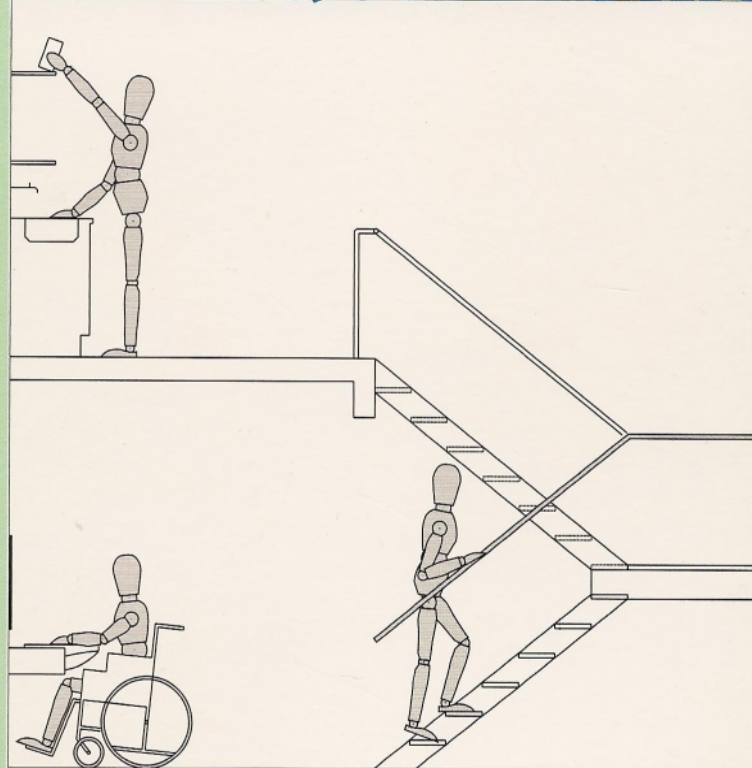


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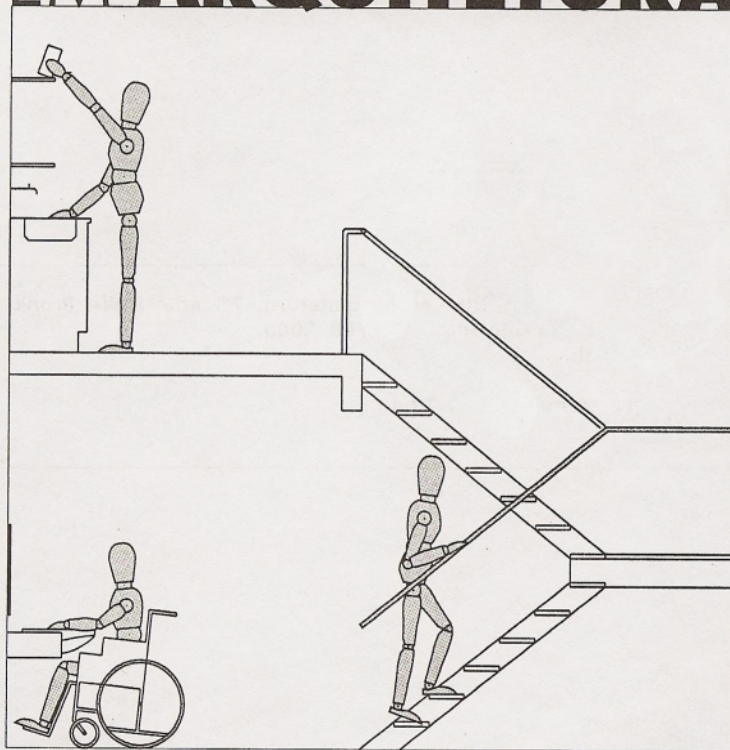


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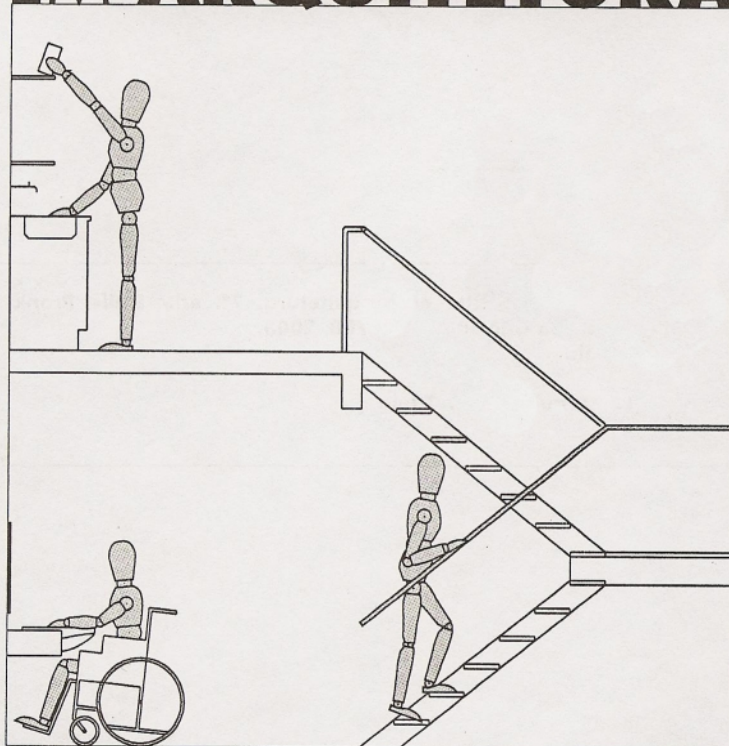
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# **DIMENSIONAMENTO EM ARQUITETURA**



**7ª edição**



**Editora Universitária  
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2003**

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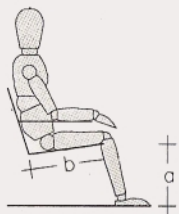
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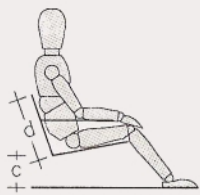
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02 jantar. . . . .	6-9
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04 serviço . . . . .	14-15
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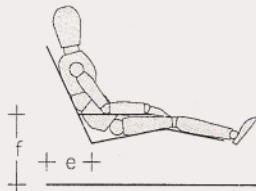




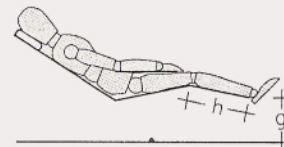
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b 50  
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d 45  
e 14  
f 55



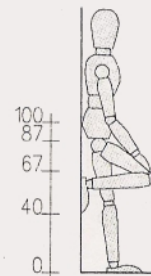
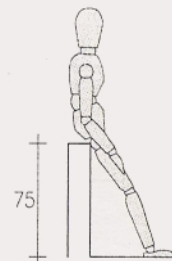
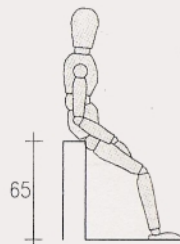
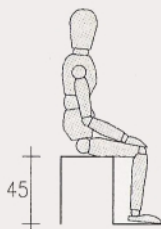
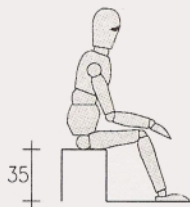
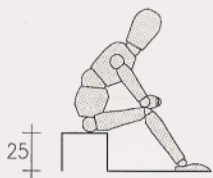
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a 37  
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c 27  
d 70  
e 30  
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g 29  
h 40



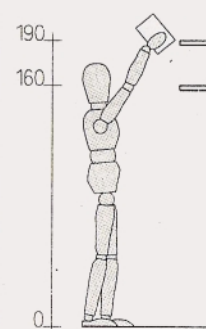
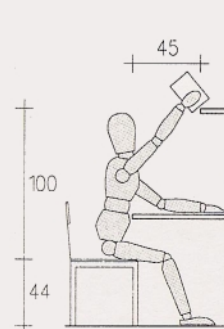
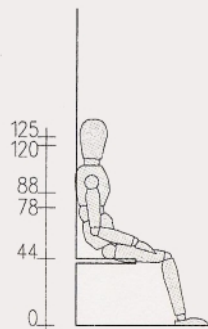
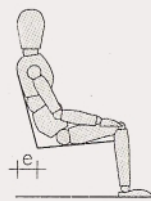
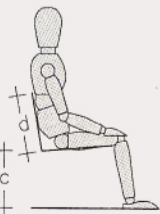
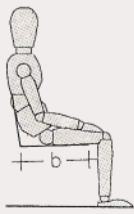
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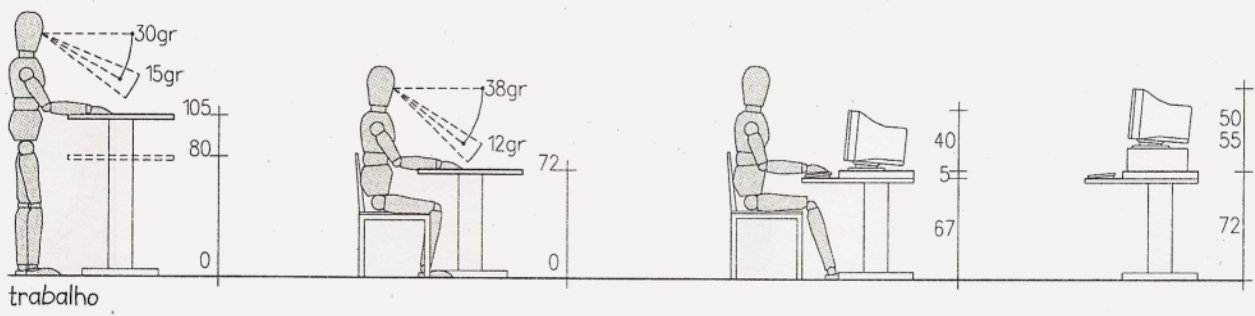
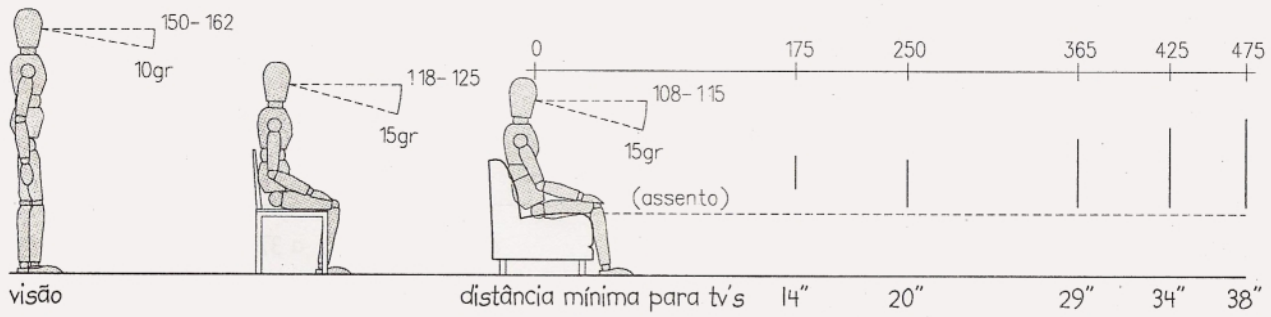
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d 35  
e 6

a 41  
b 47  
c 38  
d 39  
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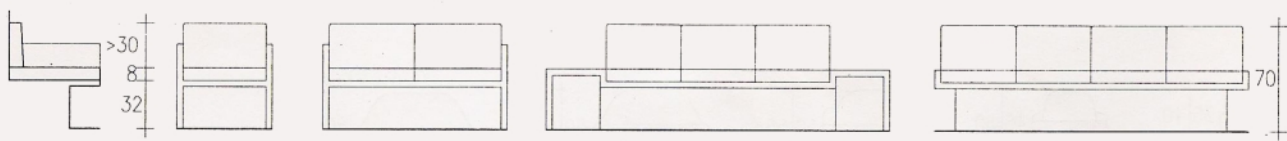
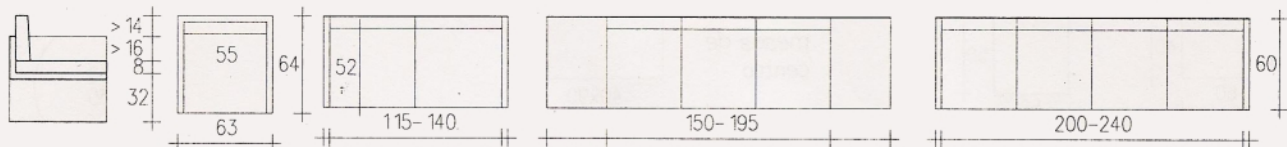
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c 32  
d 50  
e 13



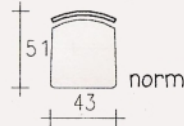
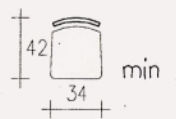
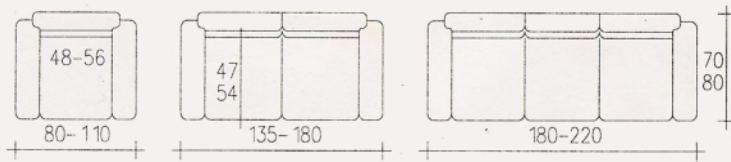
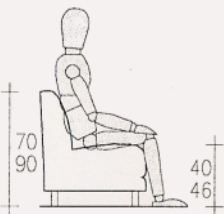
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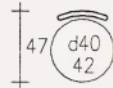
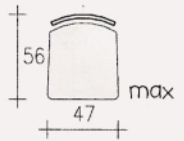
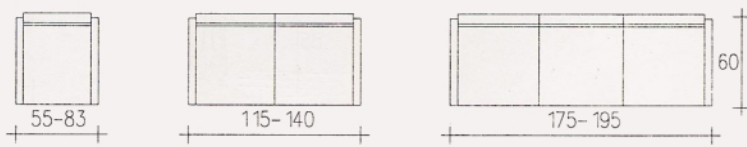
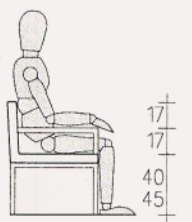




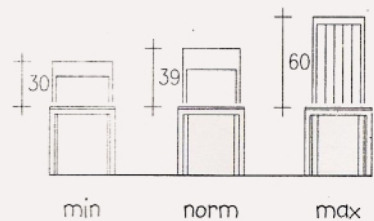
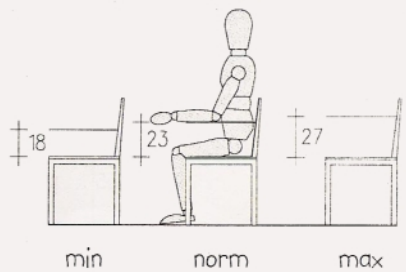
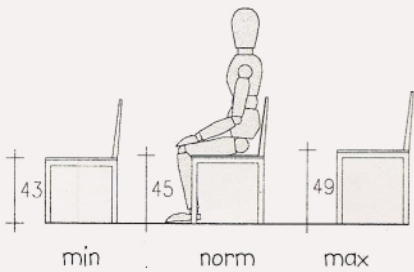
bancos em alvenaria c/almofada de 8cm., altura 40cm.

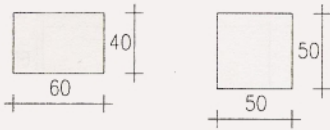


poltronas e sofás comerciais



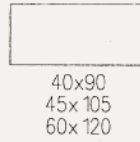
No sentar, mudanças frequentes de posição são importantes; uma boa cadeira deve permitir isso.



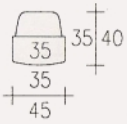
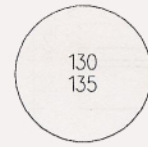


mesas de canto

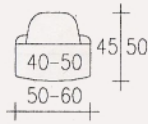
mesas de centro



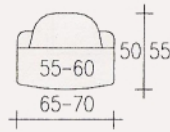
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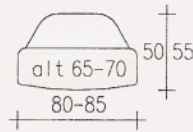
tv 14"



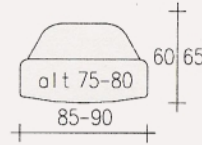
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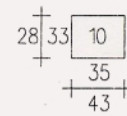
tv 29"



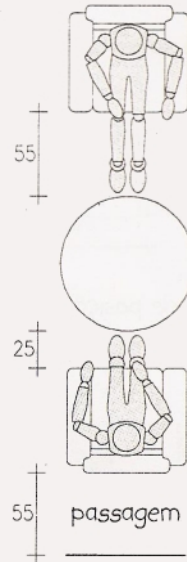
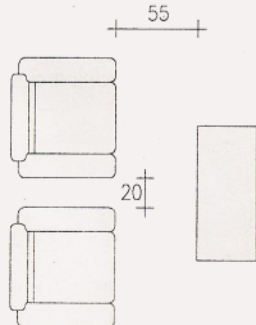
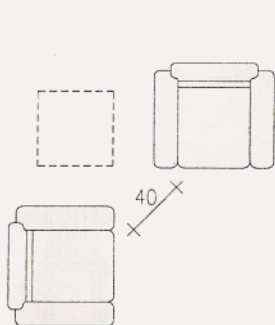
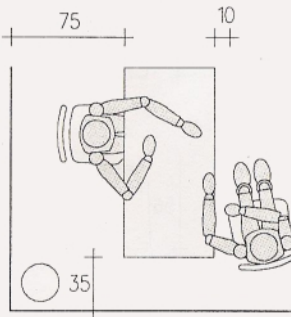
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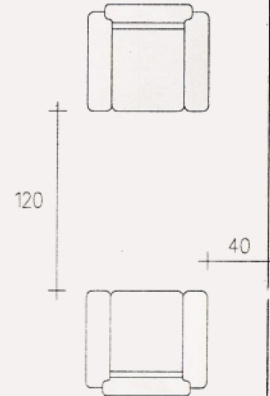
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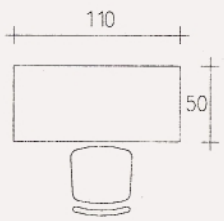


videocassete

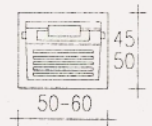
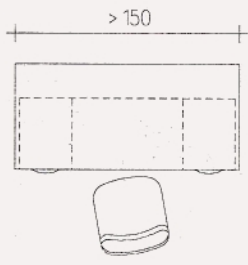
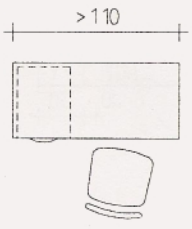
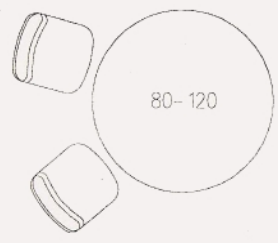
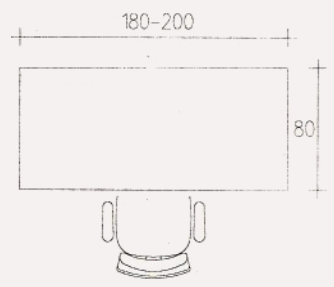
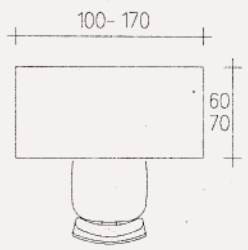


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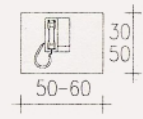




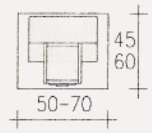
mesas de trabalho



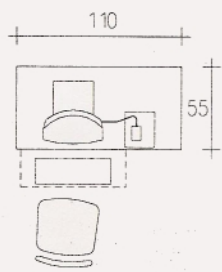
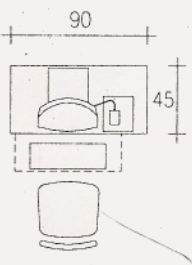
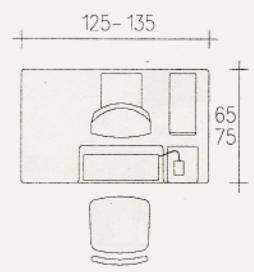
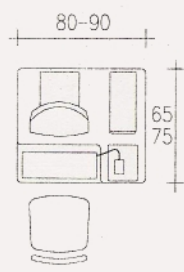
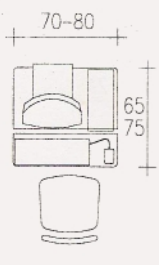
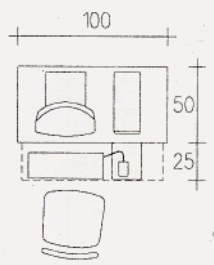
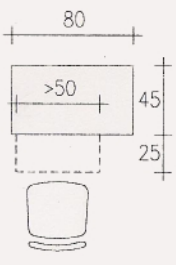
mesa maq. escr.



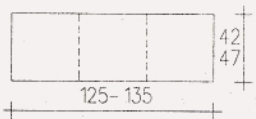
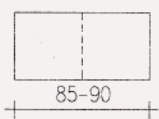
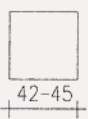
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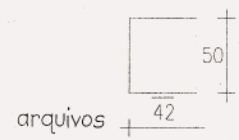
mesa impressora



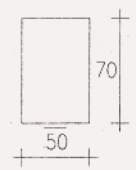
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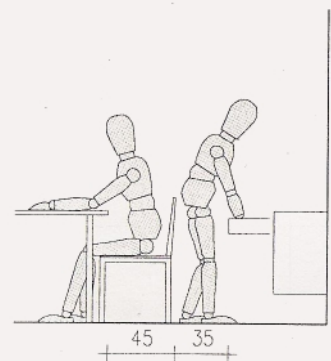
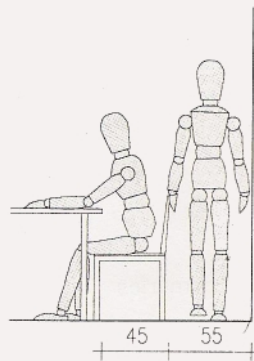
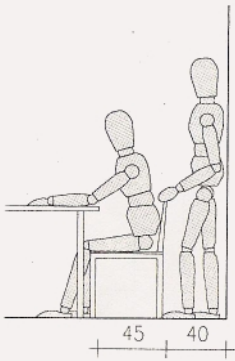
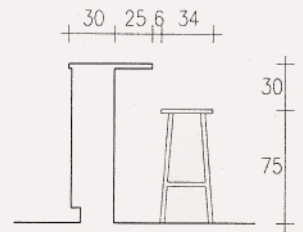
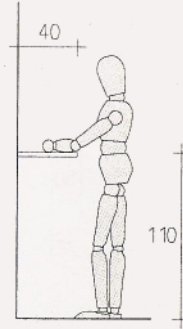
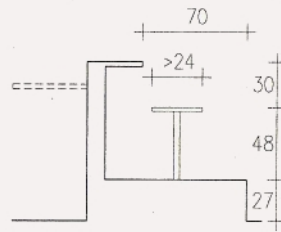
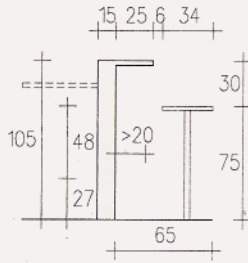
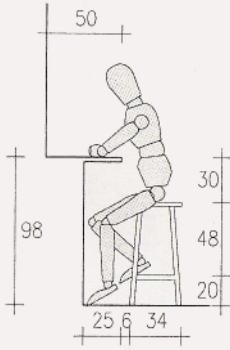
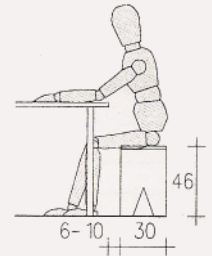
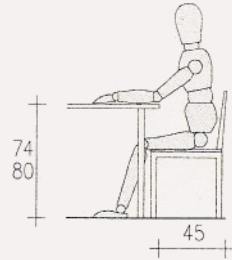
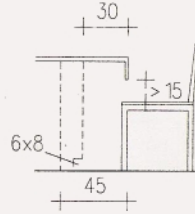
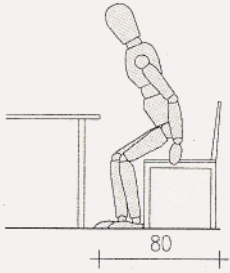
armários

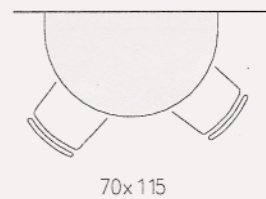
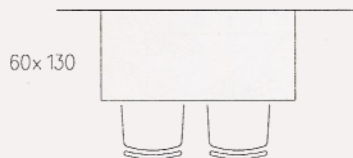
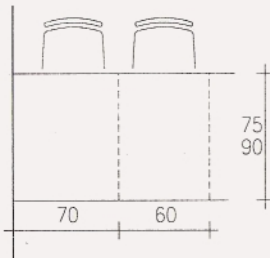
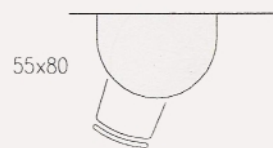
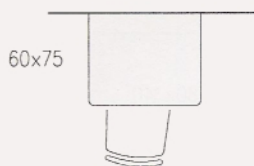
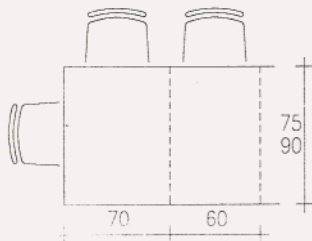
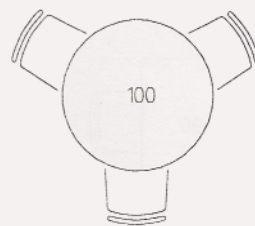
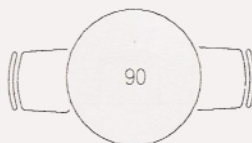
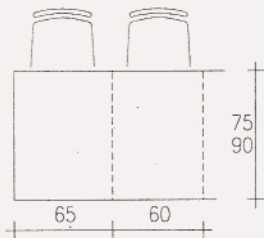
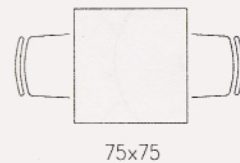
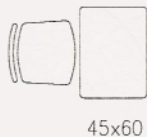
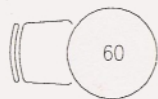
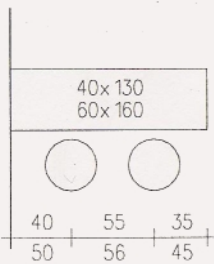


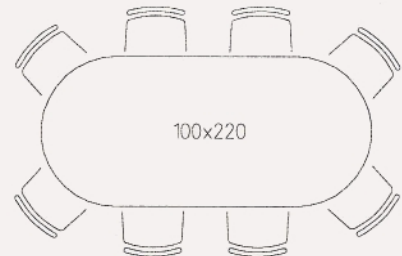
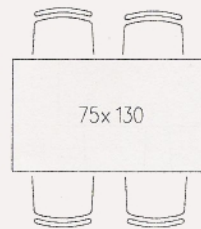
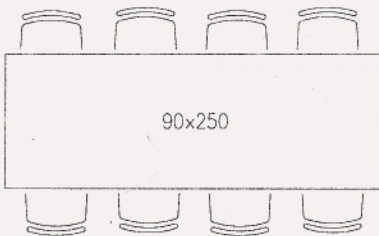
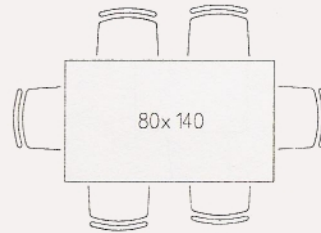
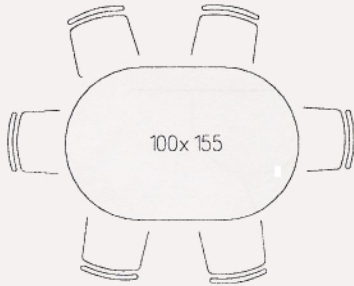
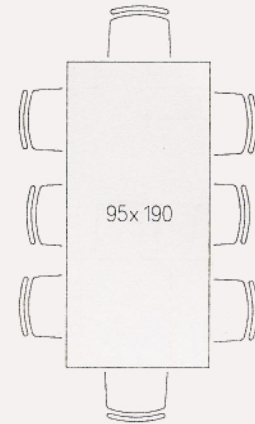
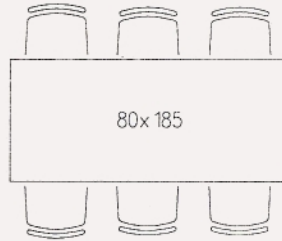
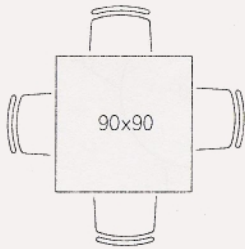
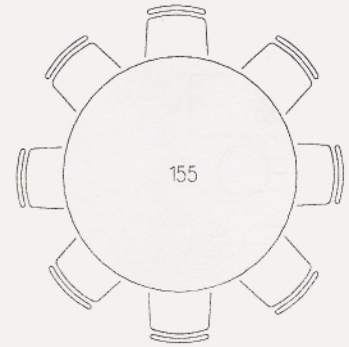
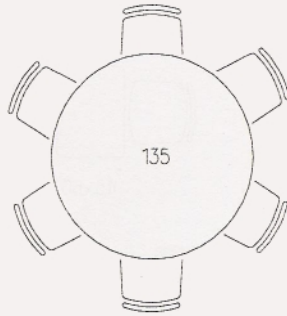
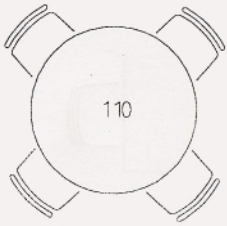
arquivos

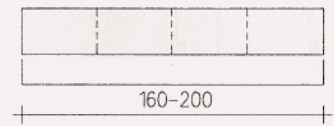
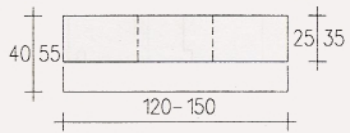
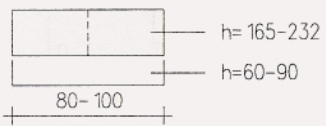
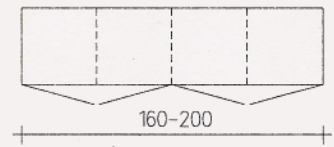
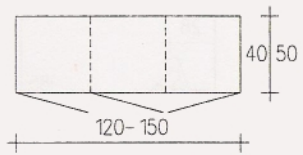
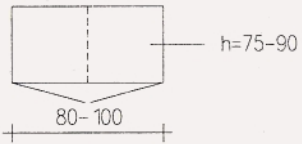


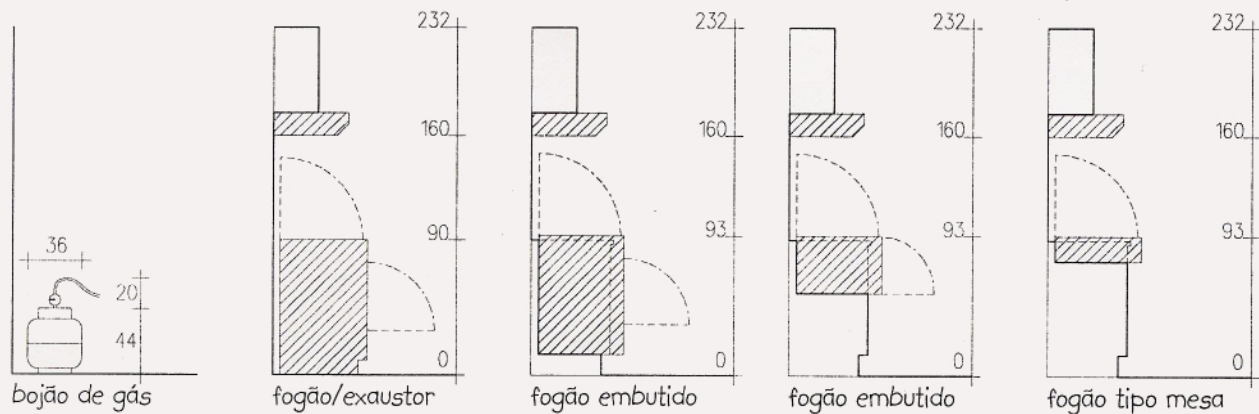
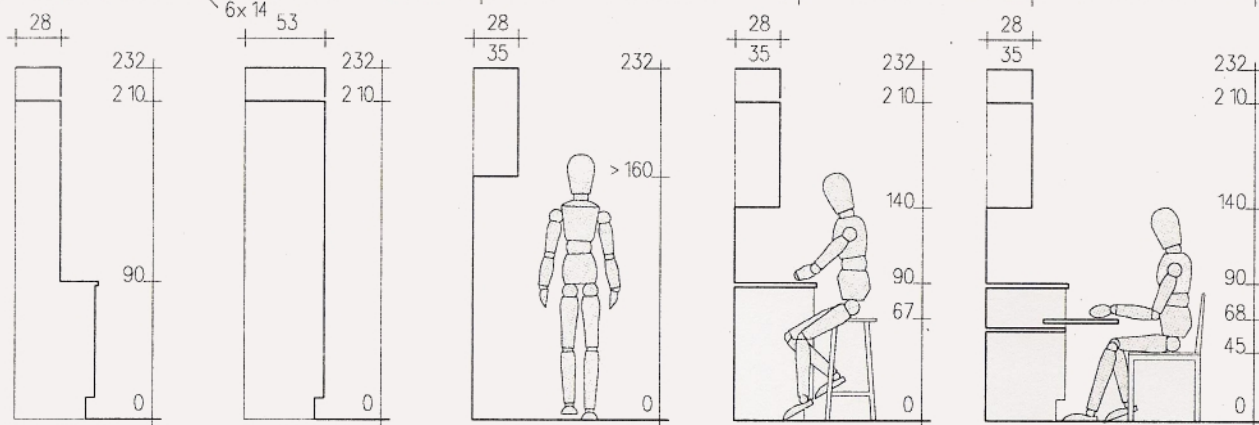
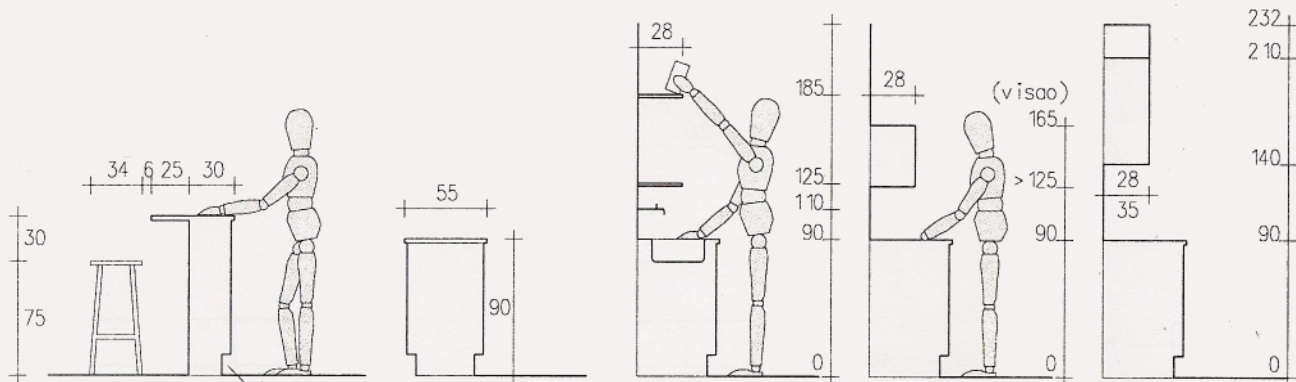




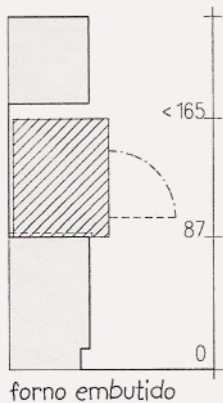




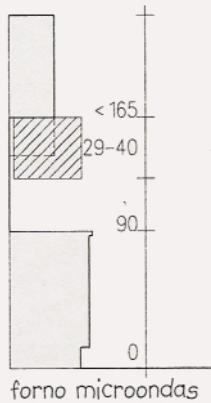




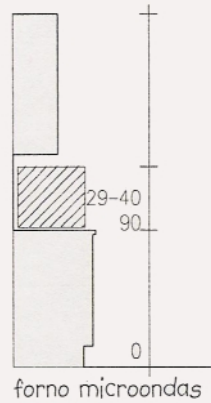




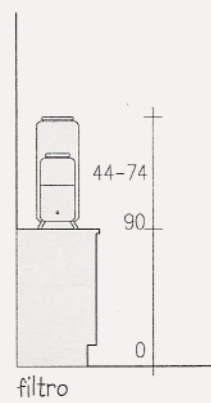
forno embutido



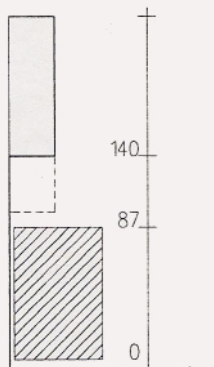
forno microondas



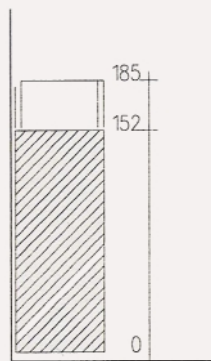
forno microondas



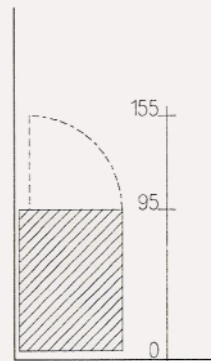
filtro



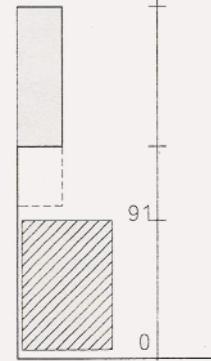
refrigerador freezer



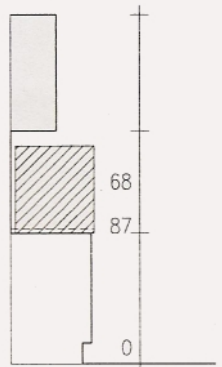
refrigerador freezer



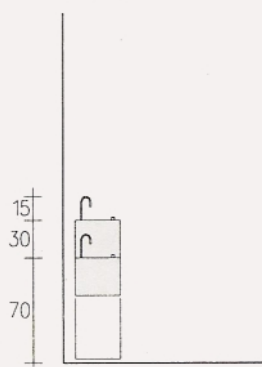
freezer horizontal



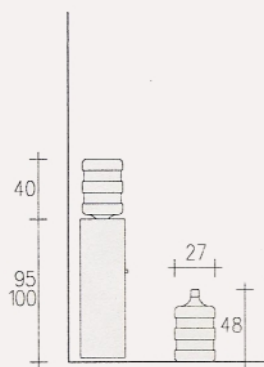
lavalouça convencional



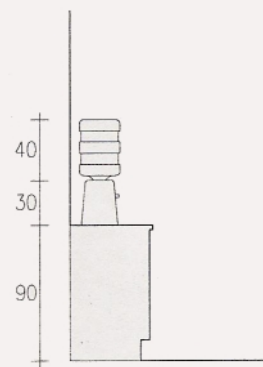
lavalouça compacta



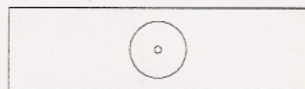
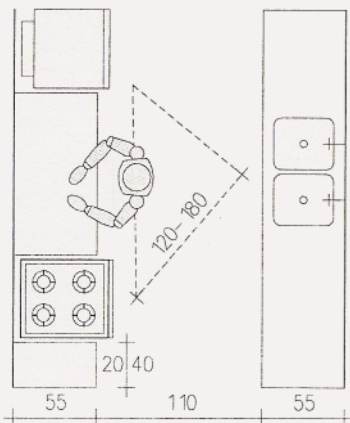
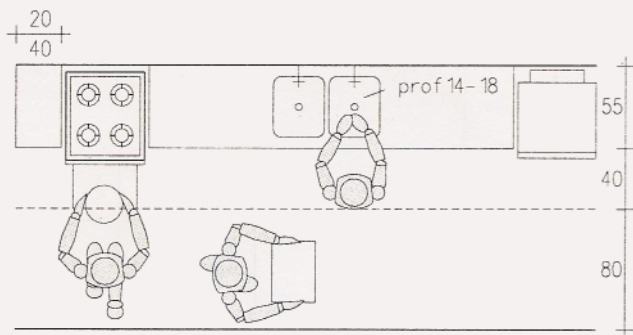
bebedouro



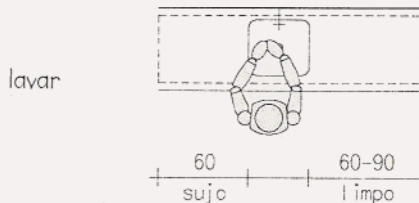
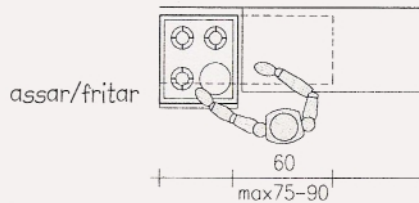
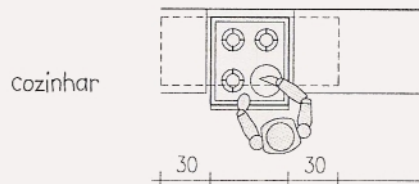
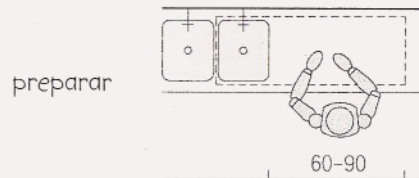
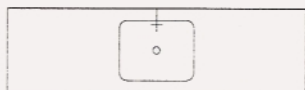
água mineral

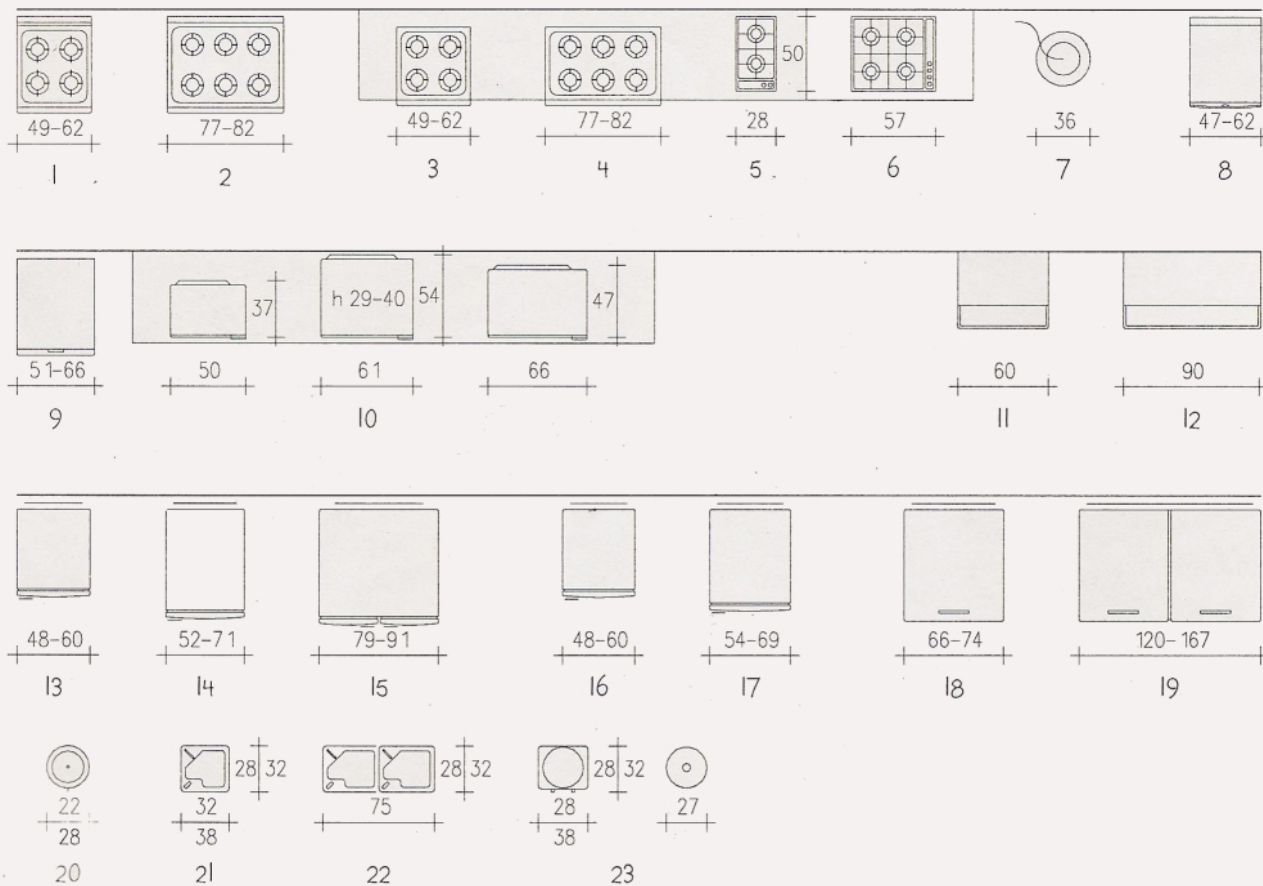


água mineral



cubas d.38 p.13  
 34x40 p.15  
 30,5x47 p.14  
 33x56 p.16  
 45x50 p.20



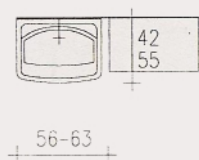


- 1 fogão 4 bocas  
 2 fogão 6 bocas  
 3 fogão tipo "mesa" com 4 bocas  
 4 fogão tipo "mesa" com 6 bocas  
 5 fogão "cooktop" com 2 bocas  
 6 fogão "cooktop" com 4 bocas  
 7 boião de gás  
 8 lavalouça

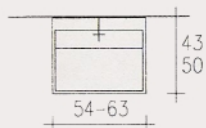
- 9 forno  
 10 fornos microondas  
 11 exaustor para 4 bocas  
 12 exaustor para 6 bocas  
 13 refrigerador (altura 87)  
 14 refrigerador  
 15 refrigerador "side by side"  
 16 freezer vertical (altura 87)

- 17 freezer vertical  
 18 freezer horizontal com 1 tampa  
 19 freezer horizontal com 2 tampas  
 20 filtros  
 21 bebedouro  
 22 bebedouro duplo  
 23 água mineral

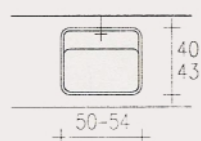




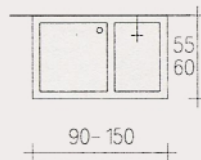
tanque de louça



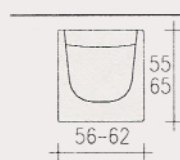
inox



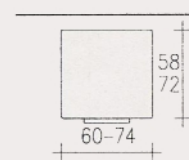
inox sobrepor



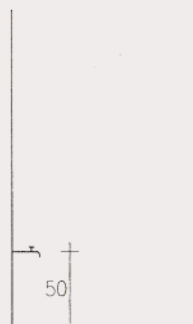
lavandaria



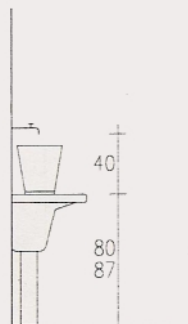
lavadora



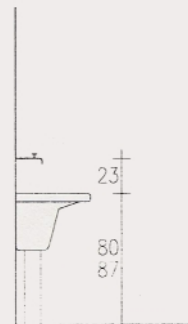
secadora



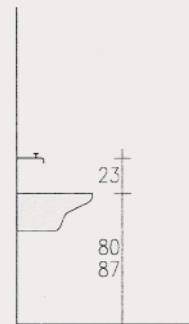
torneira



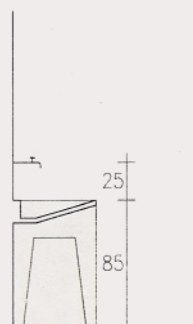
torneira alta



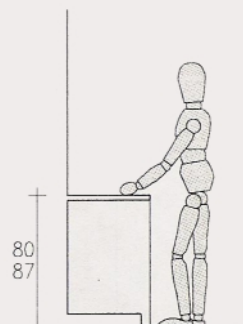
tanque de louça



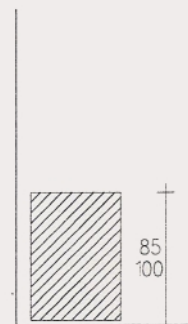
tanque de inox



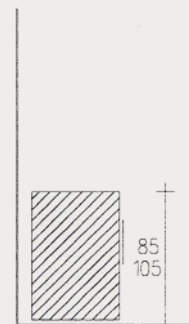
lavandaria



mesa de apoio

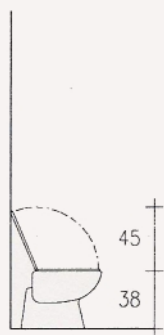
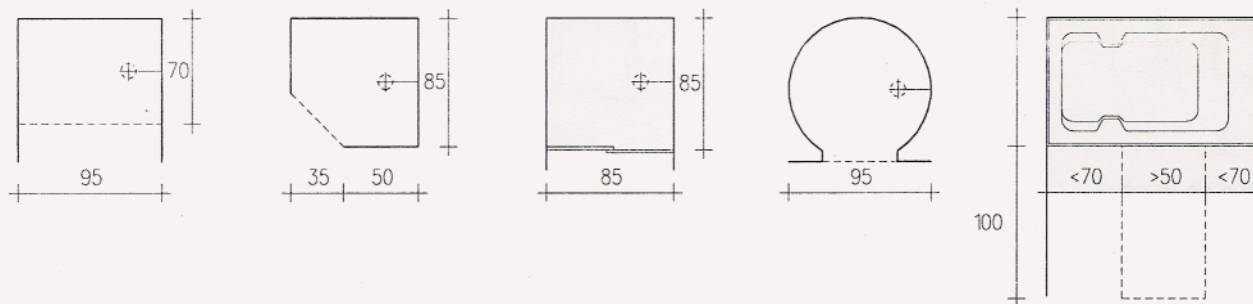


lavadora

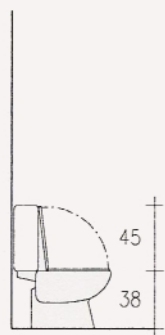


secador

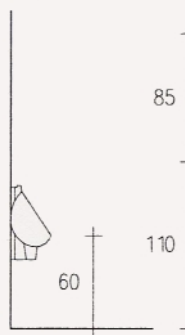




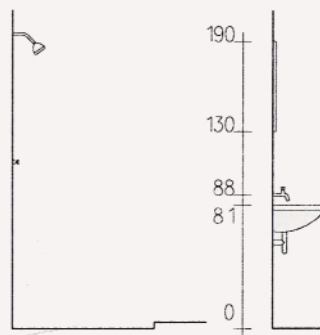
bacia



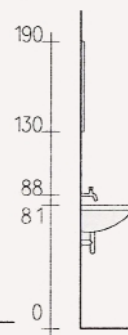
bacia c/ caixa



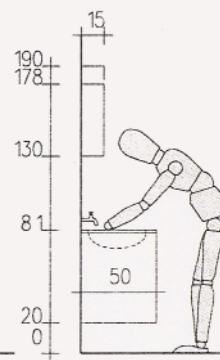
mictório



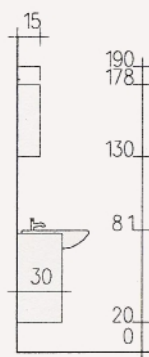
chuveiro



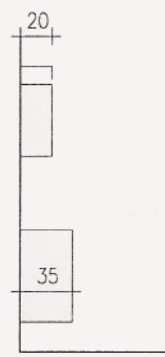
lav. c/ espelho



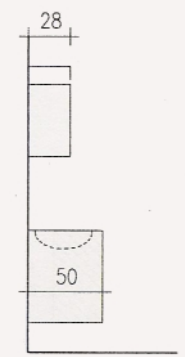
banc. c/ lav.



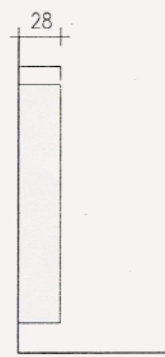
lav. semi-encaixe



banc. s/ lav.



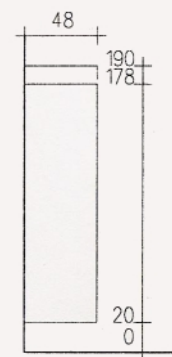
banc. c/ lav.



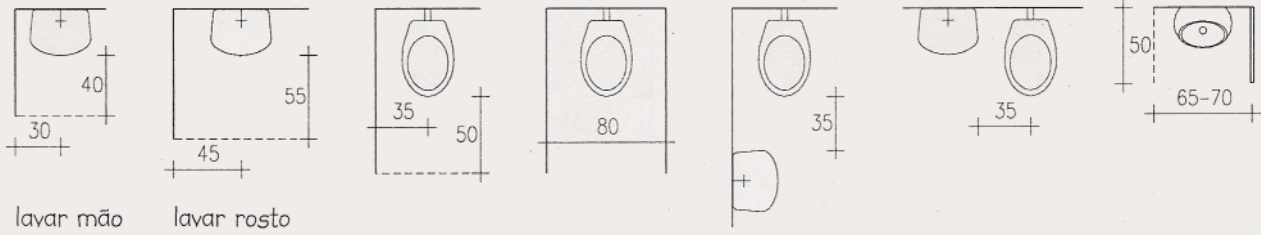
armário



armário

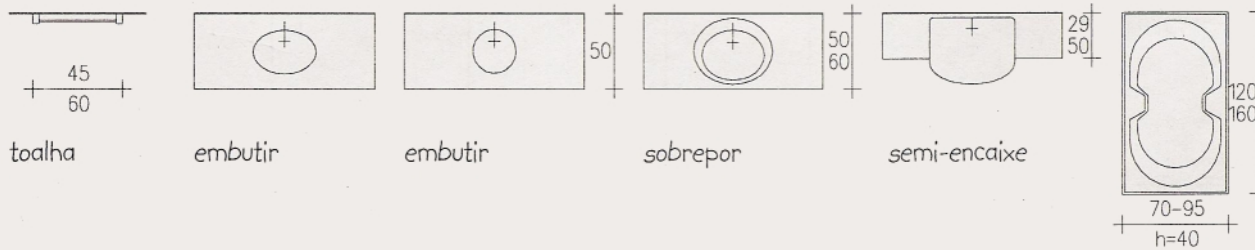
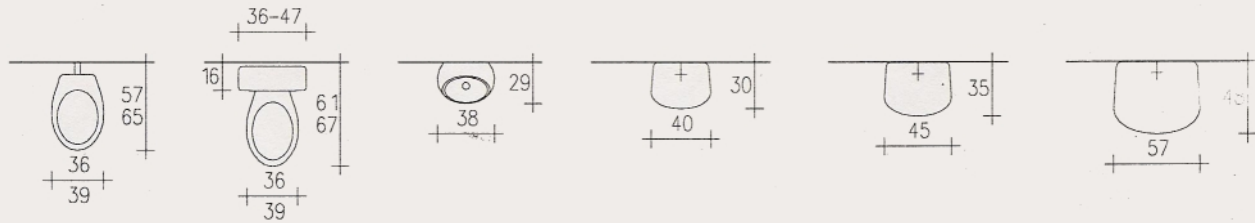


armário



lavar mão

lavar rosto



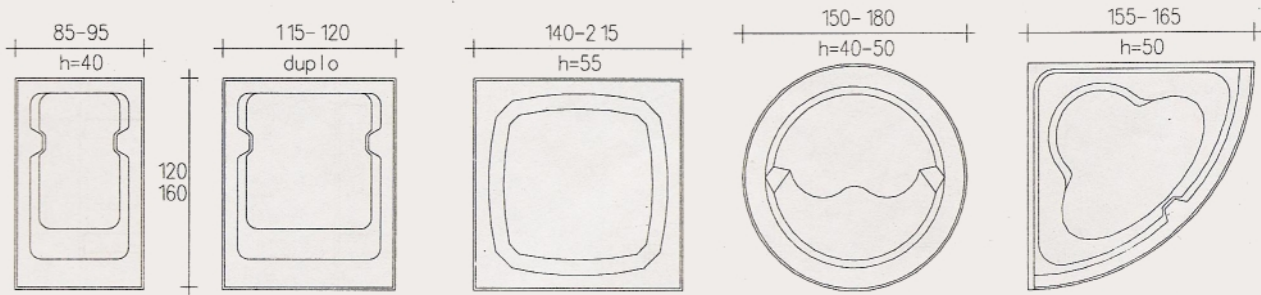
toalha

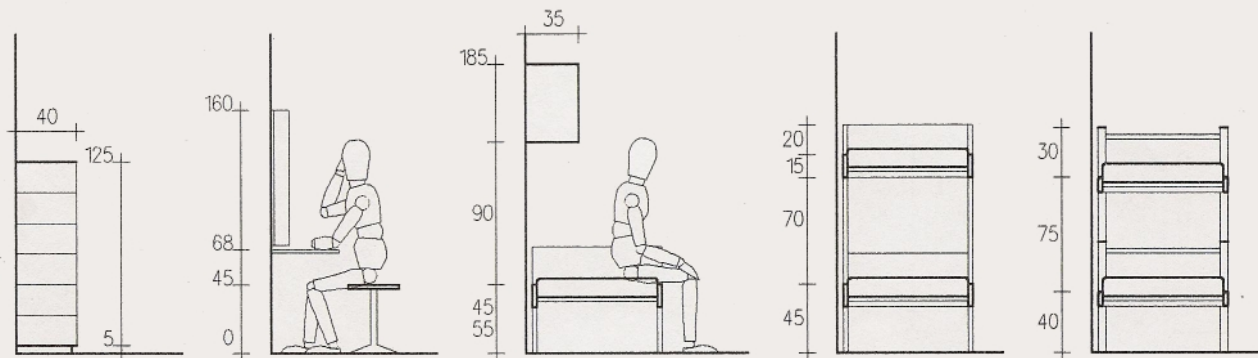
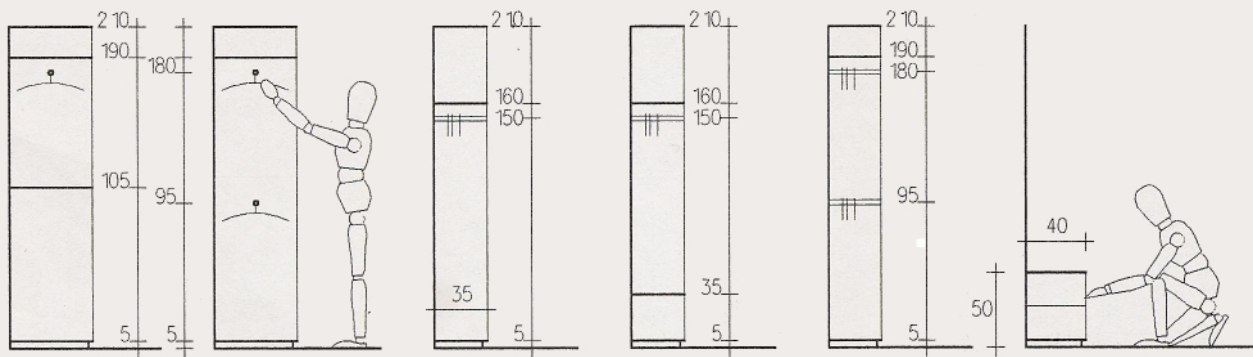
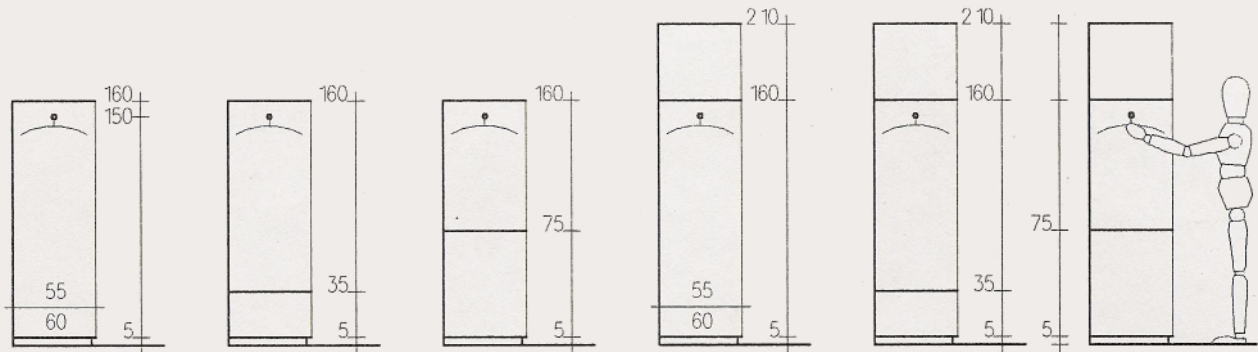
embutir

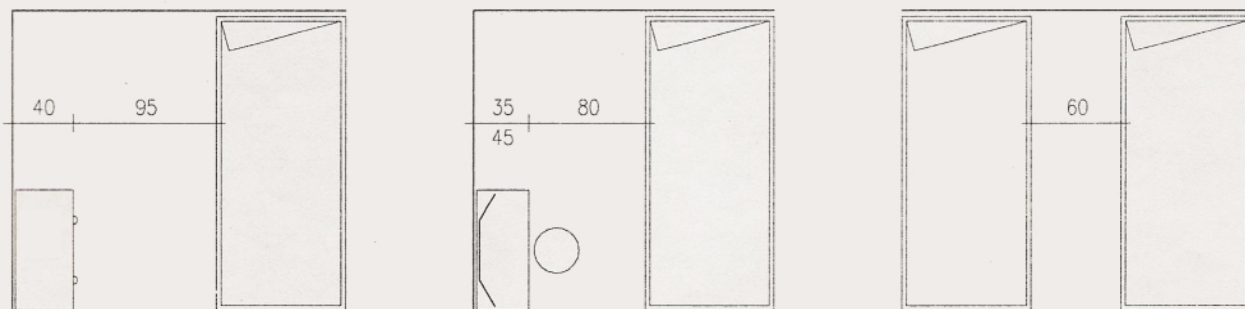
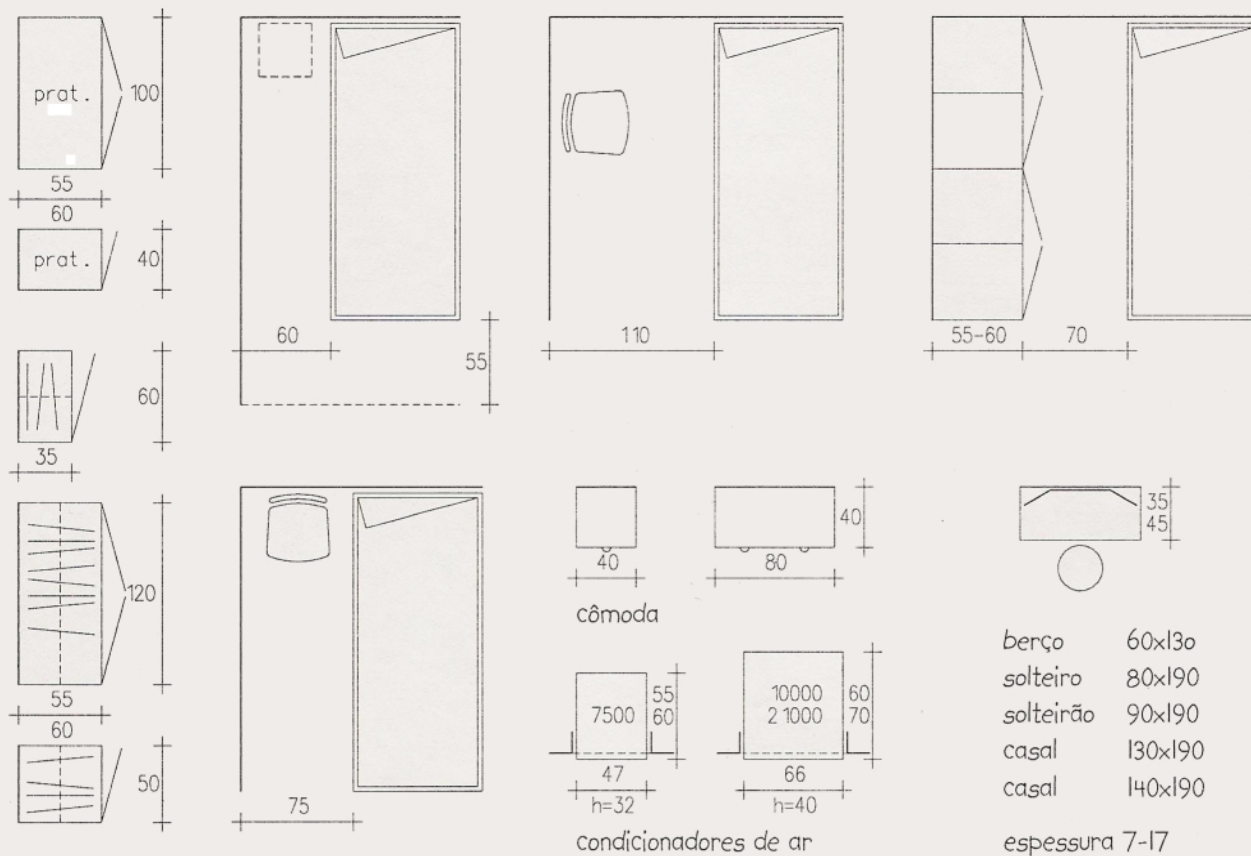
embutir

sobrepor

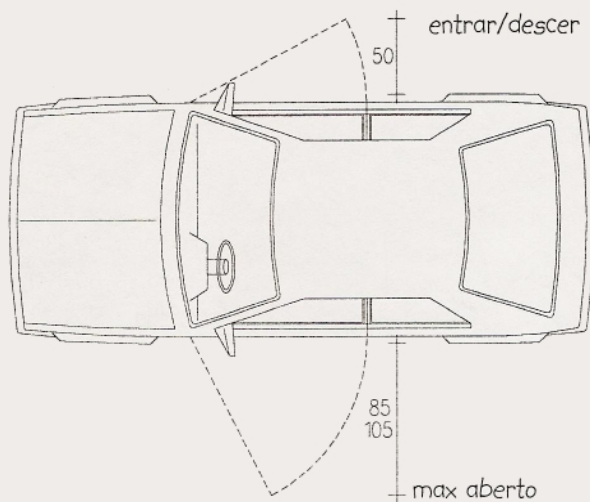
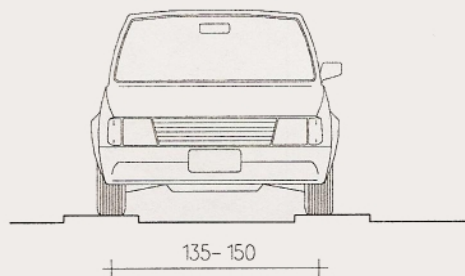
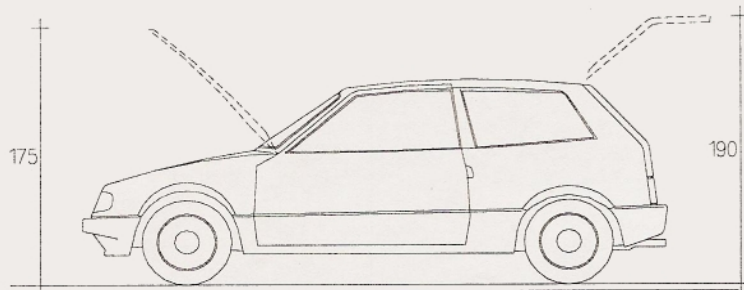
semi-encaixe









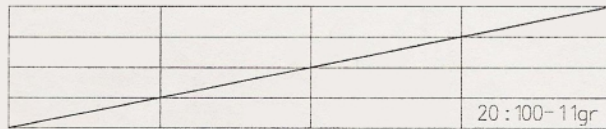
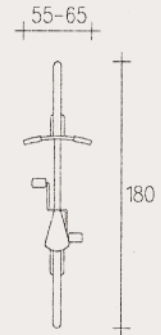
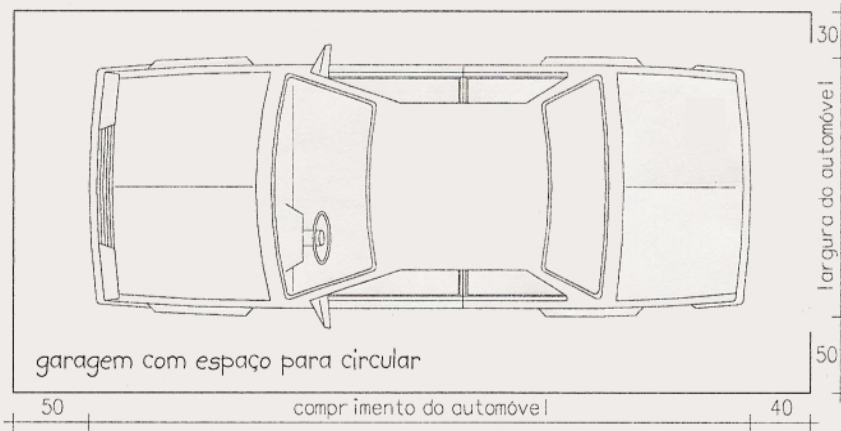
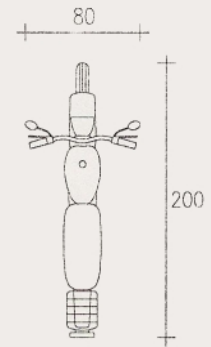
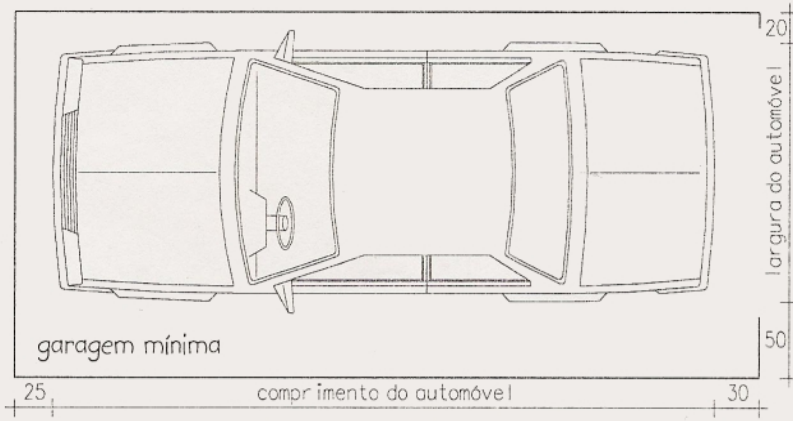


pequeno

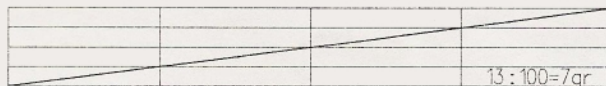
médio

grande

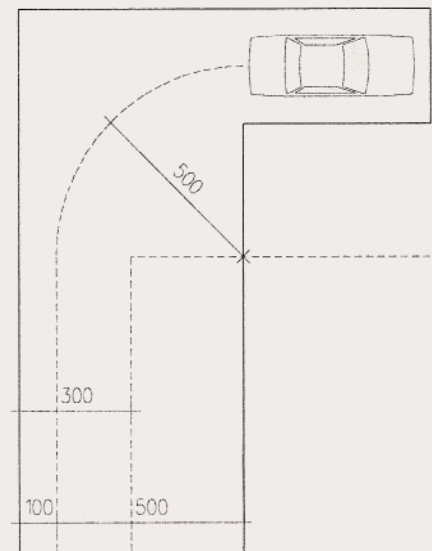
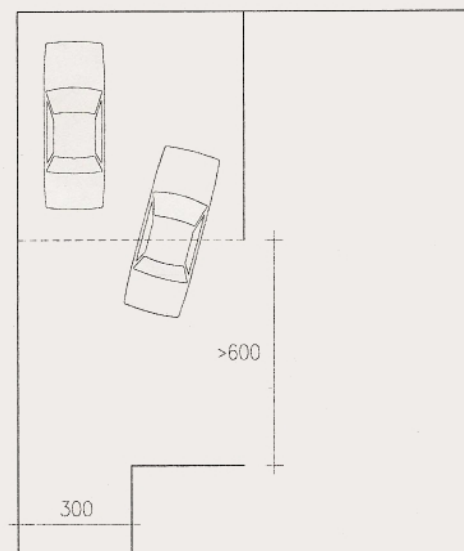
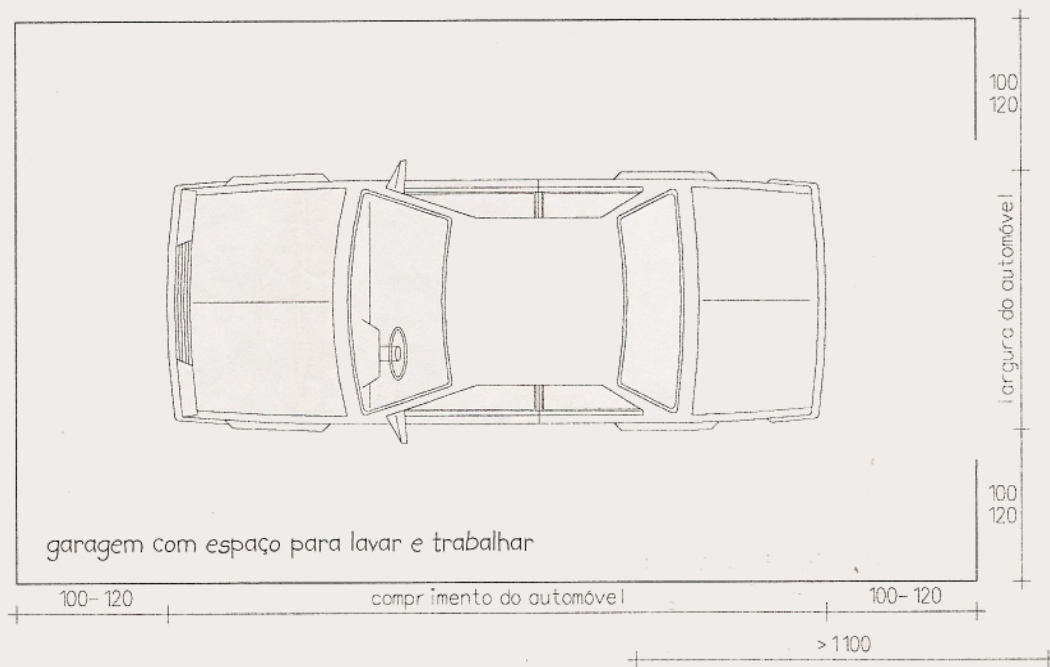
ka	362 x 163	gol	388 x 163	besta	469 x 169
uno	365 x 155	corsa	403 x 161	chevr.510	479 x 169
palio	373 x 161	Kombi	450 x 172	asia/topic	525 x 169

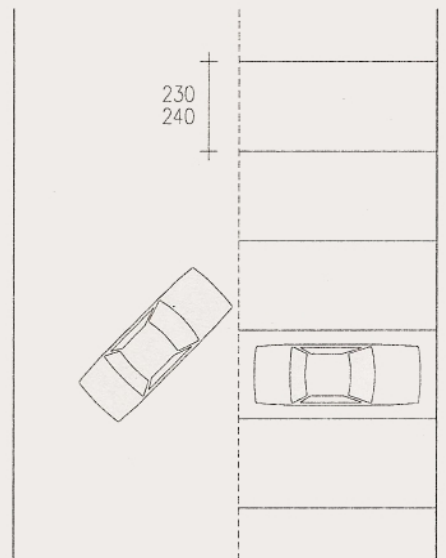
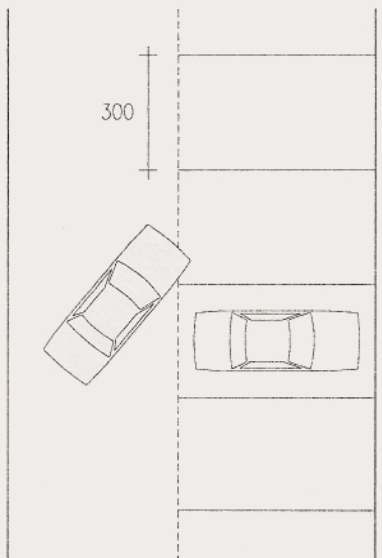
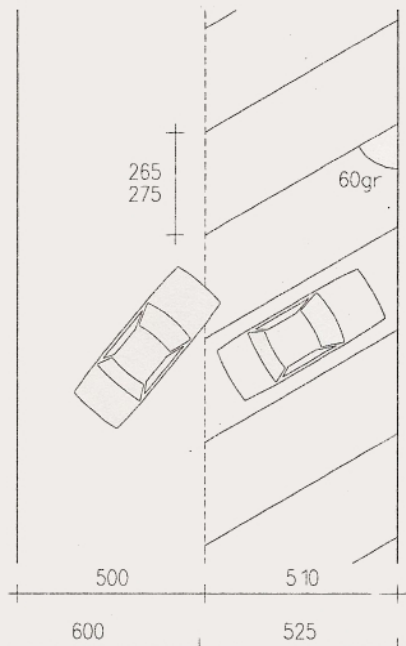
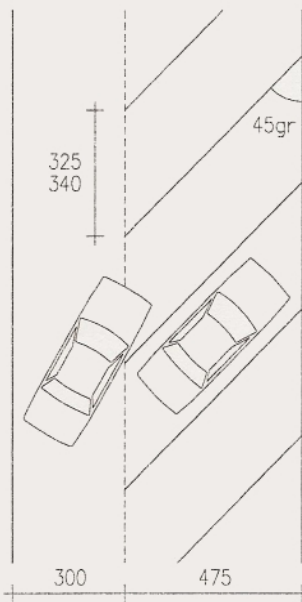
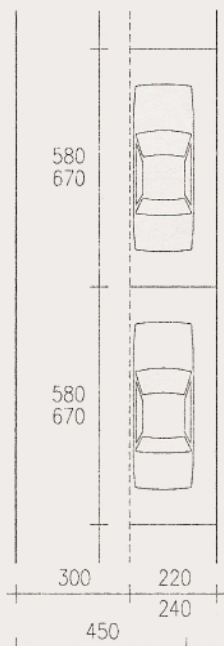


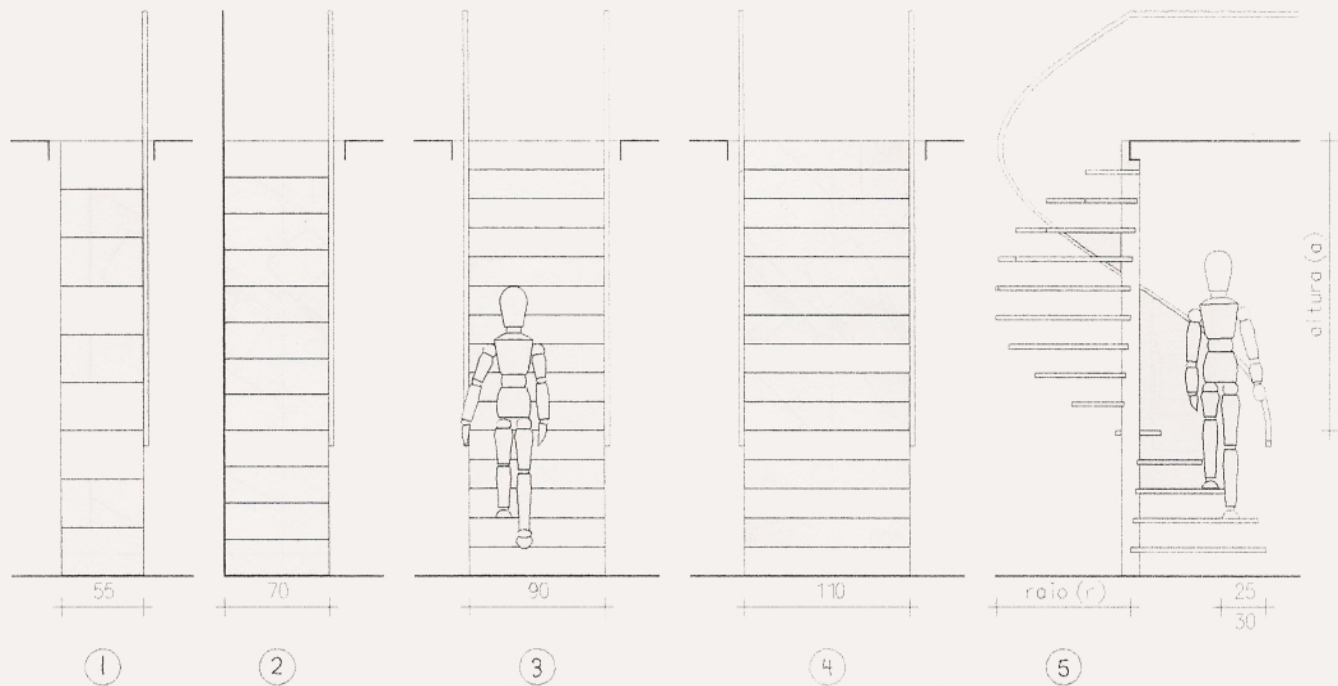
rampa max.  
para automóveis



rampa normal  
para automóveis

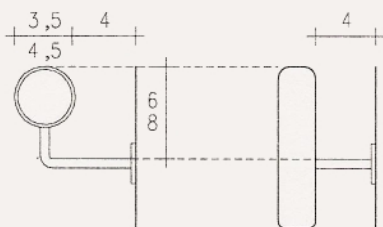






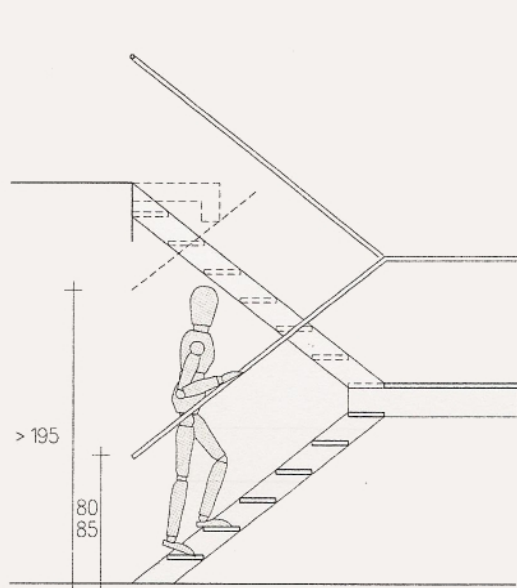
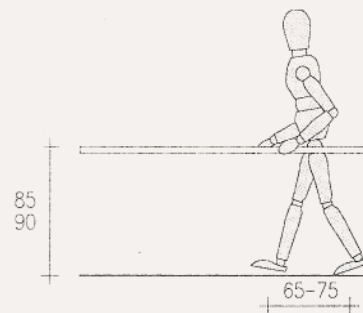
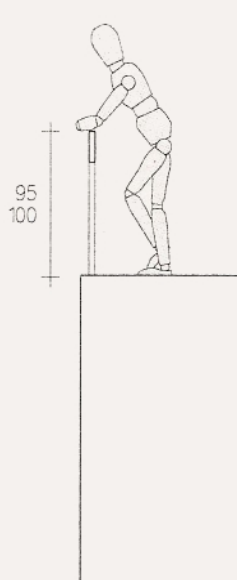
cotas medindo entre os corrimãos

- ① largura mínima p/ escadas subordinadas
- ② largura mínima p/ escadas em residências unifamiliares
- ③ largura recomendável p/ escadas em residências unifamiliares
- ④ largura mínima p/ escadas p/passagem de 2 pessoas quando houver mais de 2 pavimentos
- ⑤ raio mínimo 70cm, p/ escadas helicoidais (para "r" e "a" ver tabelas nas páginas 30-35)



quando o lance da escada tiver mais de 5 degraus é recomendável colocar um corrimão.

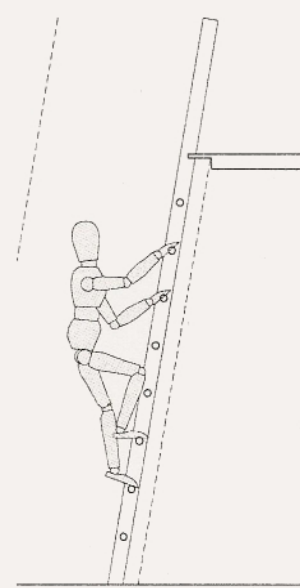
comprimento do lance da escada max 18 degraus.



escadas residenciais 25-45gr



escadas de serviço 50-75gr.

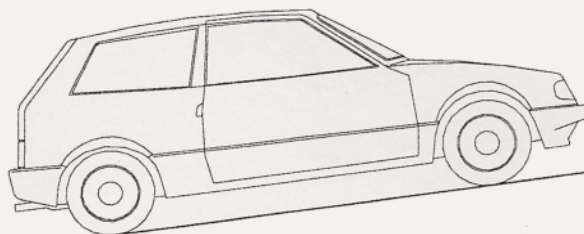


escadas de mão 75-90gr.

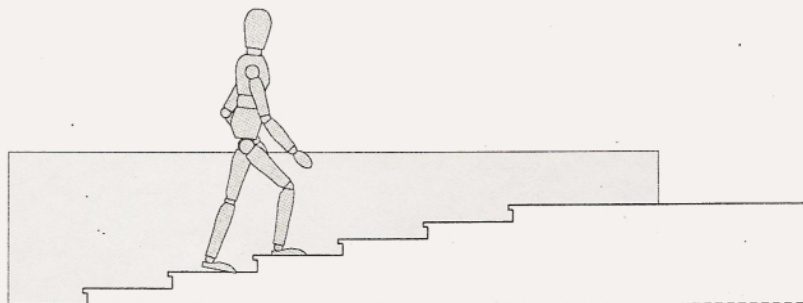




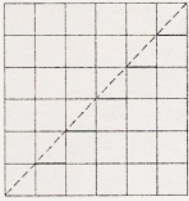
rampa max. para pedestres 14:100=8gr.  
rampa normal para pedestres 10:100=6gr.



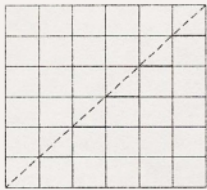
rampa max. para automóveis 20:100=11gr.  
rampa normal para automóveis 13:100=7gr.



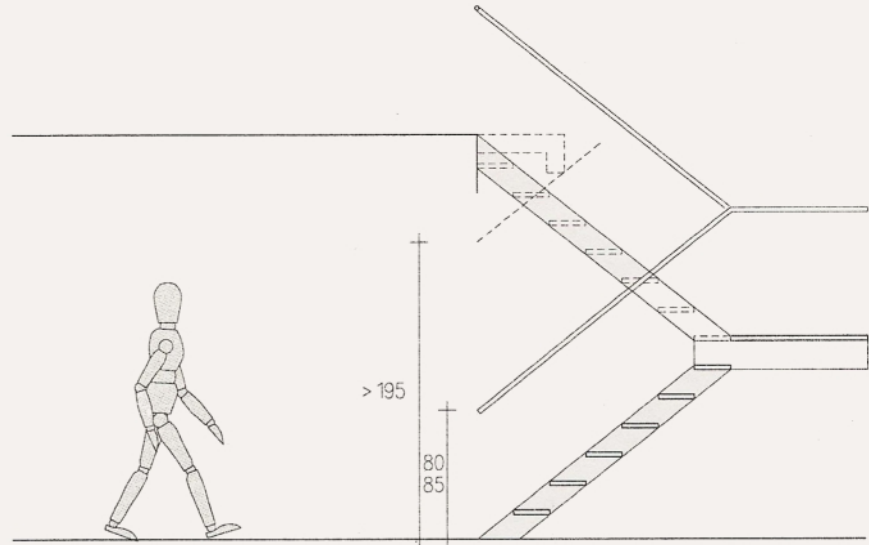
escadarias 7-20gr.



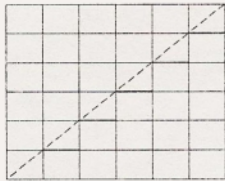
21x20=46gr.



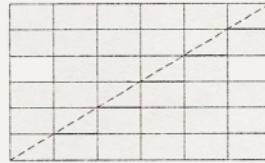
20x22=42gr.



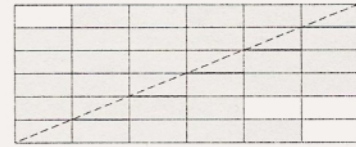
escadas residenciais 25-45gr



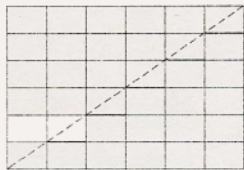
19x24=38gr.



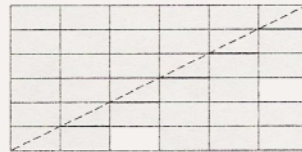
17x29=30gr.



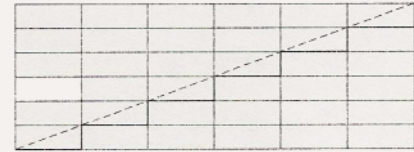
15x38=22gr.



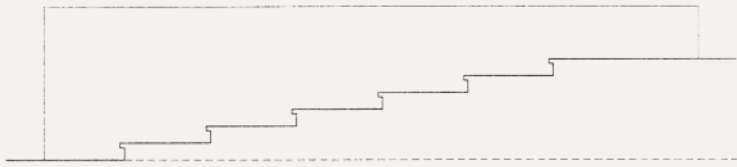
18x26=35gr.



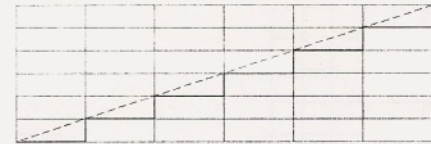
16x33=26gr.



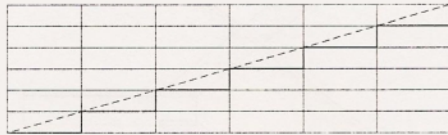
16x44=20gr.



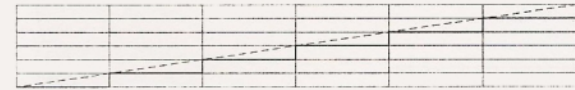
escadarias 7-20gr.



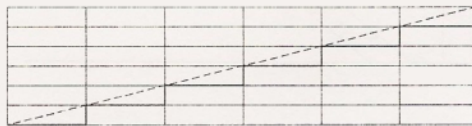
$$15 \times 46 = 18 \text{gr.}$$



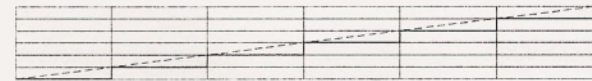
$$14 \times 49 = 16 \text{gr.}$$



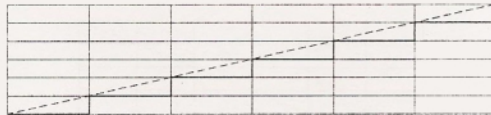
$$9 \times 62 = 8 \text{gr.}$$



$$13 \times 52 = 14 \text{gr.}$$

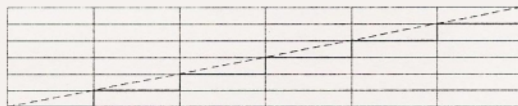


$$8 \times 64 = 7 \text{gr.}$$

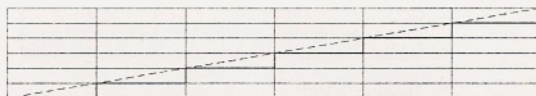


$$12 \times 54 = 13 \text{gr.}$$

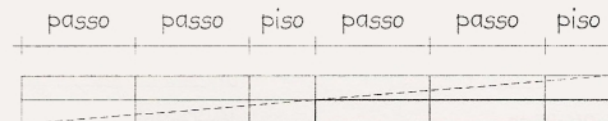
espelho	piso	inclinação
16	196	5
15	198	4
14	201	4
13	204	4
12	206	3
11	209	3
10	211	3
9	214	2
8	216	2

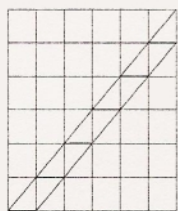


$$11 \times 57 = 11 \text{gr.}$$

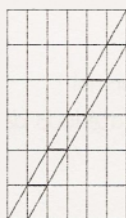


$$10 \times 59 = 10 \text{gr.}$$

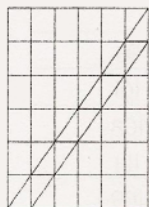




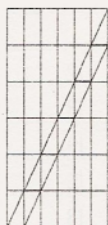
degr. 22  
incl. 50gr.  
corrimão 88  
livre 162



degr. 23  
incl. 60gr.  
corrimão 90  
livre 145



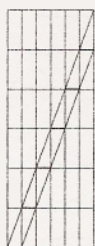
degr. 22  
incl. 55gr.  
corrimão 88  
livre 157



degr. 24  
incl. 65gr.  
corrimão 91  
livre 132

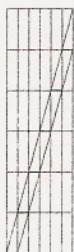


escadas de serviço 50-75gr.

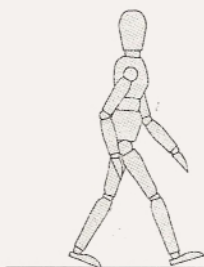


degr. 26  
incl. 70gr.  
corrimão 92  
livre 127

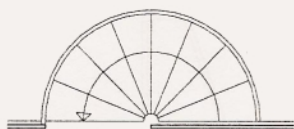
degrau cm	inclinação	livre cm
27-33	75gr	115
28-34	80gr	100
29-36	85gr	90
30-38	90gr	80



degr. 27  
incl. 75gr.  
corrimão 95  
livre 115



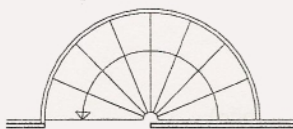
escadas de mão 75-90gr.



degrau normal

r. = raio (até lado de dentro do corrimão)

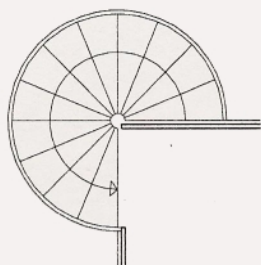
espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm
21	20	46gr	12	252	95
			13	273	101
			14	294	108
			15	315	114
20	22	42gr	13	260	109
			14	280	116
			15	300	123
			16	320	130
19	24	38gr	13	247	117
			14	266	124
			15	285	132
			16	304	140
18	26	35gr	14	252	133
			15	270	141
			16	288	149
			17	306	157
17	29	30gr	15	255	154
			16	272	163
			17	289	173
			18	306	182
16	33	26gr	16	256	183
			17	272	193
			18	288	204
			19	304	214



degrau mínimo (fórmula  $2e+lp=60\text{cm.}$ )  
 r. = raio (até lado de dentro do corrimão)

espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm
21	18	49gr	12	252	88
			13	273	94
			14	294	99
			15	315	105
20	20	45gr	13	260	101
			14	280	108
			15	300	114
			16	320	120
19	22	41gr	13	247	109
			14	266	116
			15	285	123
			16	304	130
18	24	37gr	14	252	124
			15	270	132
			16	288	140
			17	306	147
17	26	33gr	15	255	141
			16	272	149
			17	289	157
			18	306	166
16	28	30gr	16	256	159
			17	272	168
			18	288	177
			19	304	185

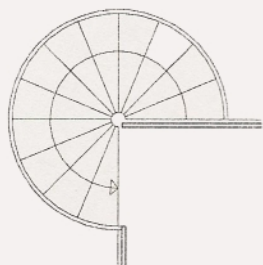




degrau normal

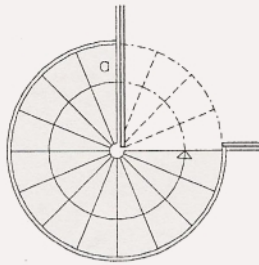
r. = raio (até lado de dentro do corrimão)

espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm
21	20	46gr	12	252	72
			13	273	76
			14	294	80
			15	315	84
20	22	42gr	13	260	81
			14	280	86
			15	300	90
			16	320	95
19	24	38gr	13	247	86
			14	266	91
			15	285	96
			16	304	101
18	26	35gr	14	252	97
			15	270	102
			16	288	108
			17	306	113
17	29	30gr	15	255	111
			16	272	117
			17	289	123
			18	306	130
16	33	26gr	16	256	130
			17	272	137
			18	288	144
			19	304	151



degrau mínimo (fórmula  $2e+1p=60\text{cm.}$ )  
 r. = raio (até lado de dentro do corrimão)

espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm
21	18	49gr	13	273	71
			14	294	75
			15	315	78
20	20	45gr	13	260	76
			14	280	80
			15	300	84
19	22	41gr	16	320	89
			13	247	81
			14	266	86
18	24	37gr	15	285	90
			16	304	95
			14	252	91
17	26	33gr	15	270	96
			16	288	101
			17	306	106
			15	255	102
16	28	30gr	16	272	108
			17	289	113
			18	306	119
			16	256	114
16	28	30gr	17	272	120
			18	288	126
			19	304	132

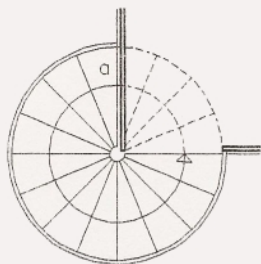


degrau normal

r. = raio (até lado de dentro do corrimão)

a. = altura até o piso do pavimento sup.

espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm	a. cm
21	20	46gr	15	315	70	221
20	22	42gr	15	300	74	210
			16	320	78	225
19	24	38gr	15	285	78	199
			16	304	82	214
18	26	35gr	16	288	87	202
			17	306	91	216
17	29	30gr	17	289	99	204
			18	306	103	217
16	33	26gr	18	288	114	204
			19	304	120	216



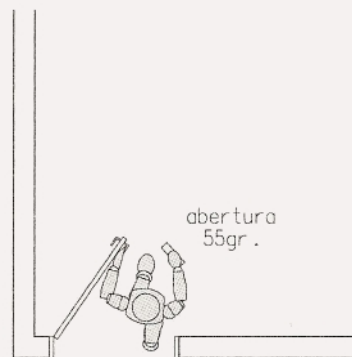
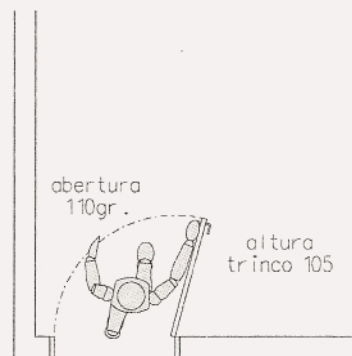
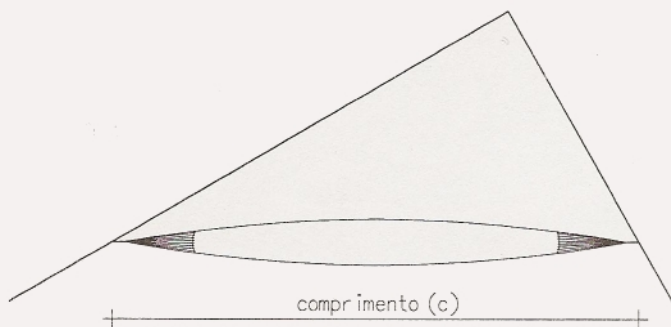
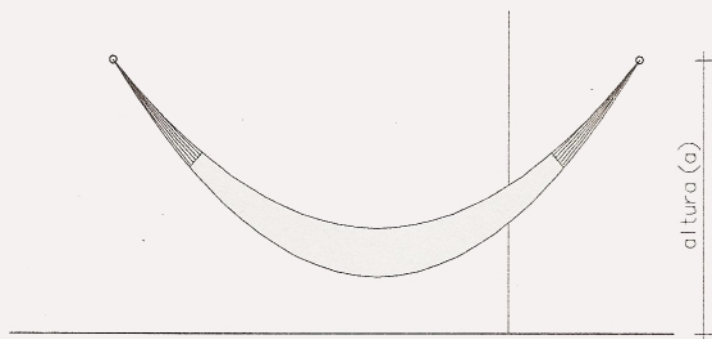
degrau mínimo (fórmula  $2e+lp=60\text{cm.}$ )

r. = raio (até lado de dentro do corrimão)

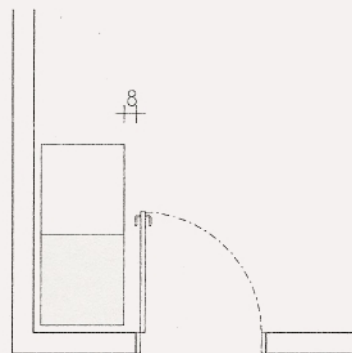
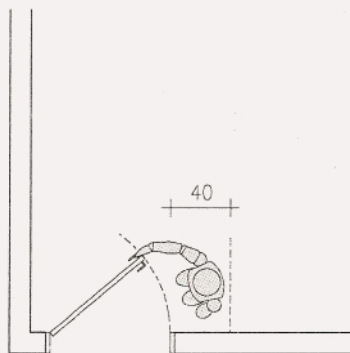
a. = altura até o piso do pavimento sup.

espelho cm	piso cm	inclinação	nr de degr.	pé dir. cm	r. cm	a. cm
20	20	45gr	15	300	70	210
			16	320	73	225
19	22	41gr	15	285	74	200
			16	304	78	214
18	24	37gr	16	288	82	203
			17	306	86	216
17	26	33gr	17	289	91	204
			18	306	95	217
16	28	30gr	18	288	101	204
			19	304	105	216



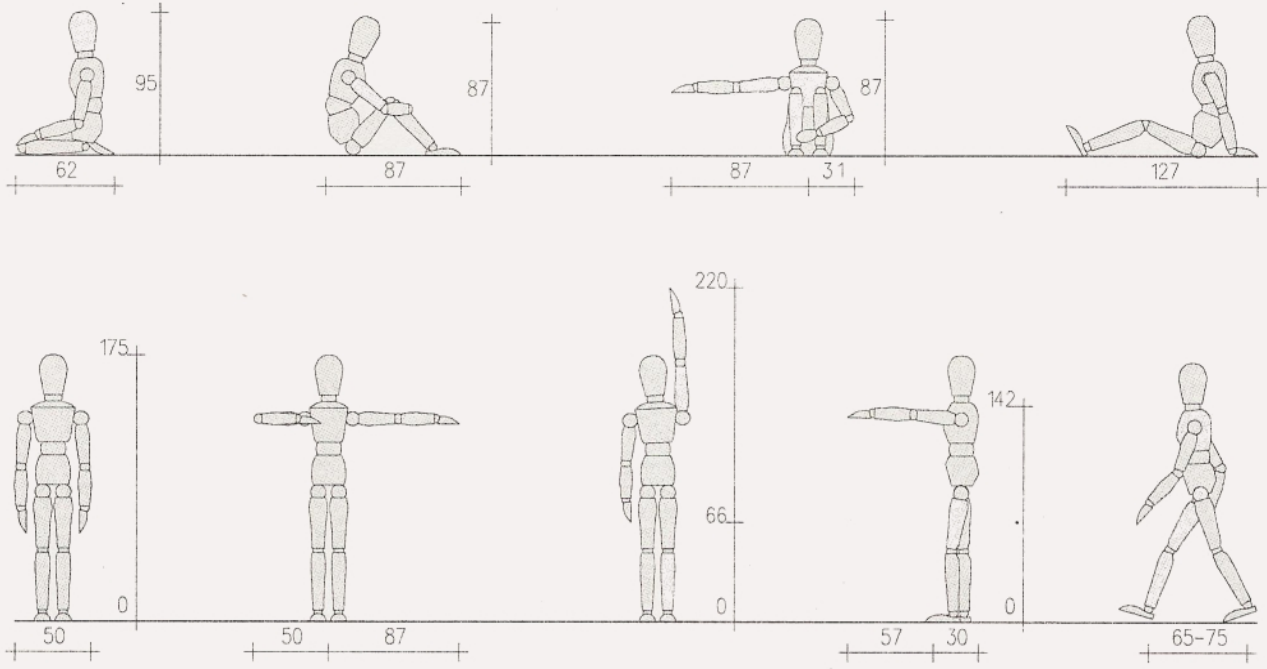


	c	a
rede peq. 370	270	190
	310	170
	350	135
rede med. 410	300	200
	340	180
	380	150
rede gr. 450	330	215
	370	195
	410	165

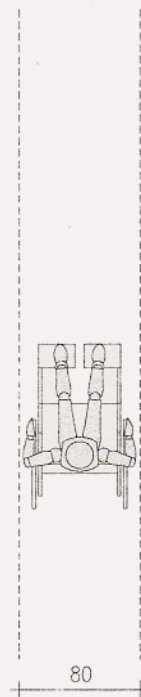
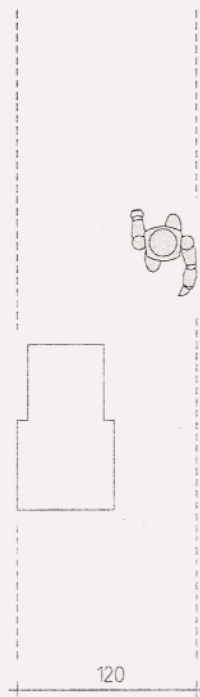
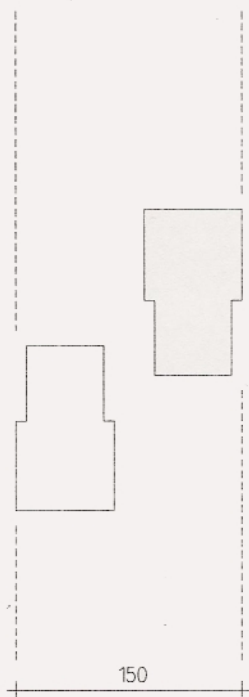
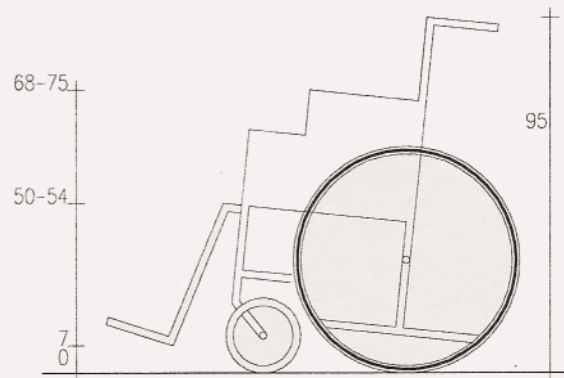
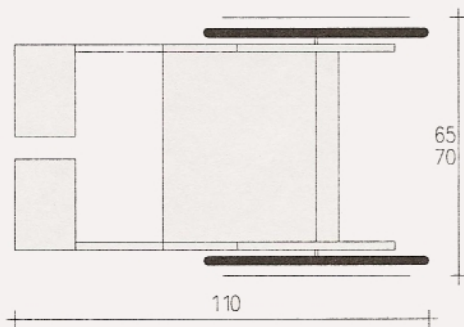


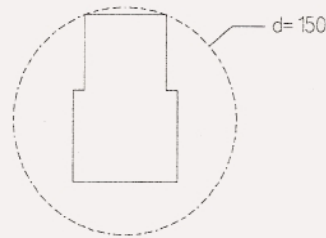
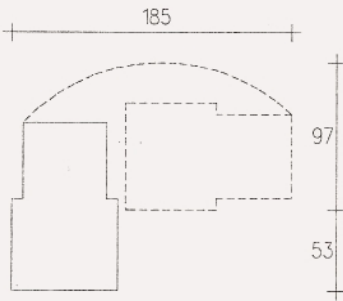
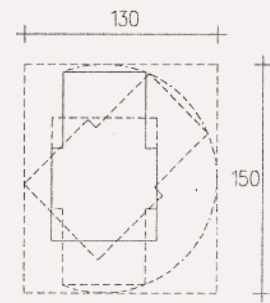
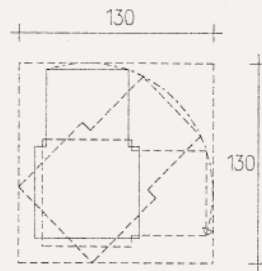
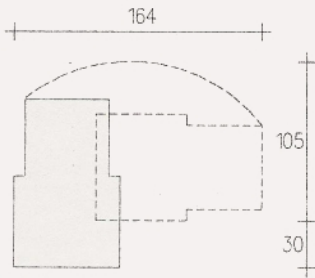




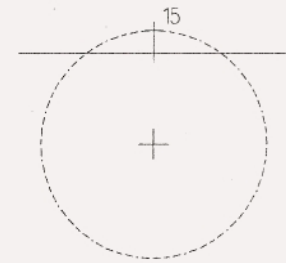


NBR 9050

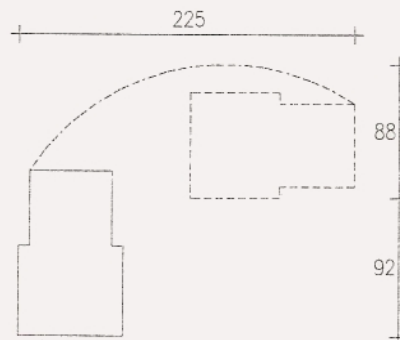
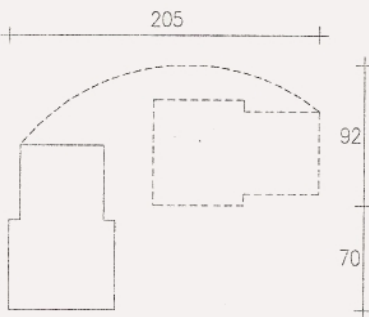




cada ambiente deve  
ter espaço p/ giro de  
360gr

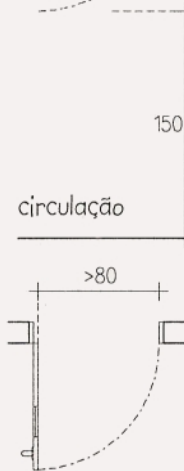
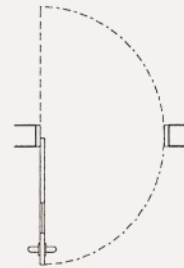
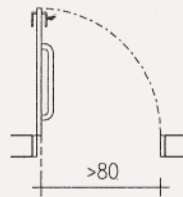
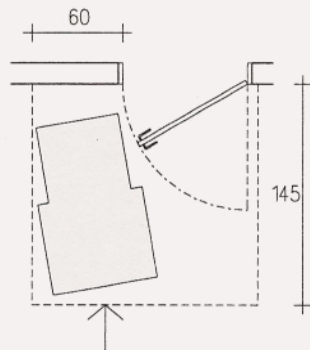
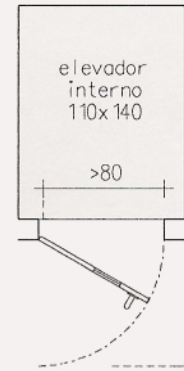
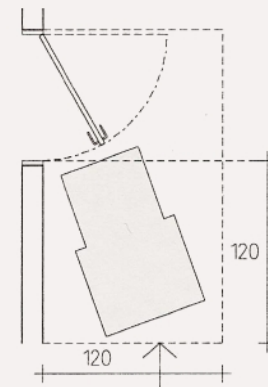
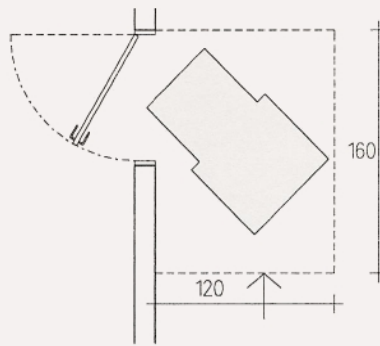
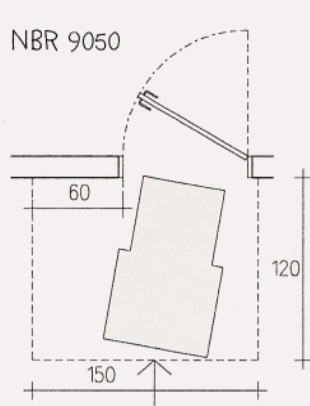


mesa  
bancada  
balcão de cozinha  
cama  
armário

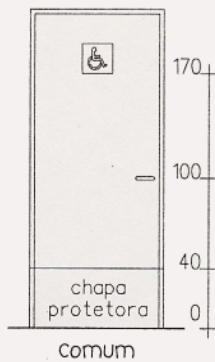


NBR 9050

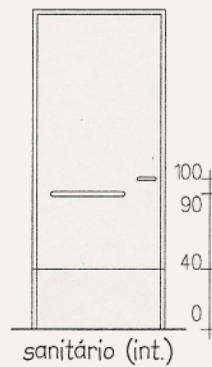
NBR 9050



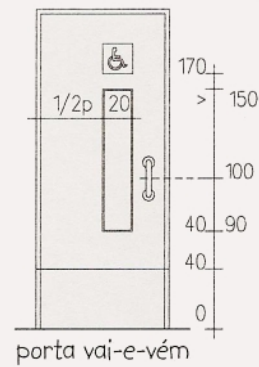
circulação



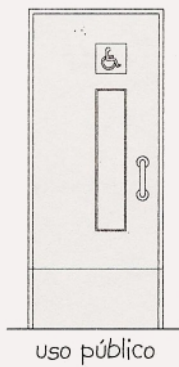
comum



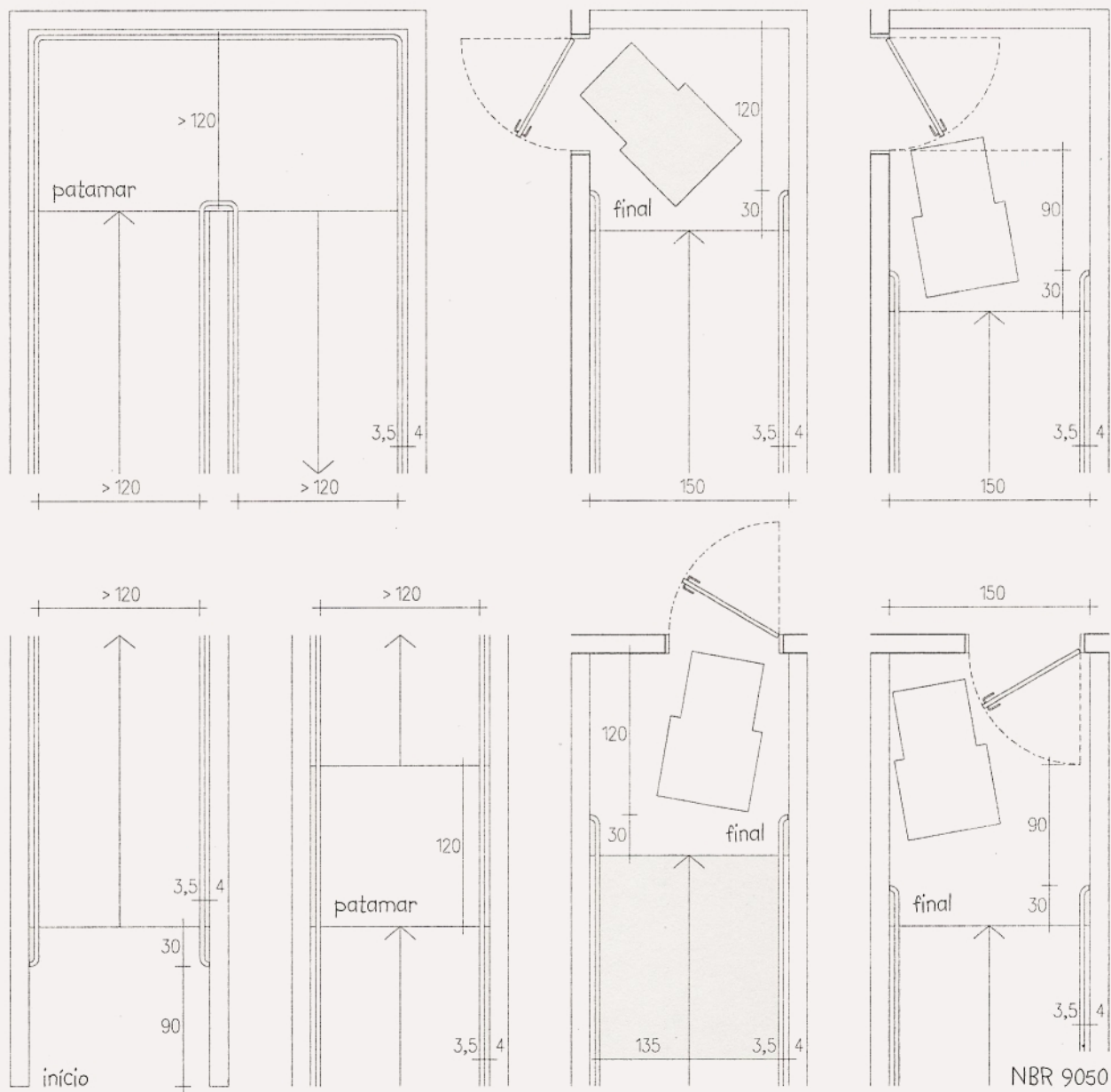
sanitário (int.)



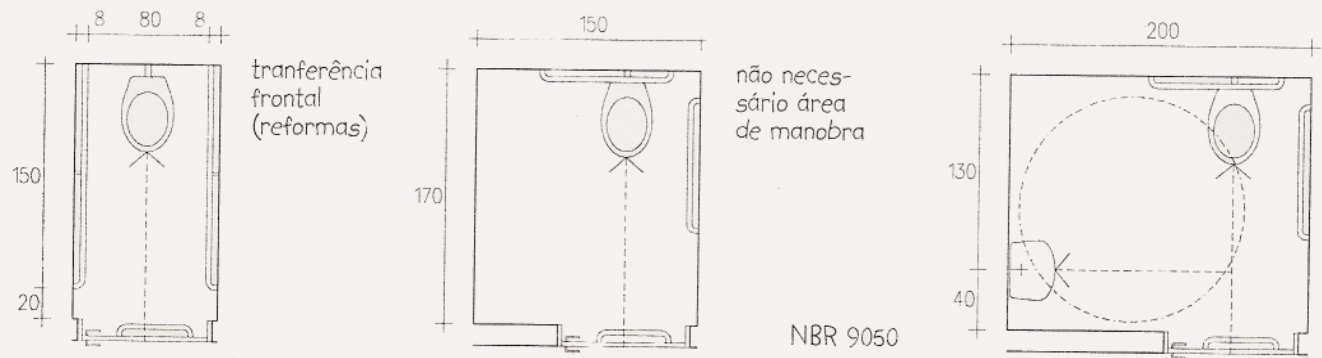
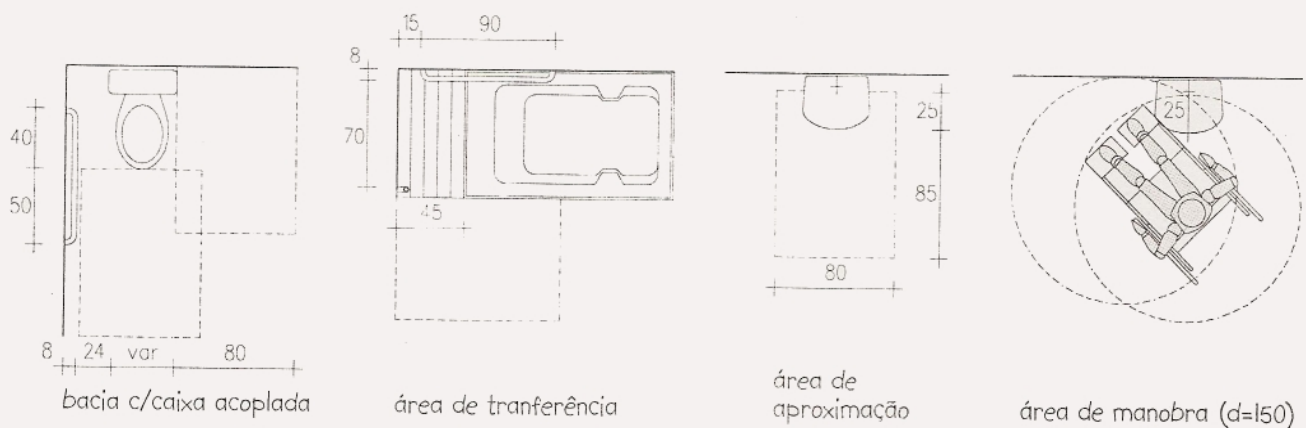
porta vai-e-vém

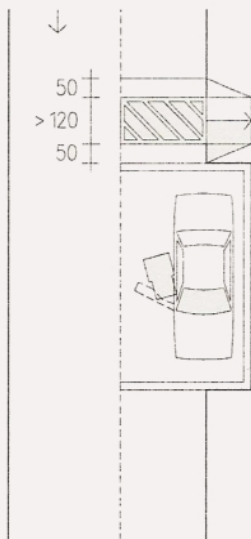
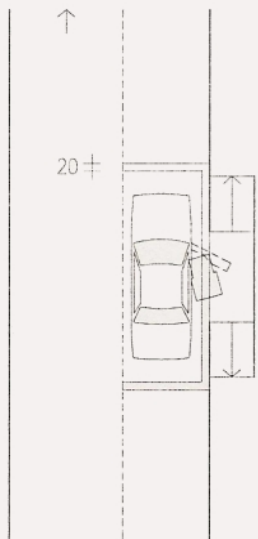
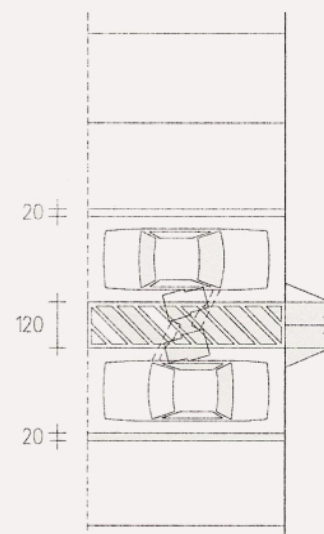
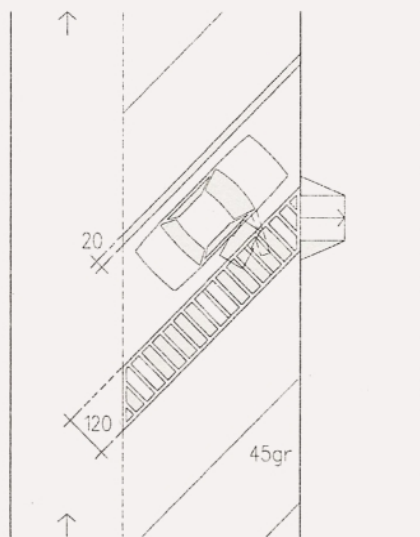
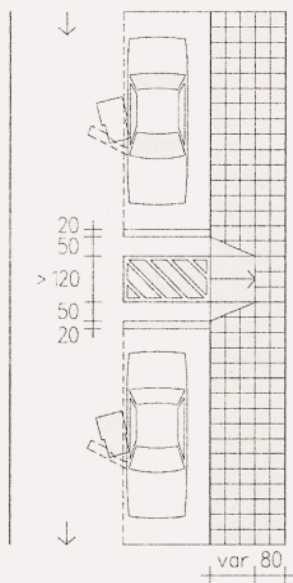


uso público









declividade máxima  
das rampas 1:8 (12,5%)  
para sinalização ver NBR 9050

passageo rebaixado

baia avançada no passageo

NBR 9050



rampa para cadeira de rodas 1 : 10

(a) max 8 seg. de 27,4cm, 6 seg. de 50cm ou 4 seg. de 75cm



rampa para cadeira de rodas 1 : 12

(a) max 10 seg. de 90cm



rampa para cadeira de rodas 1 : 16

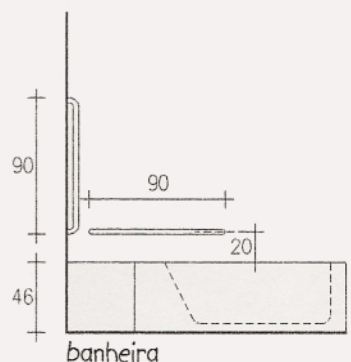
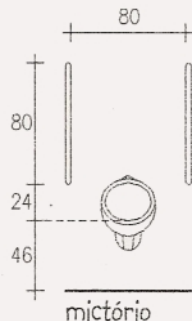
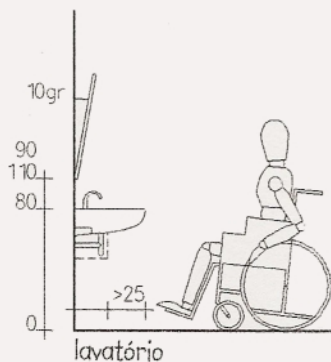
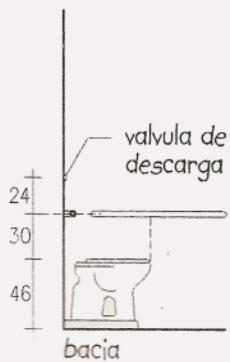
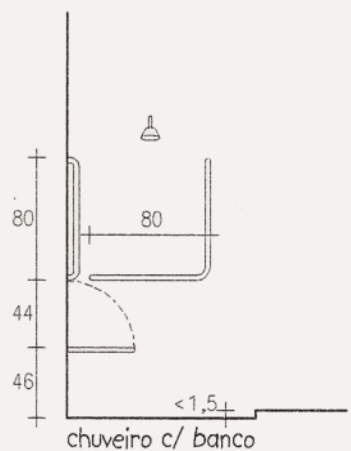
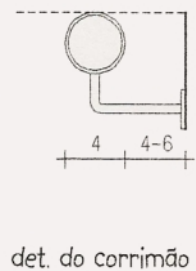
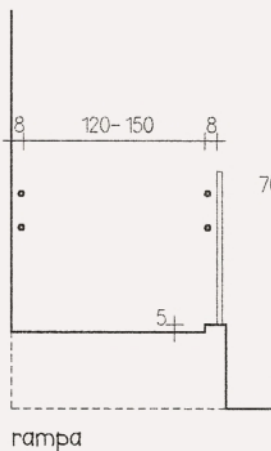
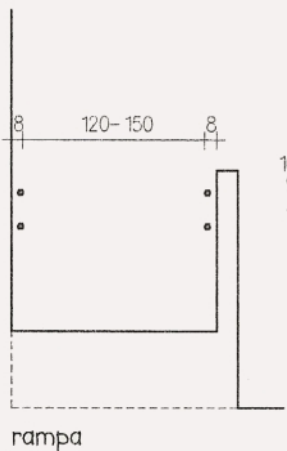
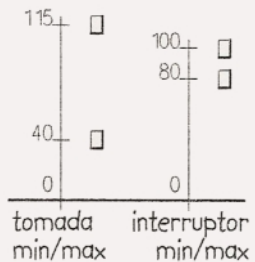
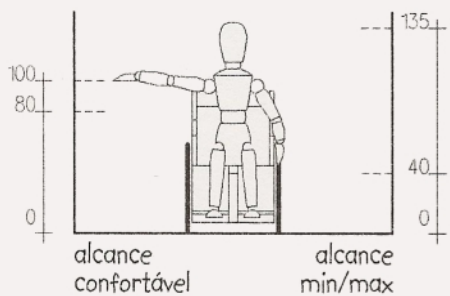
(a) max 12 seg. de 120cm ou 14 seg. de 100cm

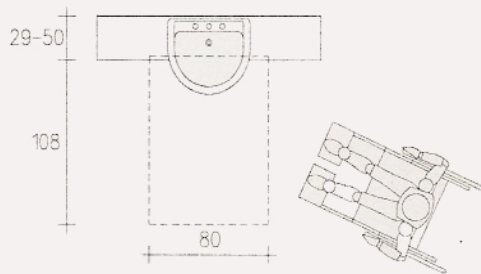
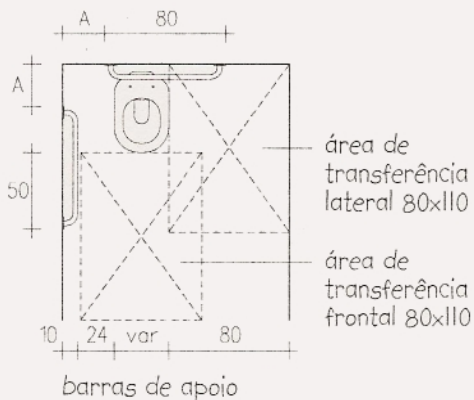


rampa para cadeira de rodas 1 : 20

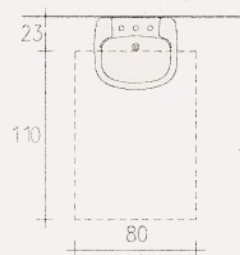
(a) max seg de 150cm

NBR 9050

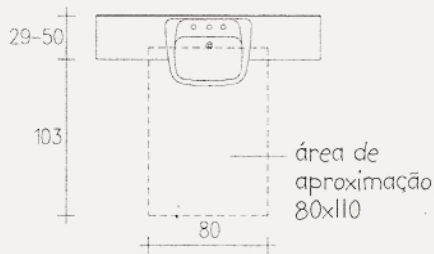
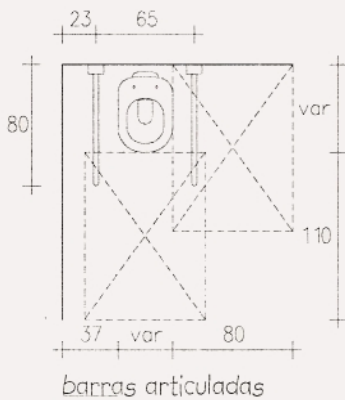




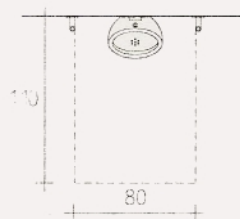
Deca L62



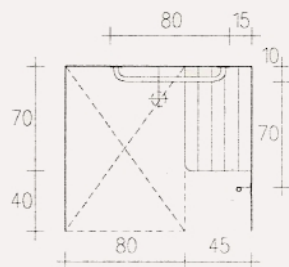
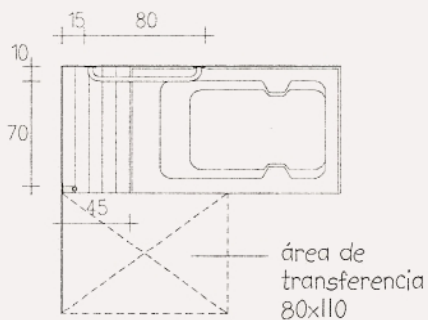
Deca L51+C51



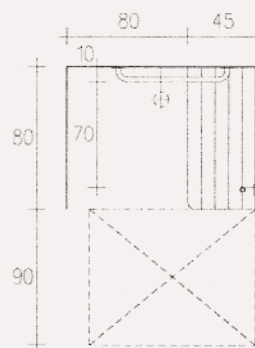
Deca L82

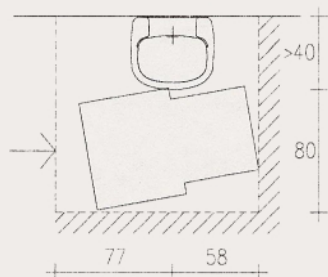


Deca M712

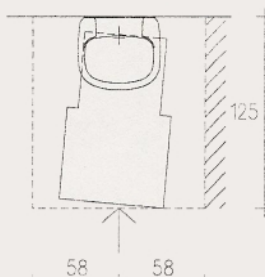


Peças Deca

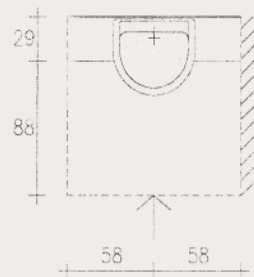




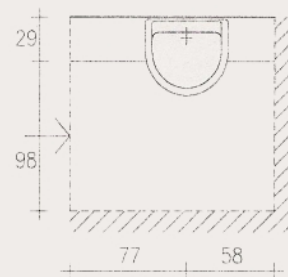
lavat. Deca L51+C51



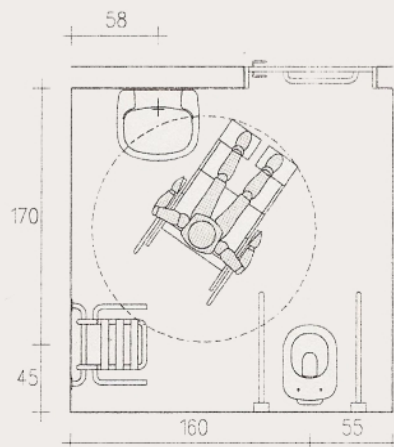
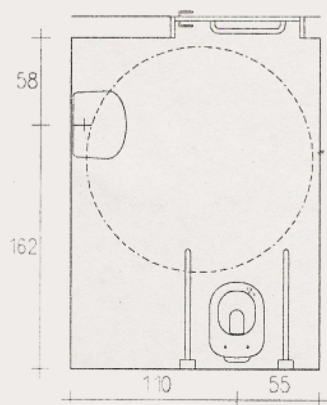
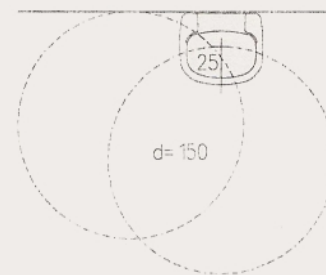
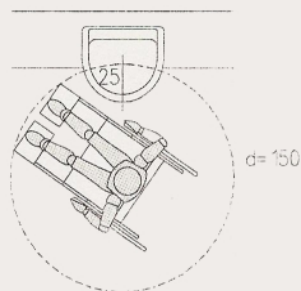
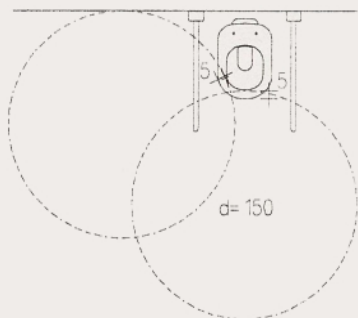
lavat. Deca L51+C51



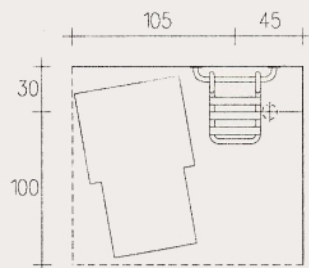
lavat. Deca L62



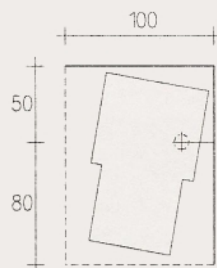
lavat. Deca L62



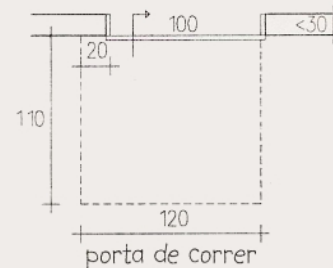
Peças Deca



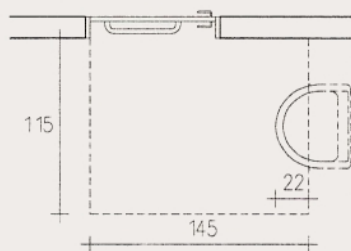
assento para chuveiro



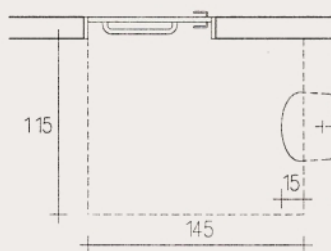
chuveiro



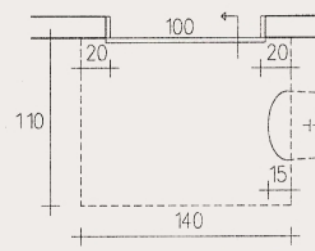
porta de correr



porta e lavatório

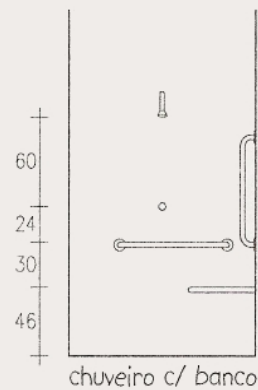
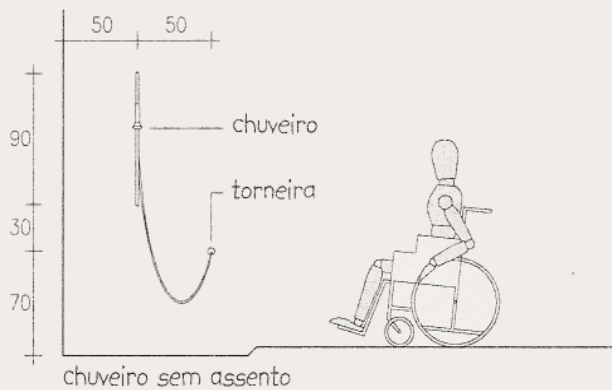
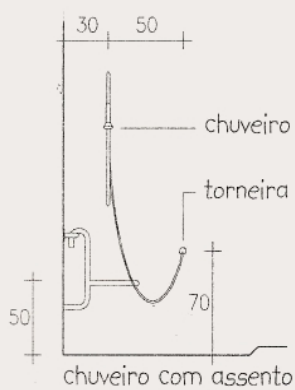
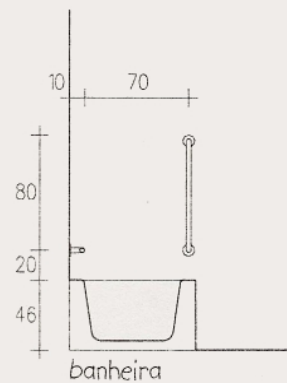
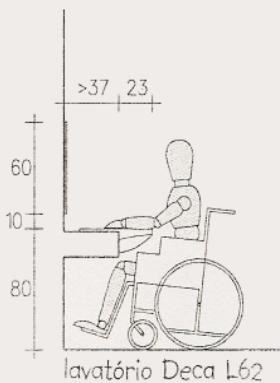
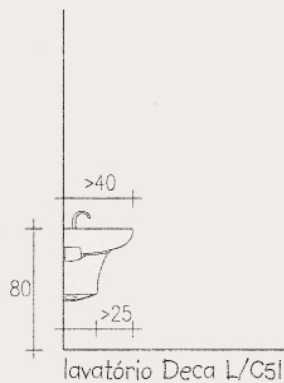
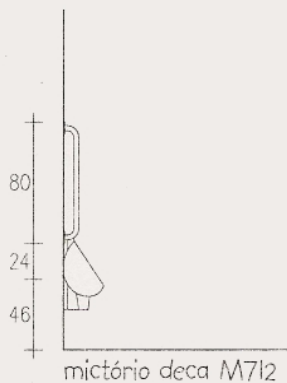
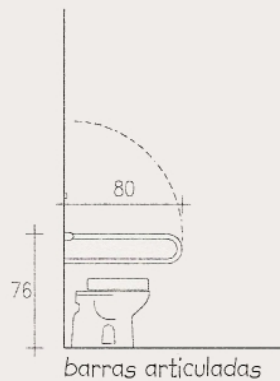
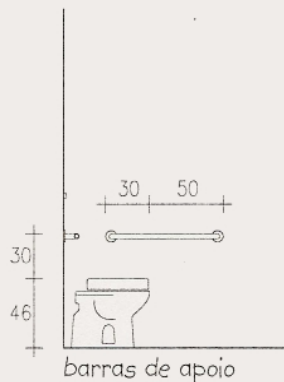
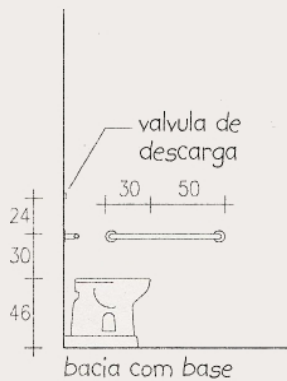


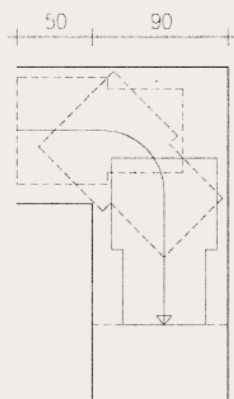
porta e lavatório



porta de correr e lavatório



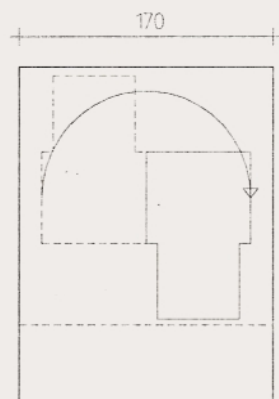
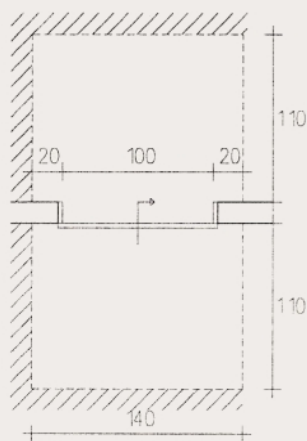




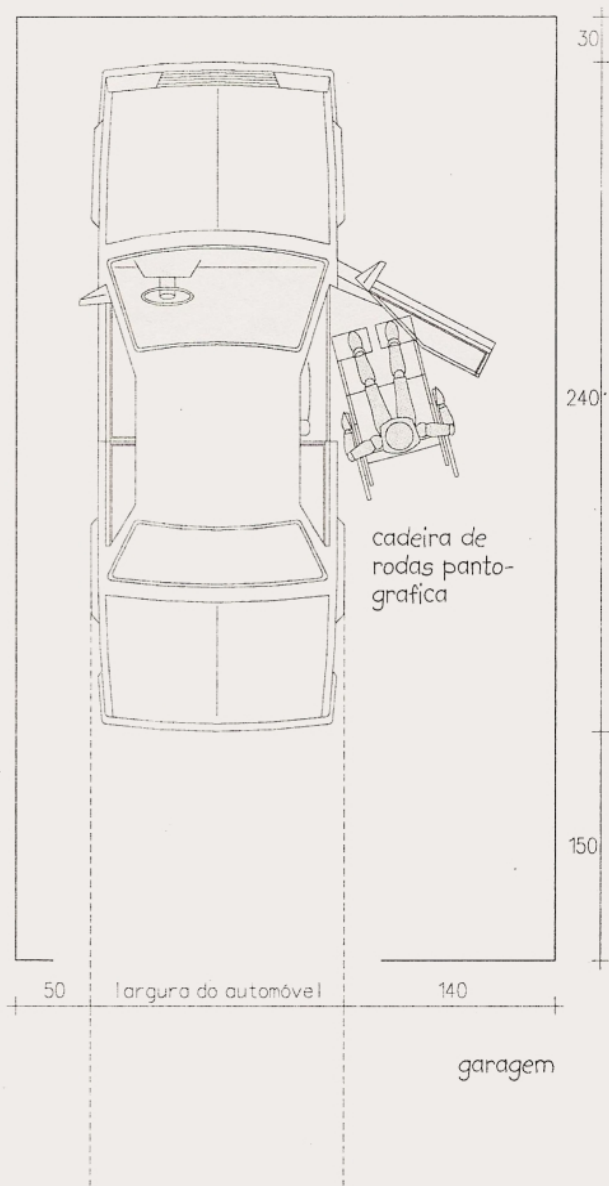
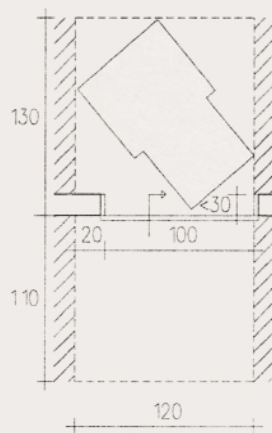
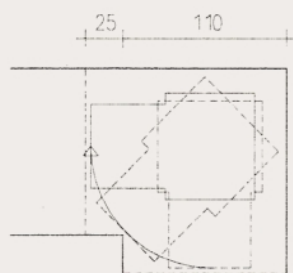
espaço mínimo  
p/ curva de 90gr

espaço mínimo  
p/ giro de 90gr

espaço mínimo  
necessário p/  
passagem por  
portas de correr

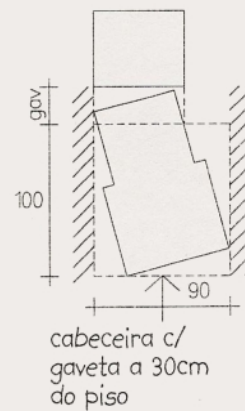
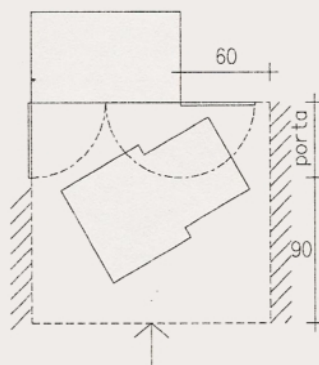
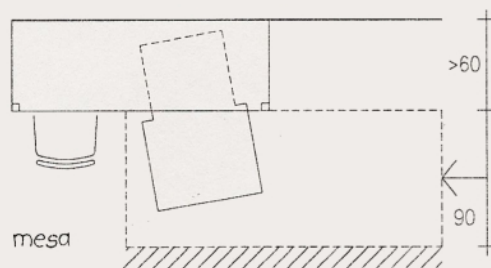
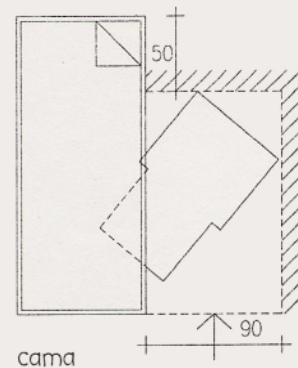
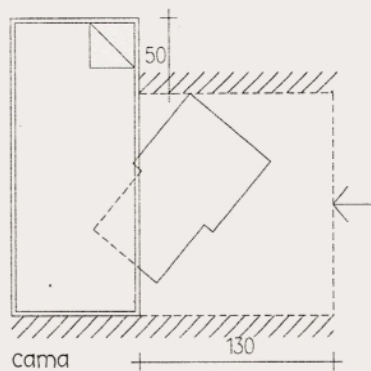
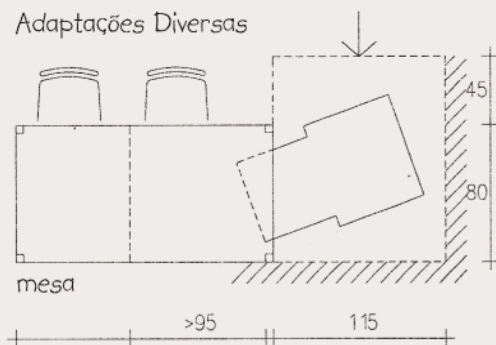


espaço mínimo p/ giro  
de 90gr ficando uma  
roda em ponto fixo



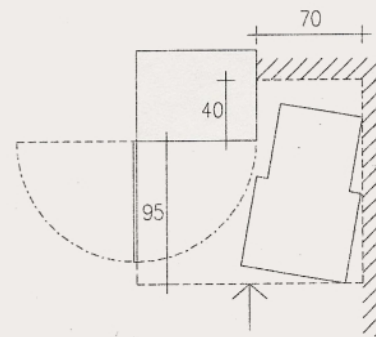
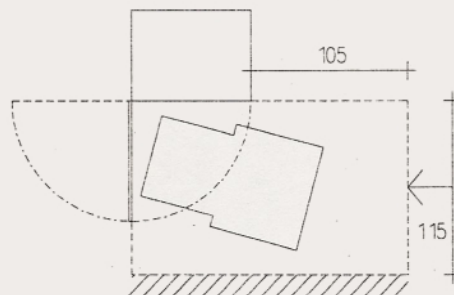
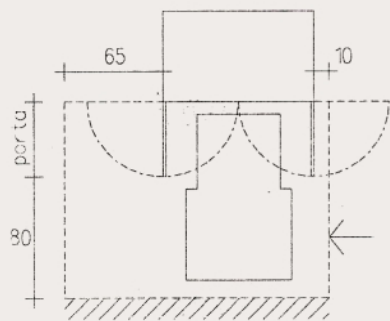
Adaptações Diversas

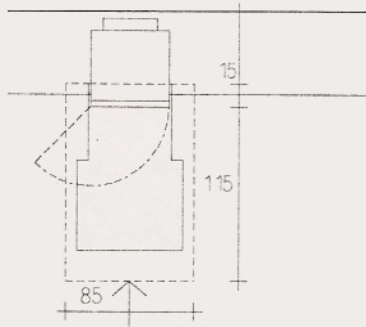
## Adaptações Diversas



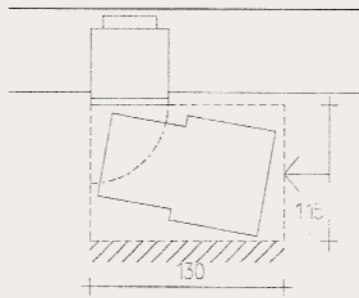
espaços mínimos necessários  
p/ o movimento da cadeira de  
rodas  
(→ = sentido da aproximação)

guarda-roupas  
e armários

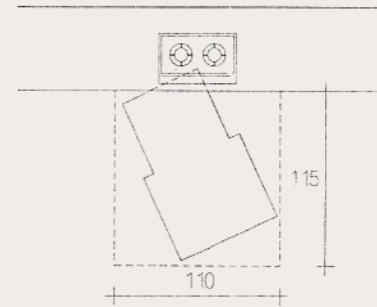




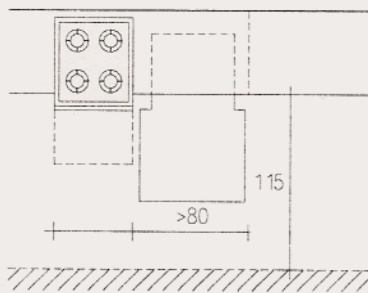
geladeira baixa  
(a 30cm livre do piso)



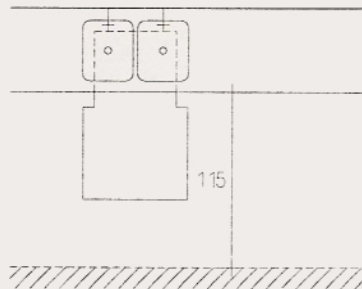
geladeira alta  
(a 70cm livre do piso)



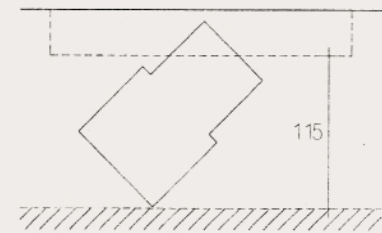
fogão  
(a 70cm livre do piso)



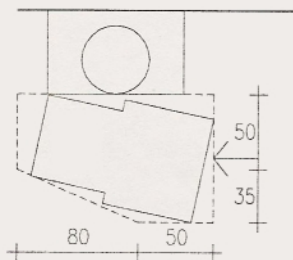
fogão c/ forno



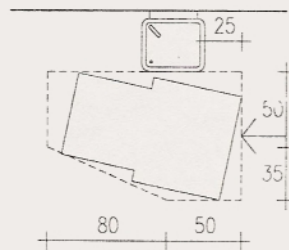
balcão e pia de cozinha  
(a 70cm livre do piso)



armário  
(a 70cm livre do piso)

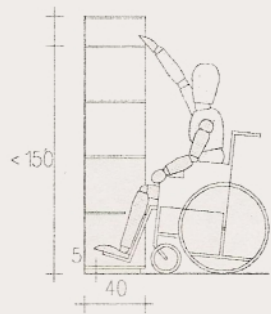


centrifuga, sexto de  
roupas e maq. de lav.

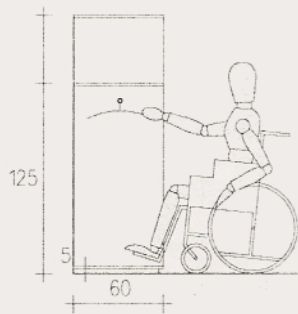


bebedouro

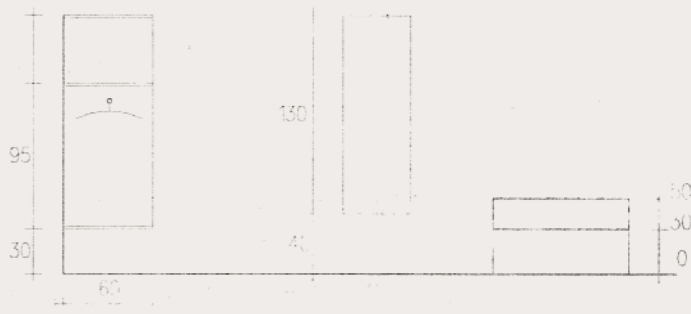
Adaptações Diversas



armário

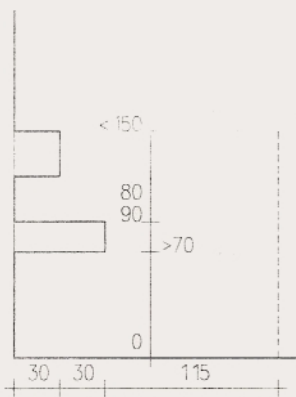


guarda-roupas

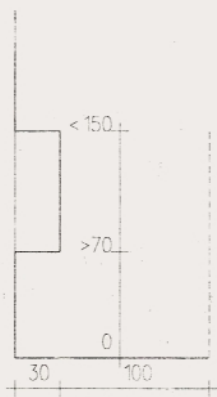


espelho

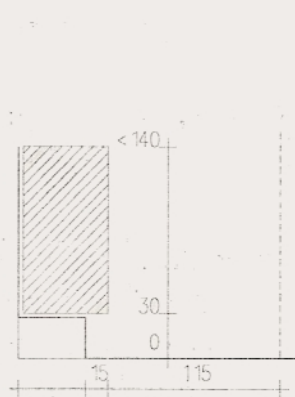
cama



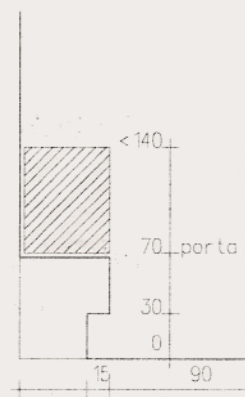
balcão c/ cuba e armários



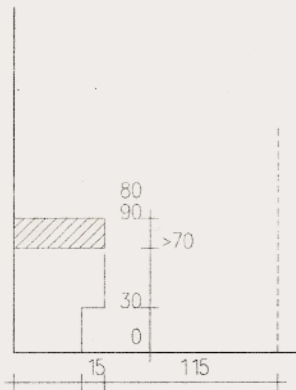
armários



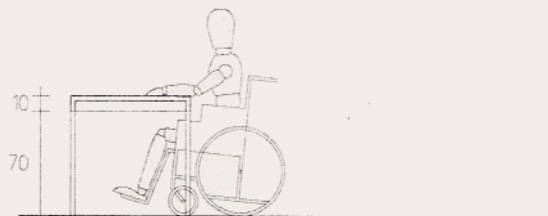
refrigerador



refrigerador ou forno



fogão



mesa

Adaptações Diversas

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