm	kg	kNm

sign	F	L	kg/db	M _w
Gm 60 44	600	630	497	44.18
Gm 60 62	600	630	497	61.67
Gm 62 50	620	650	513	50.18
Gm 64 62	640	670	529	61.76
	cm	cm	kg	kNm

"BVM-PPB" FLOOR

FLOOR ELEMENTS CONCRETE FILLING BLOCKS

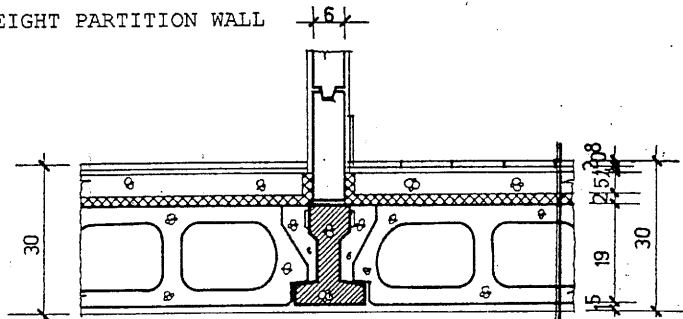


APPLICABLE FLOORS															
Floor type		Span /dm/													
BEAM + FILLING BLOCK	Floor	cm/	24	30	36	42	48	54	60	66	72	78			
P 13 BB-10-17	17+0							⊗	⊗	⊗	⊗	⊗			
P 15 BB-14-19	19+0									⊗	⊗	⊗			
P 17 BB-14-21	21+0									⊗	⊗	⊗			
2 P 13 BB-10-17	17+0		⊗	⊗						⊗	⊗	⊗			
2 P 15 BB-14-19	19+0		⊗	⊗							⊗	⊗			
2 P 17 BB-14-21	21+0		⊗	⊗							⊗	⊗			
P 15 BV-14-15	15+4										⊗	⊗			
P 17 BV-14-19	19+4														
2 P 15 BV-14-15	15+4		⊗	⊗											
2 P 17 BV-14-19	19+4		⊗	⊗											
P 15 BV-14-19	19+4											⊗			
2 P 15 BV-14-19	19+4		⊗	⊗											
			⊗	inexpedient										⊗	forbidden

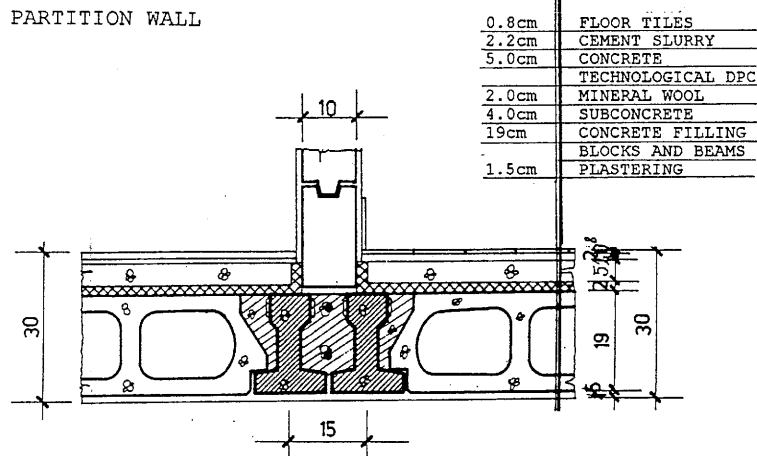
inexpedient forbidden

"E" TYPE BEAMS AND "EB" FILLING BLOCKS

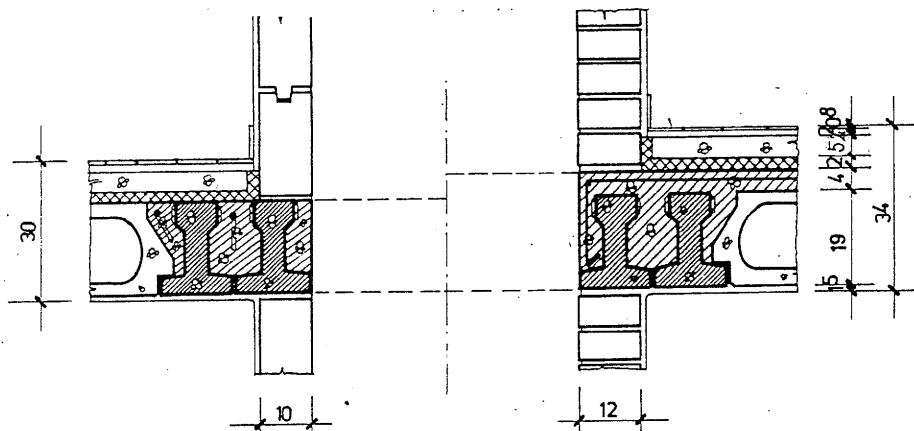
SUPPORTING LIGHT WEIGHT PARTITION WALL



SUPPORTING NORMAL PARTITION WALL



SUPPORTING PARTITION WALLS AROUND FLOOR OPENINGS

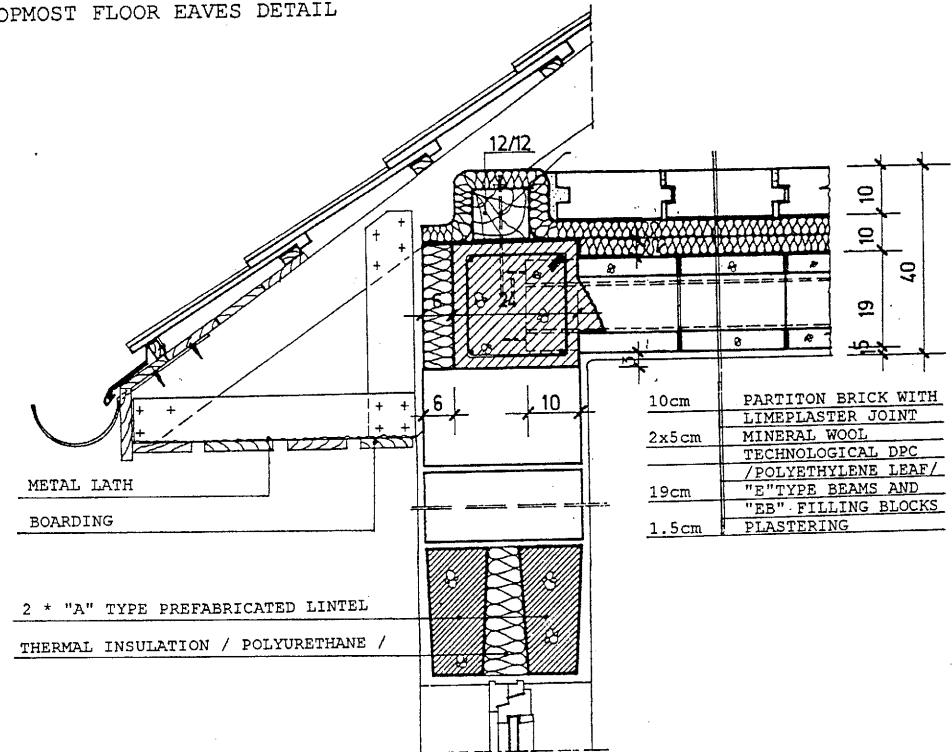


REMARK

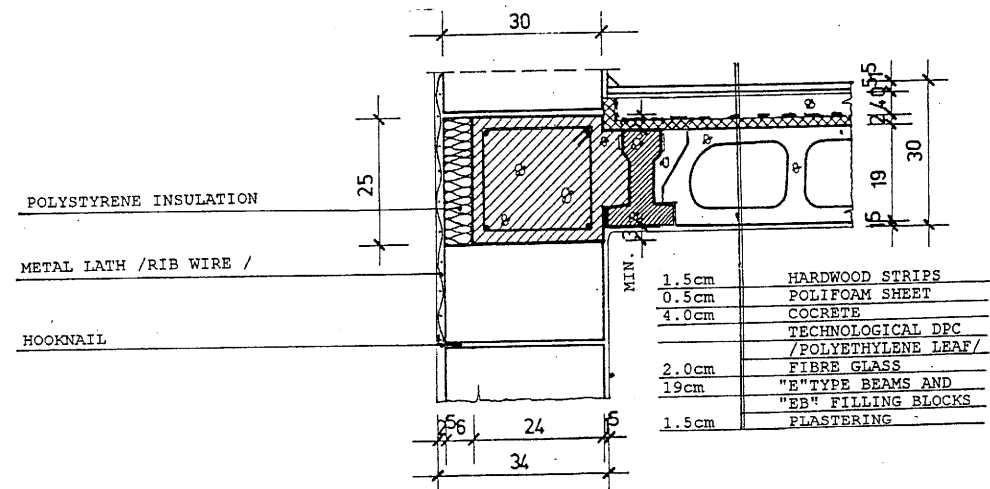
- WITHOUT SUBCONCRETE THE LOADBEARING CAPACITY IS LIMITED
- THE SOUND INSULATING FEATURES ARE INSUFFICIENT

"E" TYPE BEAMS AND "EB" FILLING BLOCKS

TOPMOST FLOOR EAVES DETAIL



INTERMEDIATE FLOOR AND EXTERNAL WALL DETAIL

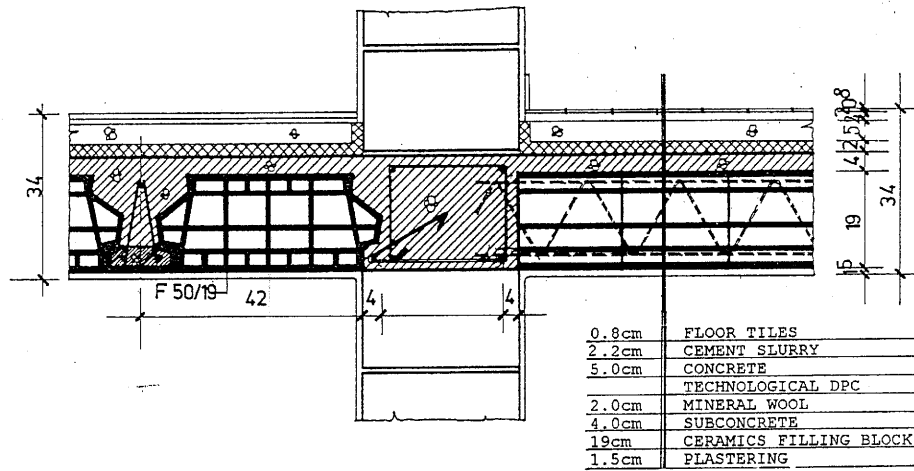


REMARK

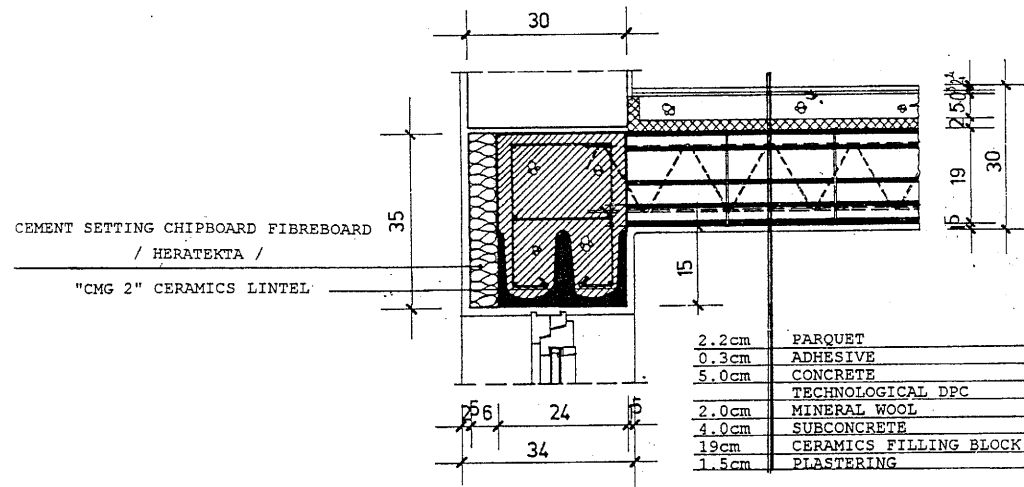
- WITHOUT SUBCONCRETE THE LOADBEARING CAPACITY IS LIMITED
- THE AIRBORN SOUND REDUCTION INDEX IS INSUFFICIENT

FERT FLOOR

INTERNAL LOADBEARING WALL DETAIL



EXTERNAL WALL WITH CERAMICS LINTEL

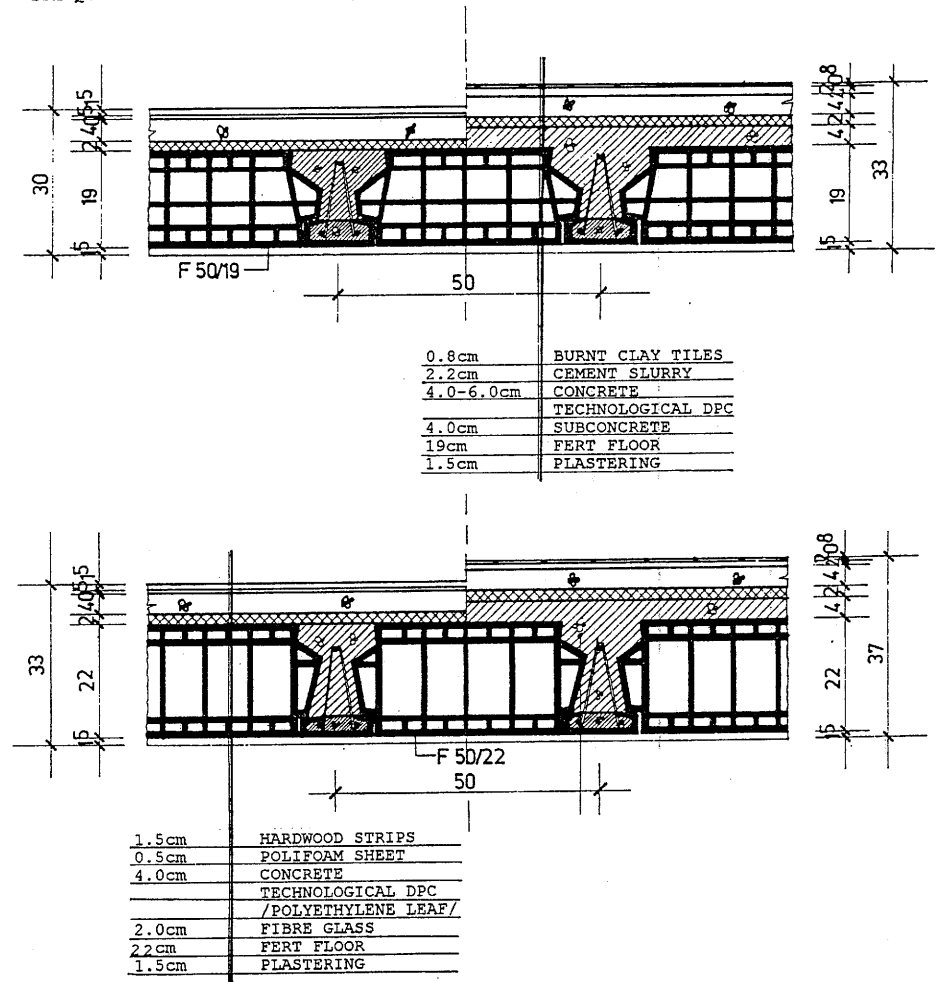


REMARK
- WITHOUT SUBCONCRETE THE LOADBEARING CAPACITY IS LIMITED
- THE SOUND INSULATING FEATURES ARE INSUFFICIENT

FERT FLOOR

PARQUET WITH FLOATING FLOOR

FLOOR TILES WITH FLOATING FLOOR



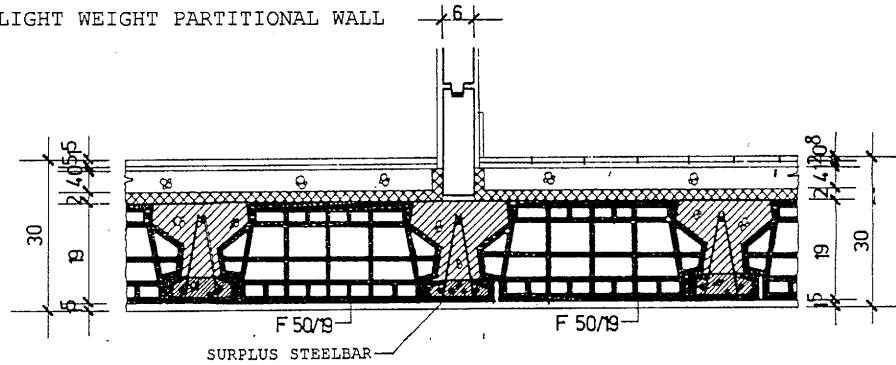
REMARK
- WITHOUT SUBCONCRETE THE LOADBEARING CAPACITY IS LIMITED,
THE FLOOR CAN BE APPLIED ONLY BELOW 3.00m
- INSUFFICIENT AIRBORN SOUND REDUCTION CAPACITY

THE LOADBEARING CAPACITY IS LIMITED,
THE FLOOR CAN BE APPLIED ONLY BELOW 4.80m
- THE AIRBORN SOUND REDUCTION CAPACITY IS LOW

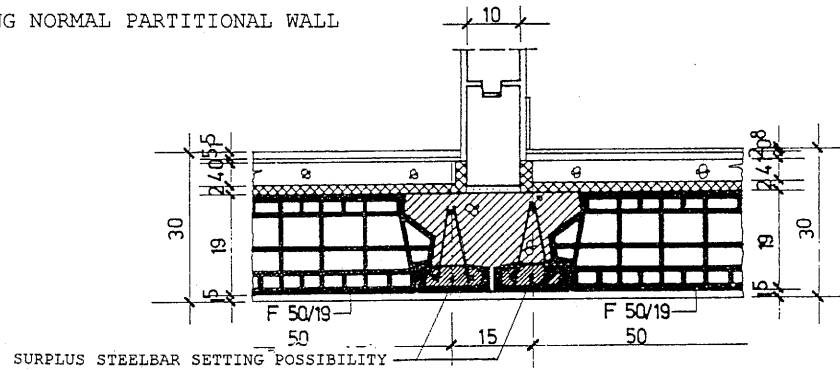
FERT FLOOR

BVM-PPB FLOOR RECOMMENDED SETTING

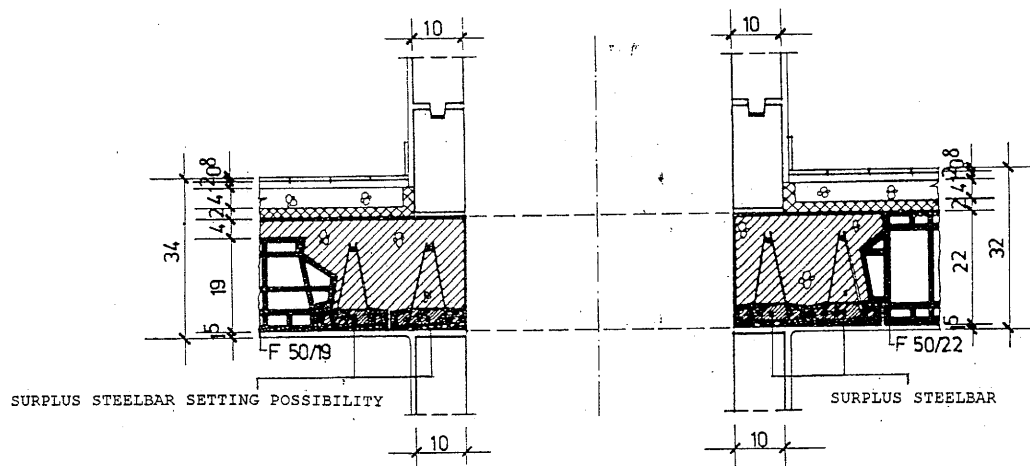
SUPPORTING LIGHT WEIGHT PARTITIONAL WALL



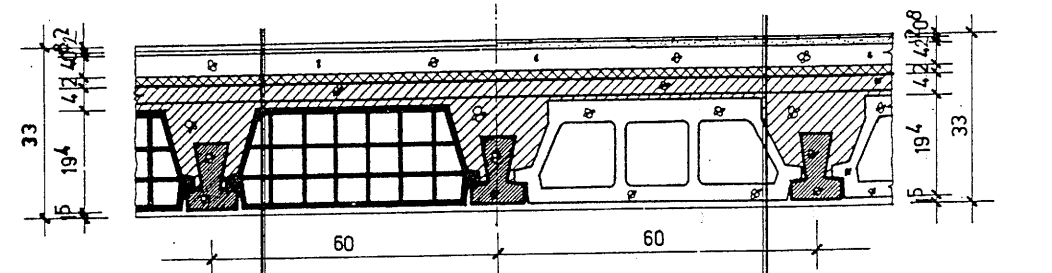
SUPPORTING NORMAL PARTITIONAL WALL



SUPPORTING PARTITIONAL WALLS AROUND FLOOR OPENINGS

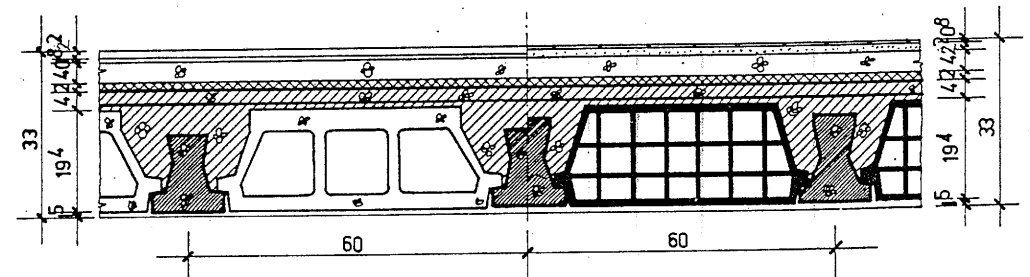


DETAIL



2.2cm	PARQUET
0.3cm	GLUE
2.0cm	CEMENT SLURRY
4.0cm	CONCRETE
2.0cm	FLOATING LAYER
4.0cm	/P.E. LEAF + FIBRE GLASS/
19cm	SUBCONCRETE
1.5cm	CERAMICS FILLING BLOCK
1.5cm	PLASTERING

0.8cm	FLOOR TILES
2.2cm	CEMENT SLURRY
4.0cm	CONCRETE
2.0cm	FLOATING LAYER
4.0cm	/P.E. LEAF + FIBRE GLASS/
19.4cm	SUBCONCRETE
1.5cm	CONCRETE FILLING BLOCK
1.5cm	PLASTERING

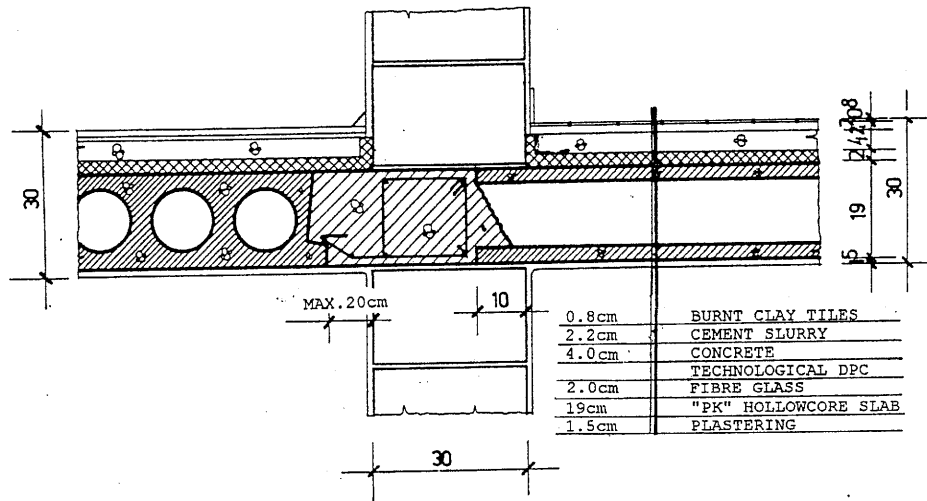


REMARK

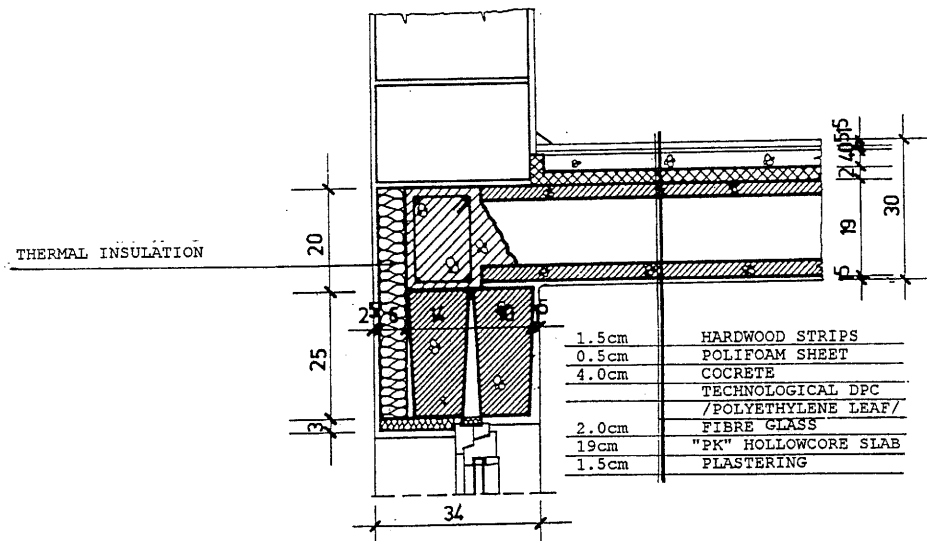
- WITHOUT SUBCONCRETE THE FLOOR CONSTRUCTION CAN BE APPLIED ONLY BELOW 4.20m

PREFABRICATED HOLLOWCORE SLAB

INTERNAL LOADBEARING WALL DETAIL

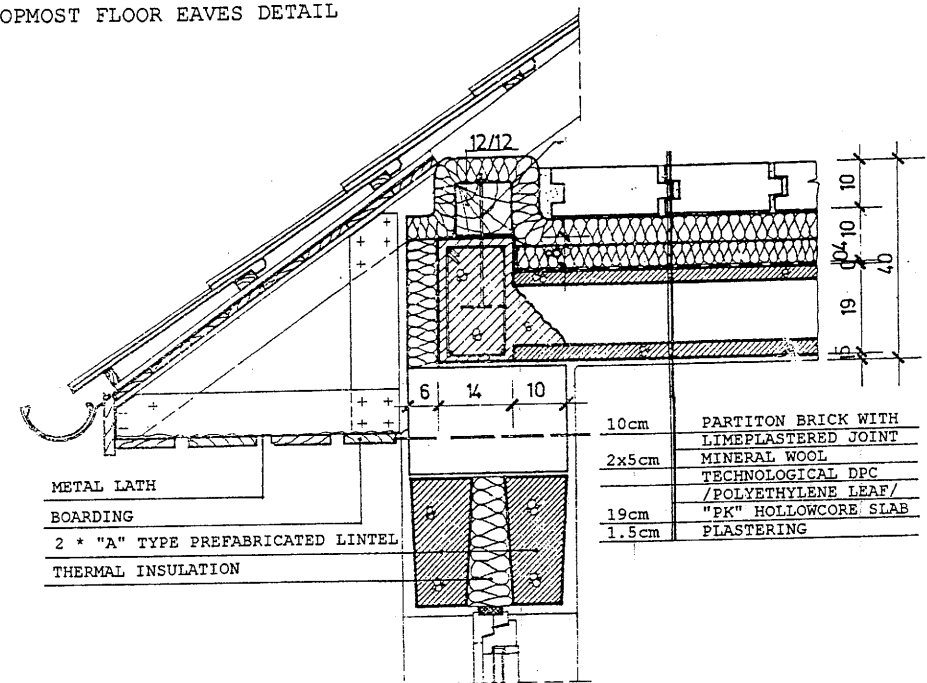


INTERMEDIATE FLOOR AND EXTERNAL WALL DETAIL

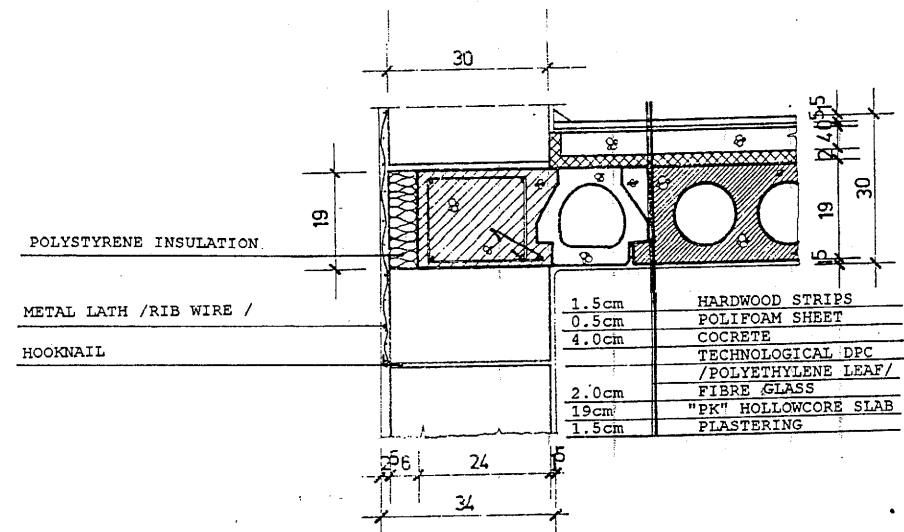


PREFABRICATED HOLLOWCORE SLAB

TOPMOST FLOOR EAVES DETAIL

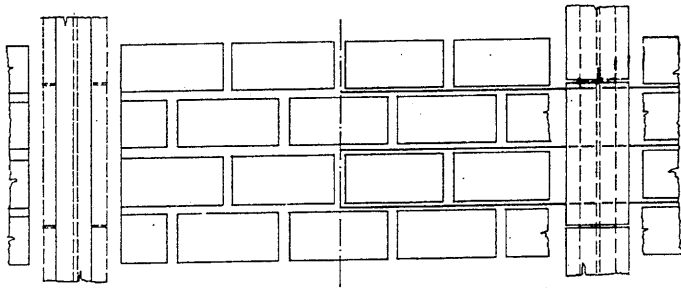
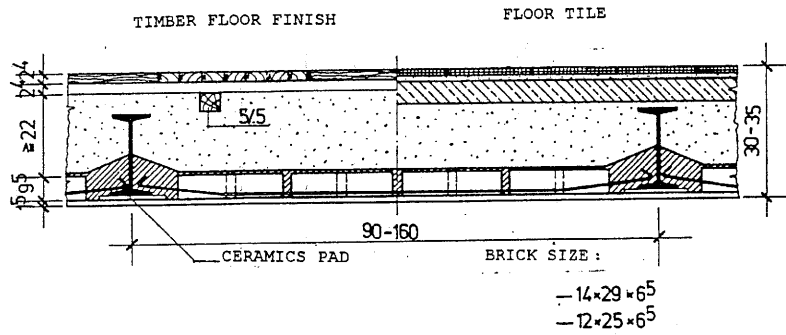


INTERMEDIATE FLOOR AND EXTERNAL WALL DETAIL

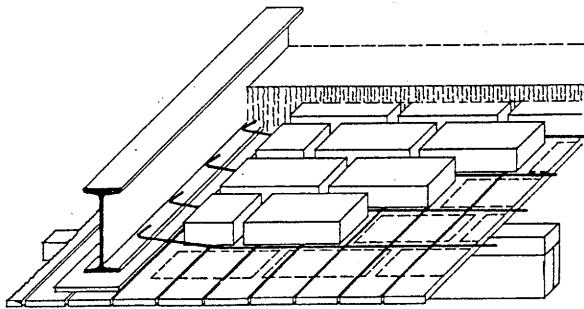


"HORCSIK" BRICK FILLING FLOOR

DETAIL



CROSSWISE PARTITION WALLS SUPPORTED BY (CALCULATED) R.C. RIBS.



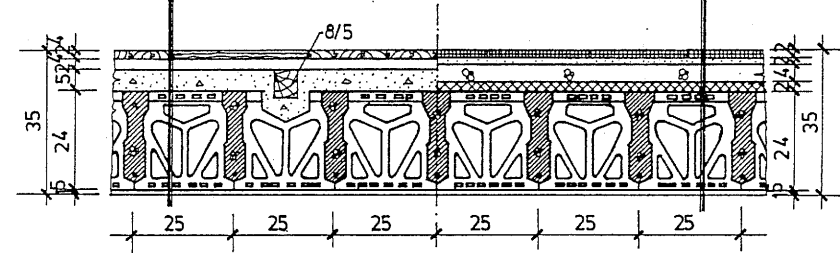
FLOOR SETTING :ON TOTAL SURFACE SHUTTERING
THE SHUTTERING SUSPENDED ON STEEL JOIST OR SUPPORTED BY PROPS.

"BOHN" BLOCK FLOOR

DETAIL

2.4cm	PARQUET
2.4cm	COUNTER FLOOR
5.0cm	FILLING /SLAG,SAND/
24.0cm	BOHN BLOCK+CONCRETE
1.5cm	PLASTERING

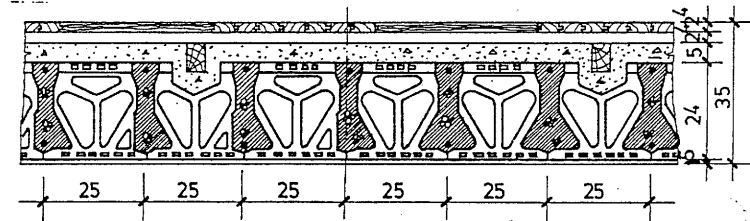
2.0cm	FLOOR TILES
2.0cm	CEMENT SLURRY
4.0cm	CONCRETE
	TECHNOLOGICAL DPC
2.0cm	FLOATING LAYER.
	/MINERAL WOOL OR
	FIBRE GLASS/
4.0cm	SUBCONCRETE
24.0cm	BOHN BLOCK FLOOR
1.5cm	PLASTERING



INCREASING THE LOADBERING CAPACITY AT THE PLACE OF THE -M

WITH ONE SIDE PLATE CUTTING

WITH DOUBLE SIDE PLATE CUTTING



REMARK

THE WEIGHT OF THE FLOOR WITH WOOD FLOOR FINISHING: $\sim 4.00 \text{ kN/m}^2$

OVERALL HEAT TRANSFER RATE: $k=0.9 \text{ W/m}^2\text{K}$

THE FLOOR SETTING ON NON-OVERALL SURFACE CENTERING

PARTITION WALLS: LIGHT WEIGHT PARTITION WALLS /6 OR 8cm WIDTH/

HEAVY PARTITION WALLS ON CROSSWISE RIBS