

Le lunghezze longitudinali raccomandate da Elekta e denominate "A" e "B" sono da confrontarsi con la somma "A+B" del bunker di Piacenza (vedere ultima pagina per stime); la lunghezza laterale raccomandata da Elekta e denominata "C" è da confrontarsi con quella del bunker di Piacenza (vedere ultima pagina per stime);

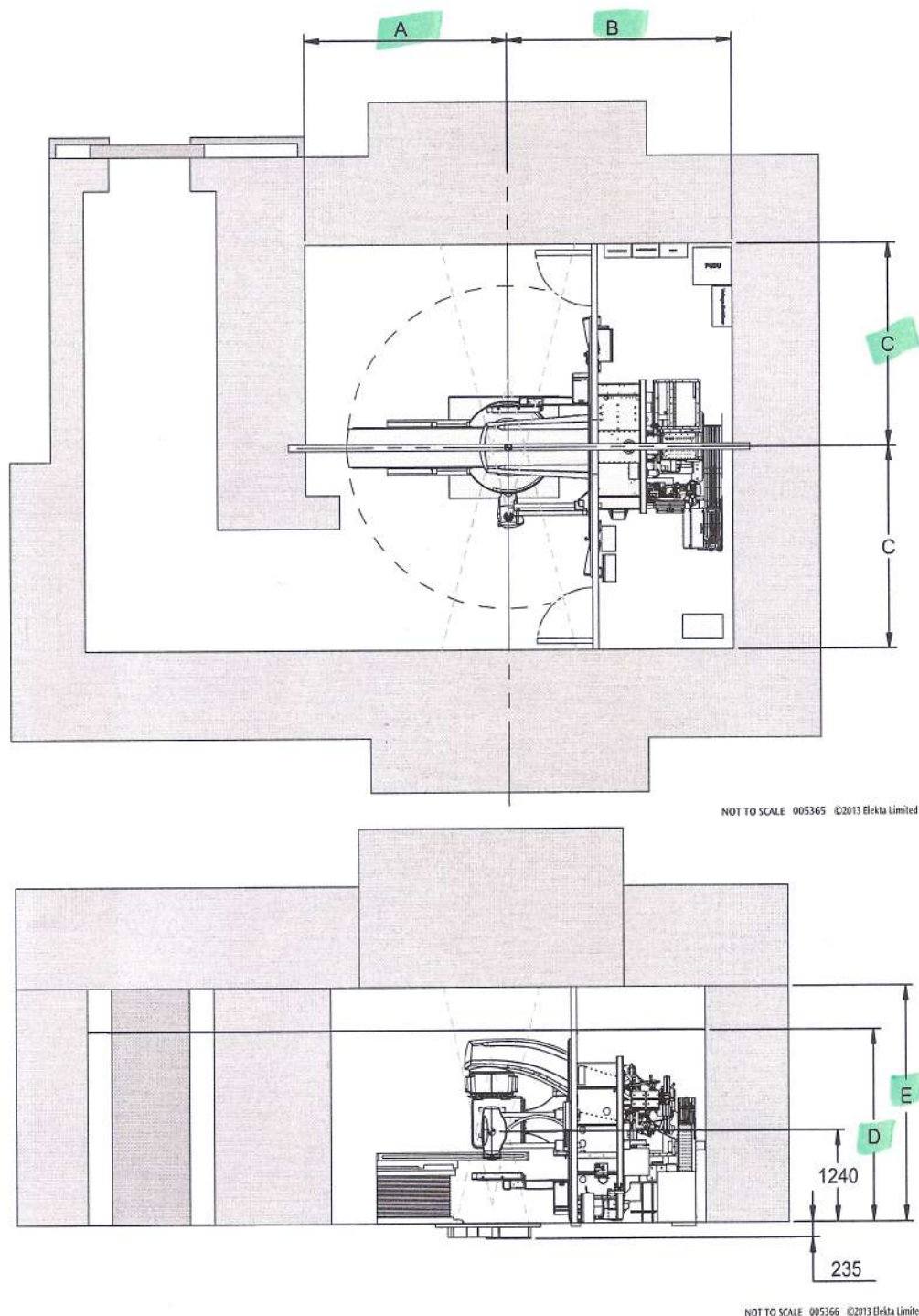


Figure 2.4 Example of treatment room construction for digital accelerator

La lunghezza verticale "D" dal pavimento al controsoffitto raccomandata da Elekta è da confrontarsi con quella del bunker di Piacenza (vedere ultima pagina per stime); la lunghezza verticale "E" dal pavimento all'inizio della barriera in calcestruzzo raccomandata da Elekta è da confrontarsi con quella del bunker di Piacenza (vedere ultima pagina per stime).

2.3.3 Recommended minimum room dimensions

Table 2.7 and Table 2.8 give the minimum dimensions of the treatment room, with usual clinical functionality. These dimensions do not include false walls and fixings, or furniture in the treatment room.

Table 2.7 Minimum treatment room dimensions allowing normal clinical functionality

Dimension		
A	Isocenter to front wall	2495 ¹
B	Isocenter to rear wall:	
	1 fascia door	3700 ¹
	2 fascia doors	3300 ¹
C	Isocenter to side wall:	
	With no fascia door	2400 ¹
	With fascia door	3000 ¹
D	Floor to false ceiling	2600
E	Floor to concrete ceiling	3200

¹ Dimensions A and C can be decreased but this can cause hazards and decrease clinical functionality. If the dimensions are decreased, a risk assessment must be done.

A number of assumptions are made:

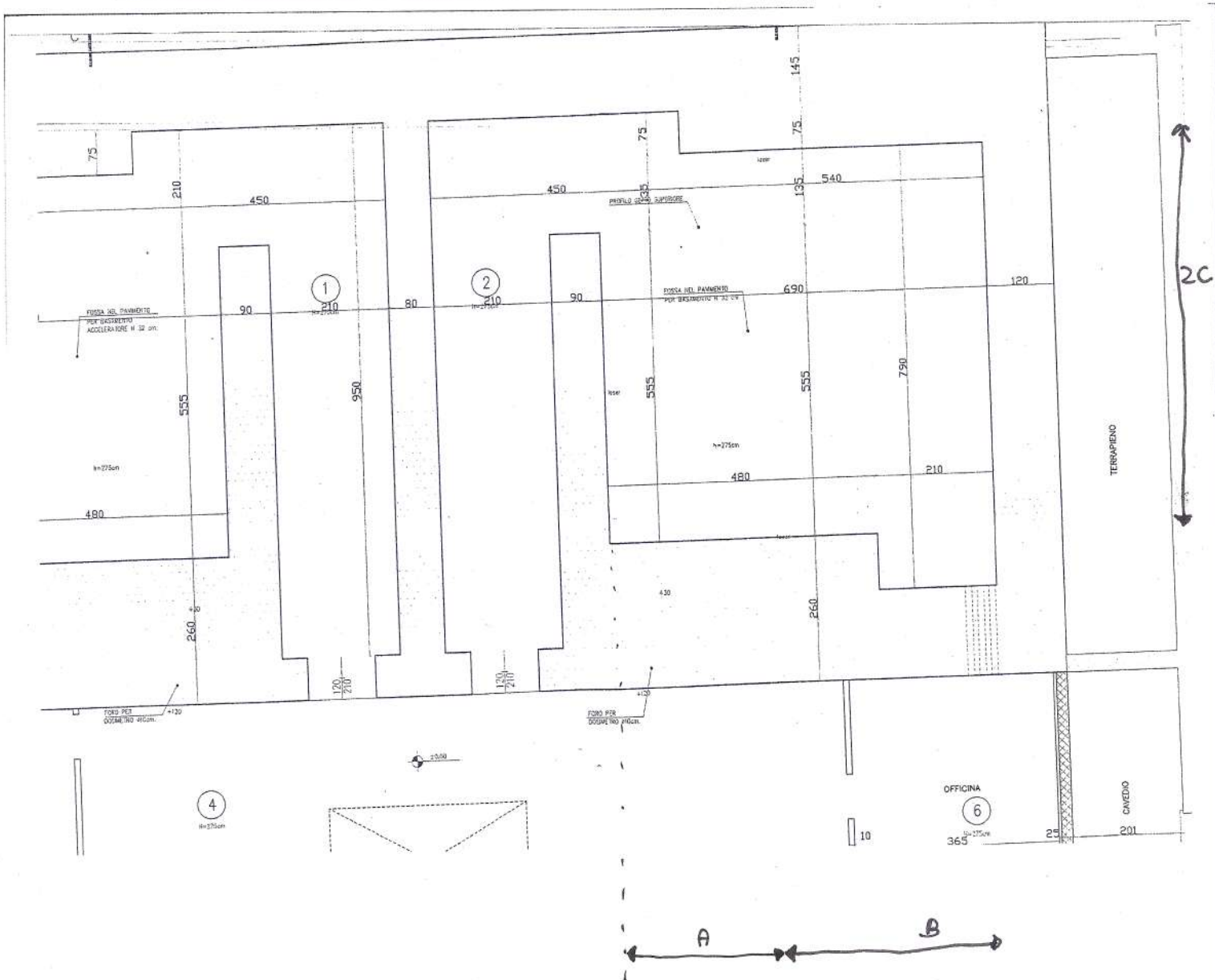
- The system is installed with a narrow cover set.
- Dimension **A** lets the treatment table be fully extended in the T direction (2390 mm), but with no lateral movement
- Dimension **B** can be reduced, but access in the equipment room behind the digital accelerator will be restricted.
- There is one door in the B-side of the fascia (this will require a larger isocenter to rear wall dimension of 3700 mm to allow access to the rear of the machine). Dimension **C** of 2400 mm lets the treatment table be fully extended in the T direction (2390 mm), but with no lateral movement.
- Dimension **C** does not let the modulator assembly pass through the fascia door during installation and maintenance.
- A single A-frame cannot be used for installation with dimension N being 2600 mm. An A-frame height of 2900 mm is necessary to lift the gantry drum onto the gantry base with a single A-frame. The false ceiling and central section of the client fascia must be removed if a single A-frame is to be used for installation. Alternatively, two smaller A-frames can be used to lift the gantry from each side. The smaller A-frames must be identical and less than 2540mm in height to move through the gap in the client fascia.

Some dimensions can be increased if necessary. For example, if the width of the fascia door is increased from 750 mm to 880 mm (to let the modulator assembly pass through during installation and maintenance), then dimension **C** will be 3100 mm.

Table 2.8 Minimum detailed dimensions for **C** for a two door fascia cover set

Half of fascia width	2000 mm
Door	880 mm
Door pillars	22 mm

Attuale Bonker Piscenza - Stima Elekta



$$\left. \begin{array}{l} A_{\text{Elekta}} = 2495 \\ B_{\text{Elekta}} = 3700 \end{array} \right\} (A+B)_{\text{Elekta}} = 6195$$

$$(A+B)_{\text{Piacenza}} = 6900$$

$$C_{\text{Elekta}} = 3000$$

$$C_{\text{piacenza}} = 3450$$

$$D_{Elekta} = 2600$$

$D_{\text{Piacenza}} = \begin{cases} 2730 & \text{ZONA CENTRALE} \\ 2500 & \text{ZONA AERAZIONE} \\ & + \text{LABIRINTO} \end{cases}$

$$E_{\text{Elekta}} = 3200$$

$$E_{\text{Piacenza}} = 3100$$

Le attuali barriere in calcestruzzo del bunker sono progettate per fotoni 18 MV; la porta per fotoni 6MV

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