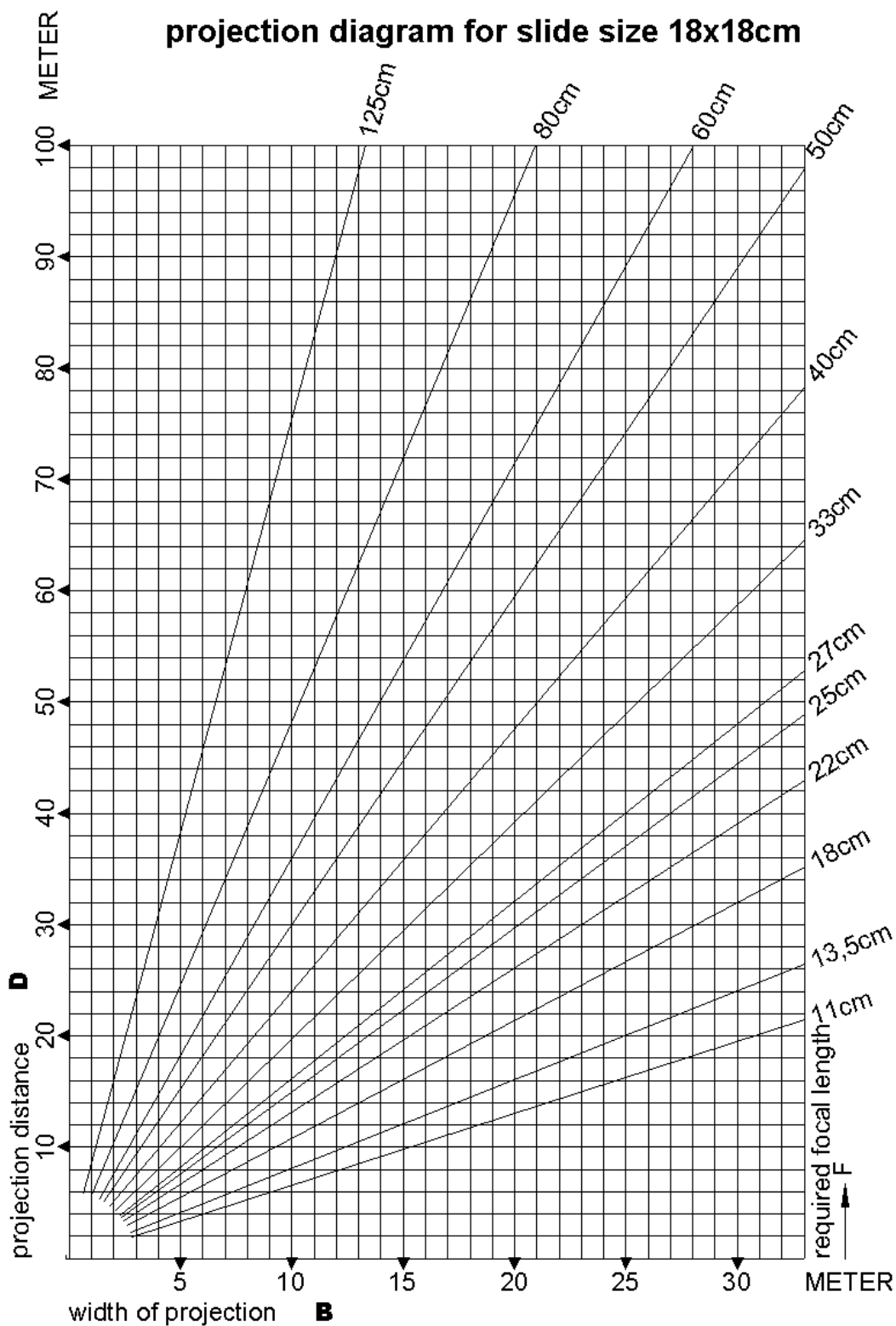


projection diagram for slide size 18x18cm



calculating formulas

$$F = \frac{O \times D}{B + O}; \quad B = O \times \left(\frac{D}{F} - 1 \right); \quad D = F \times \left(\frac{B}{O} + 1 \right); \quad O = \frac{B \times F}{D - F}$$

F required focal length

B picture size

D projection distance

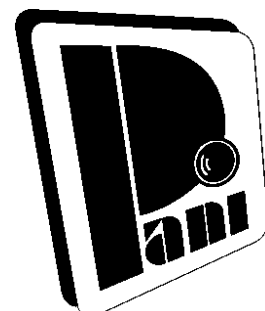
(measured from the middle of the objective lens)

O object size (usable format)

usable format (O)=

= 17cm for glass slides

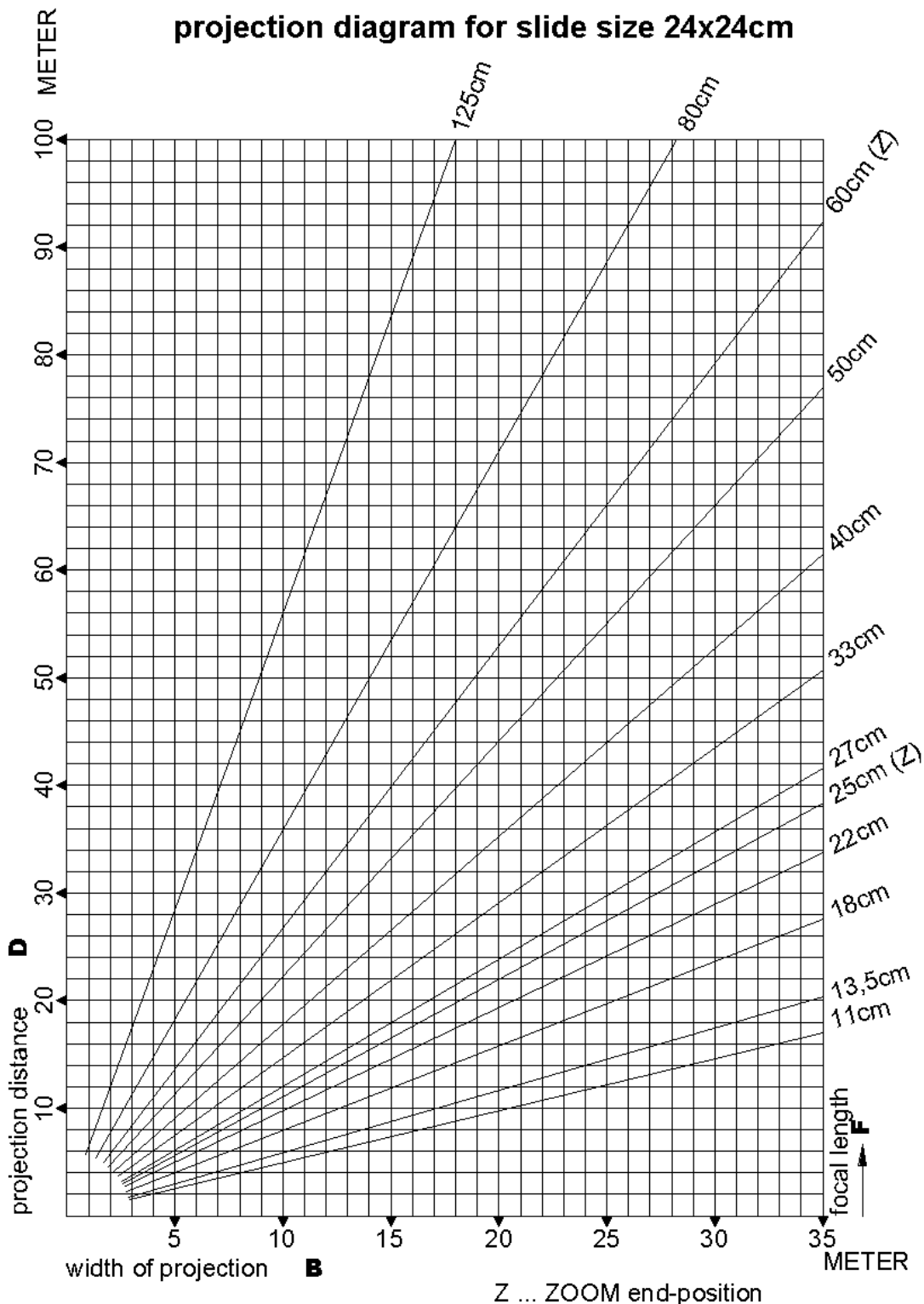
= 15,5cm for filmholder



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projection diagram for slide size 24x24cm



calculating formulas

$$F = \frac{O \times D}{B + O}; \quad B = O \times \left(\frac{D}{F} - 1 \right); \quad D = F \times \left(\frac{B}{O} + 1 \right); \quad O = \frac{B \times F}{D - F}$$

F focal length of the objective lens

B width of the image

D projection distance

(measured from the middle of the objective lens)

O object size (used slide format)

used slide format (O)=

= 23cm for glass slides

= 21,5cm for filmholder



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