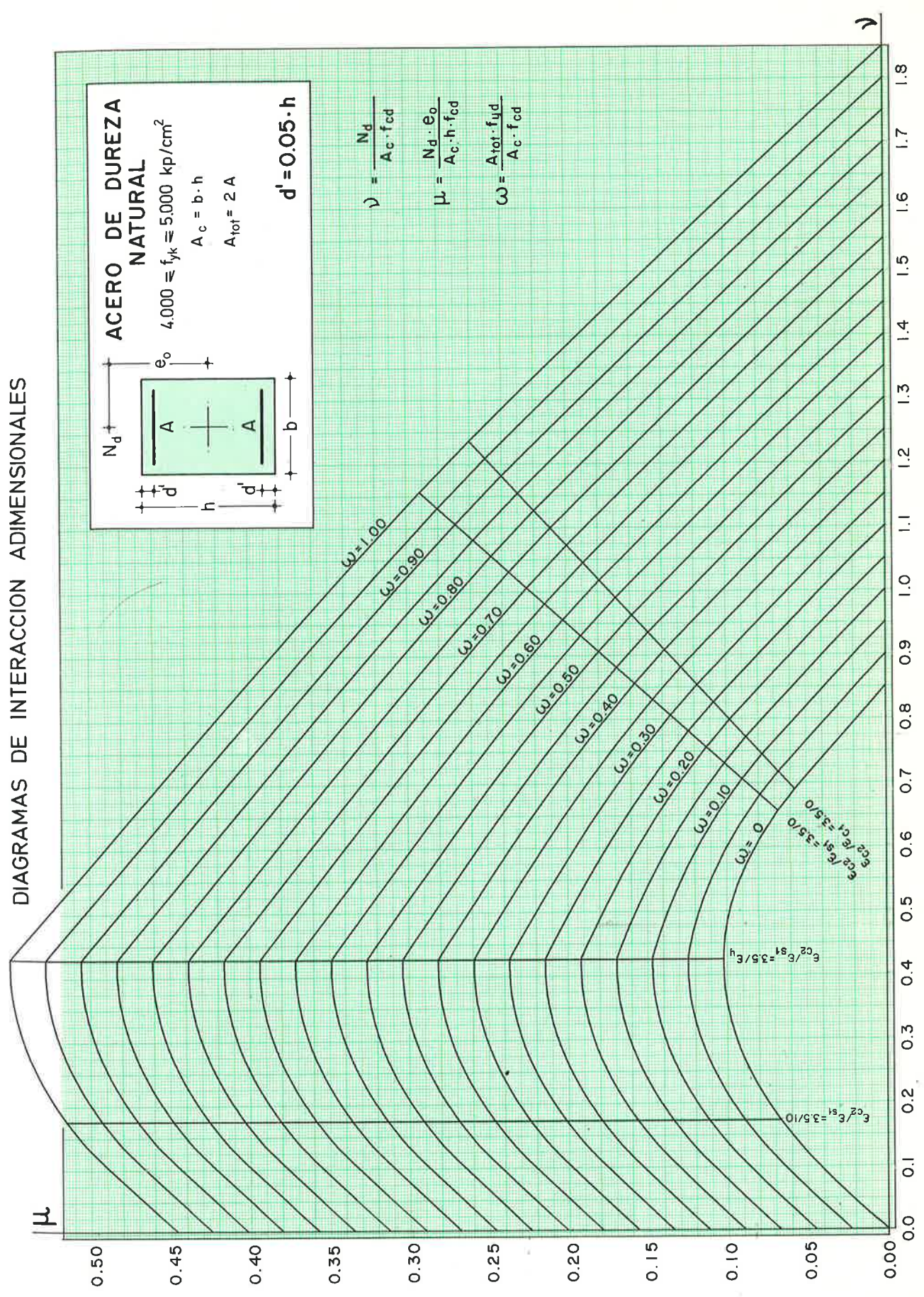
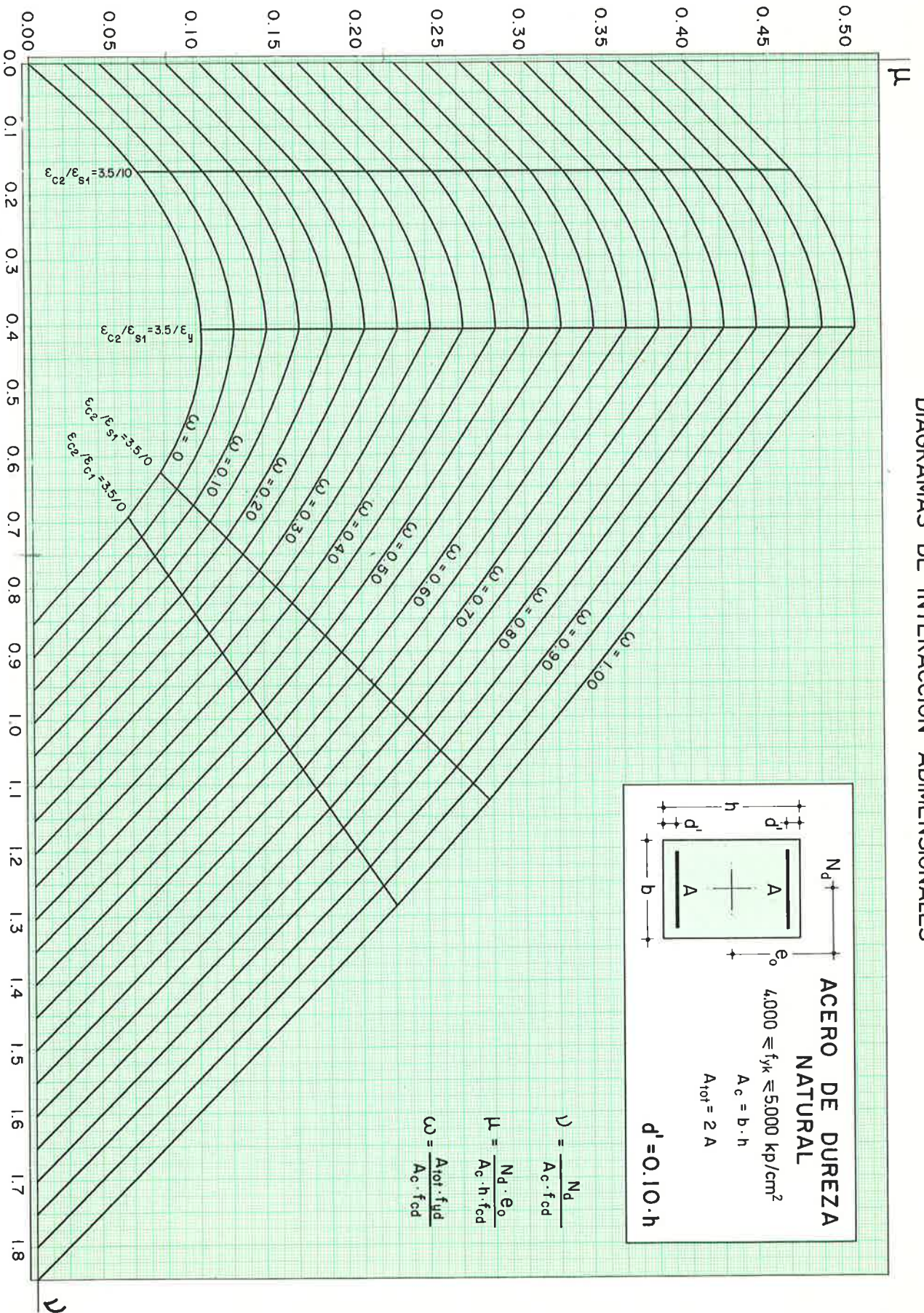


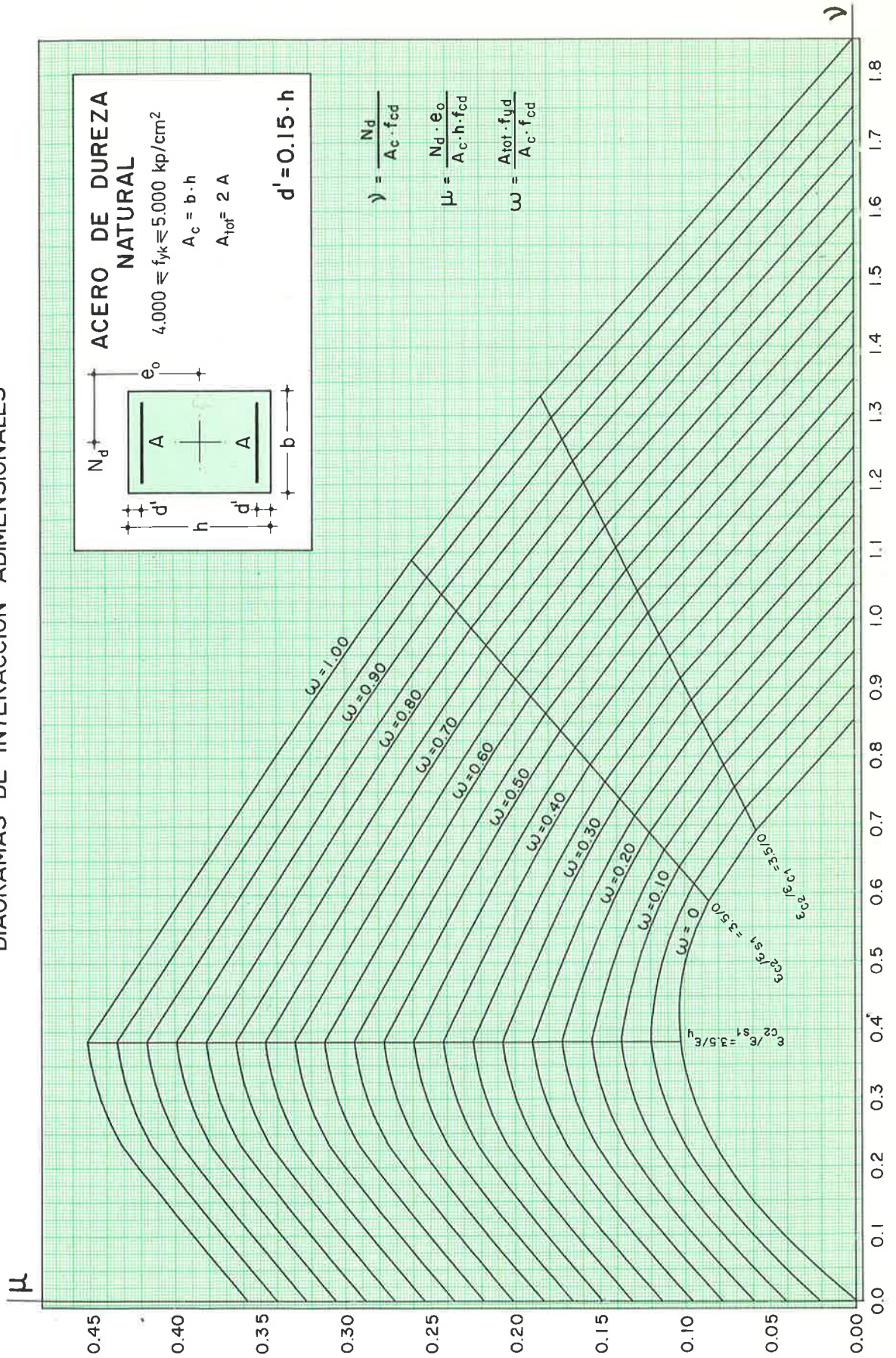
DIAGRAMAS DE INTERACCION ADIMENSIONALES



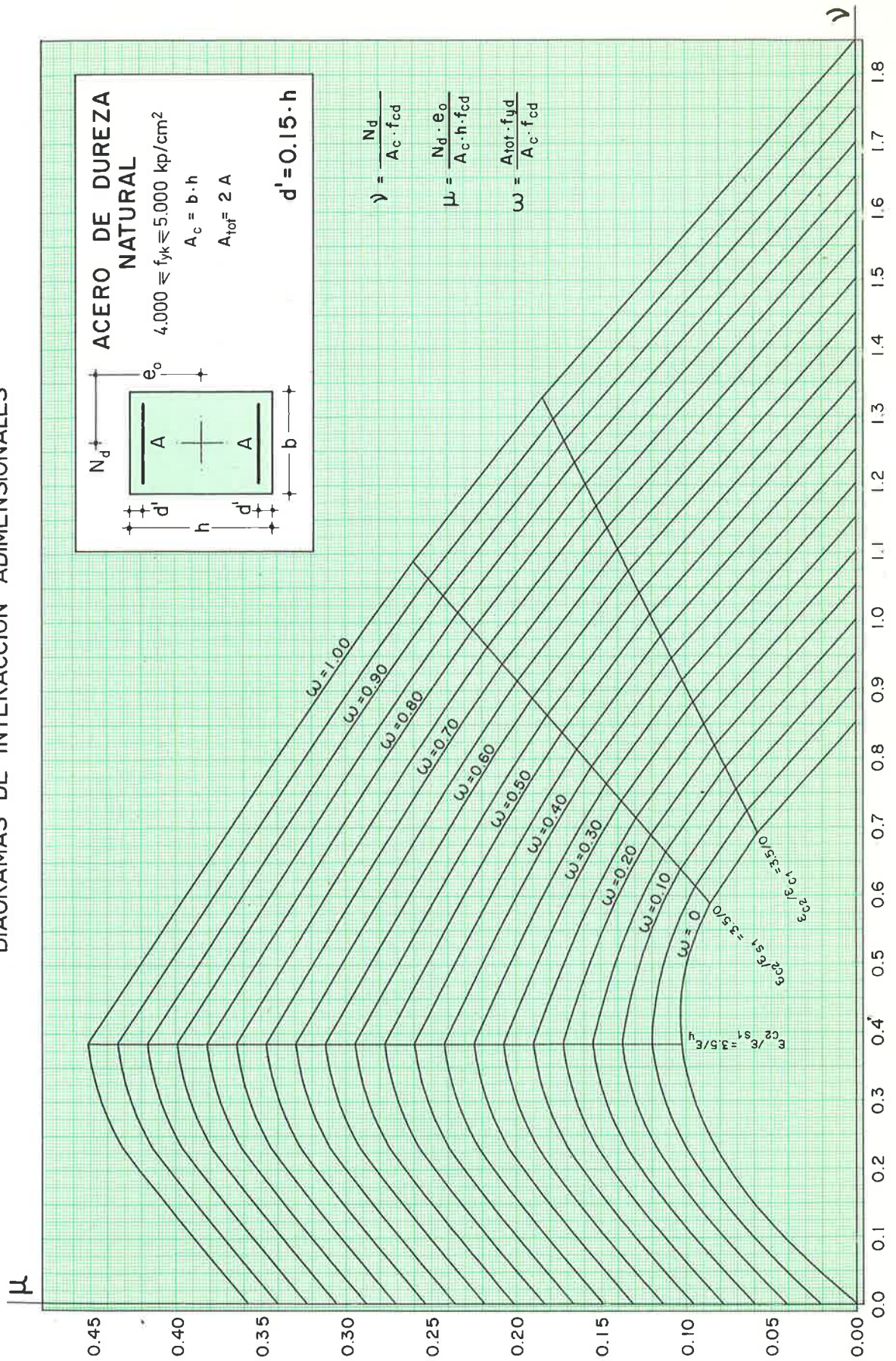
DIAGRAMAS DE INTERACCION ADIMENSIONALES



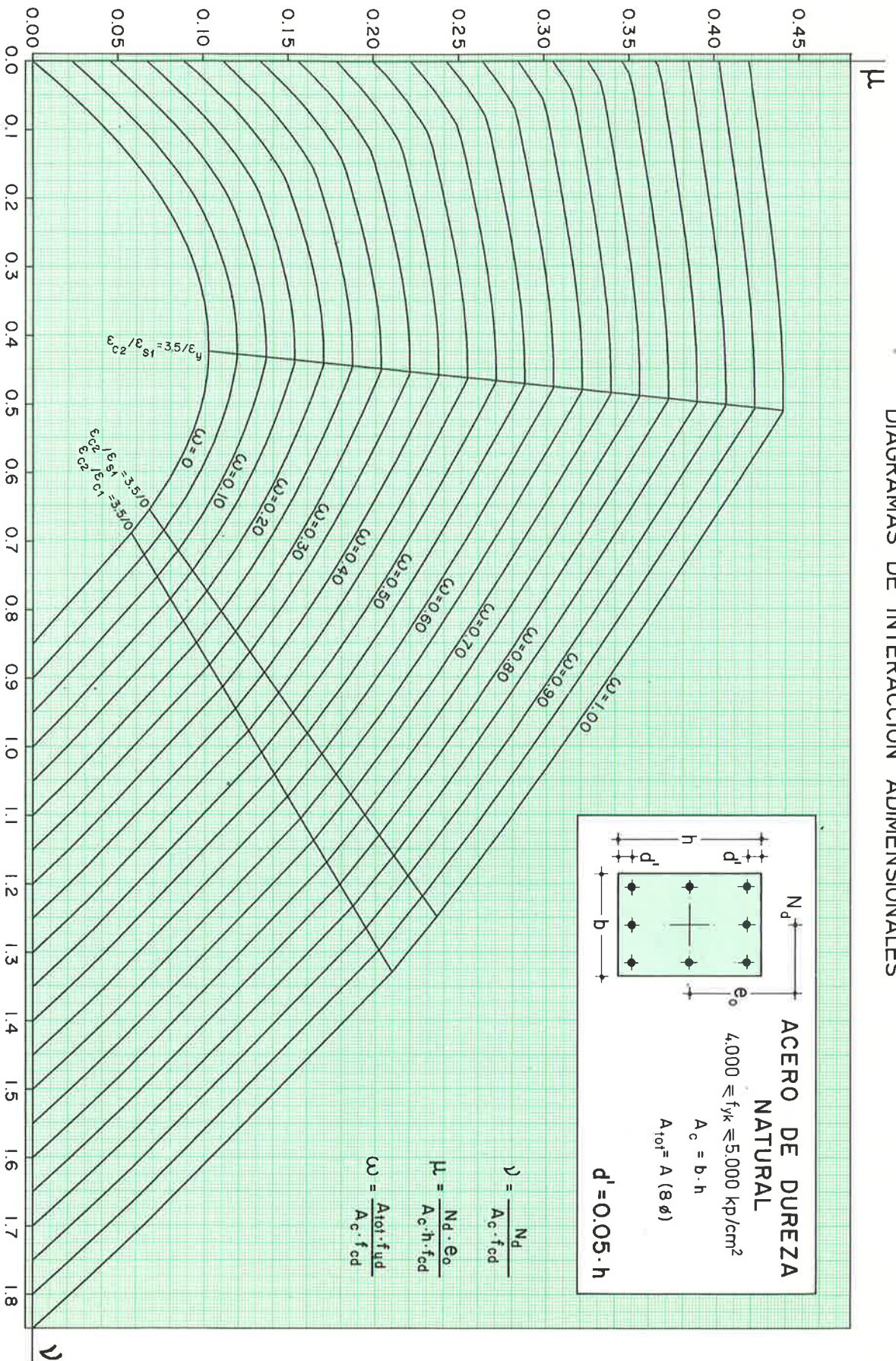
DIAGRAMAS DE INTERACCION ADIMENSIONALES



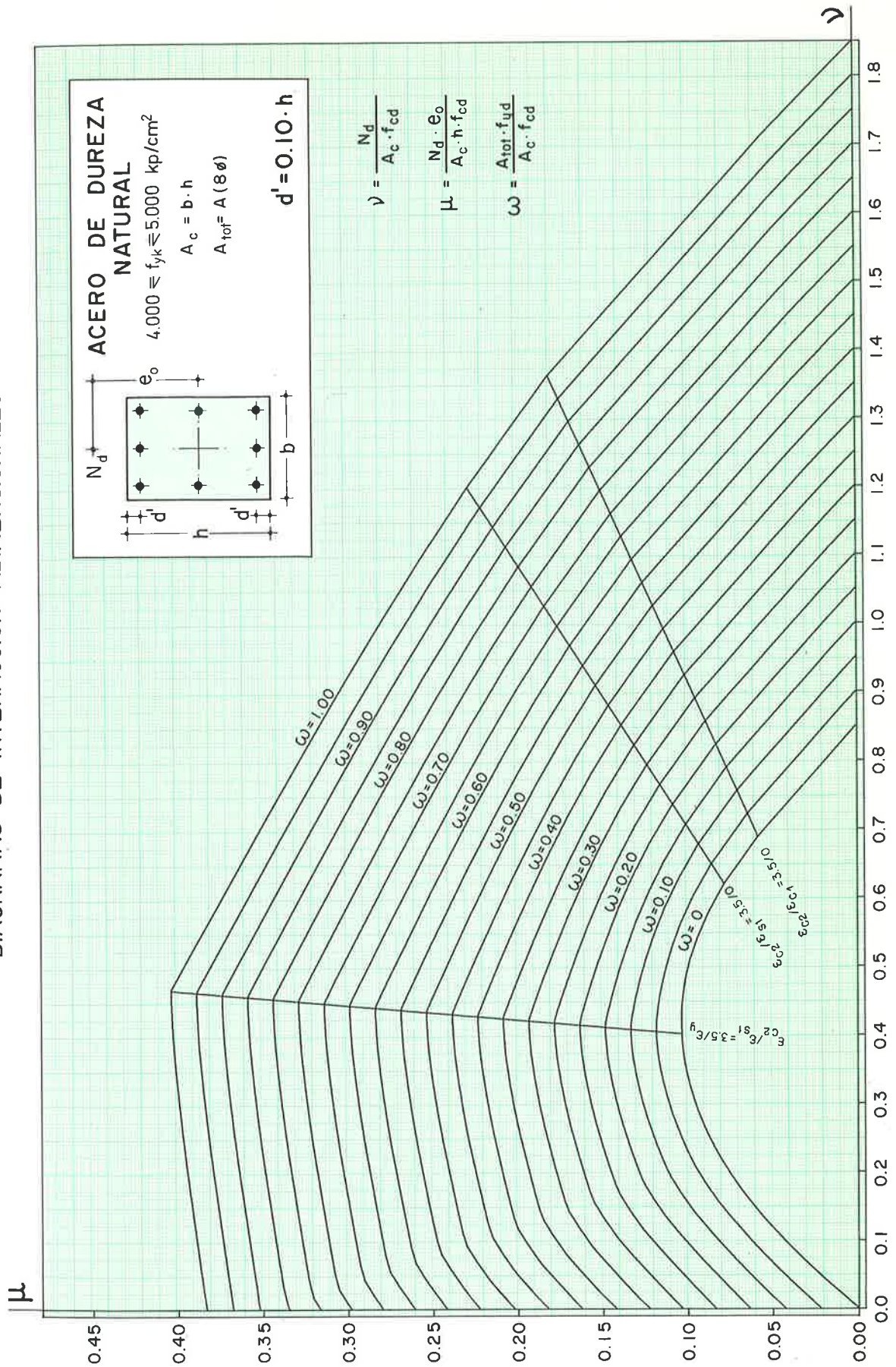
DIAGRAMAS DE INTERACCION ADIMENSIONALES



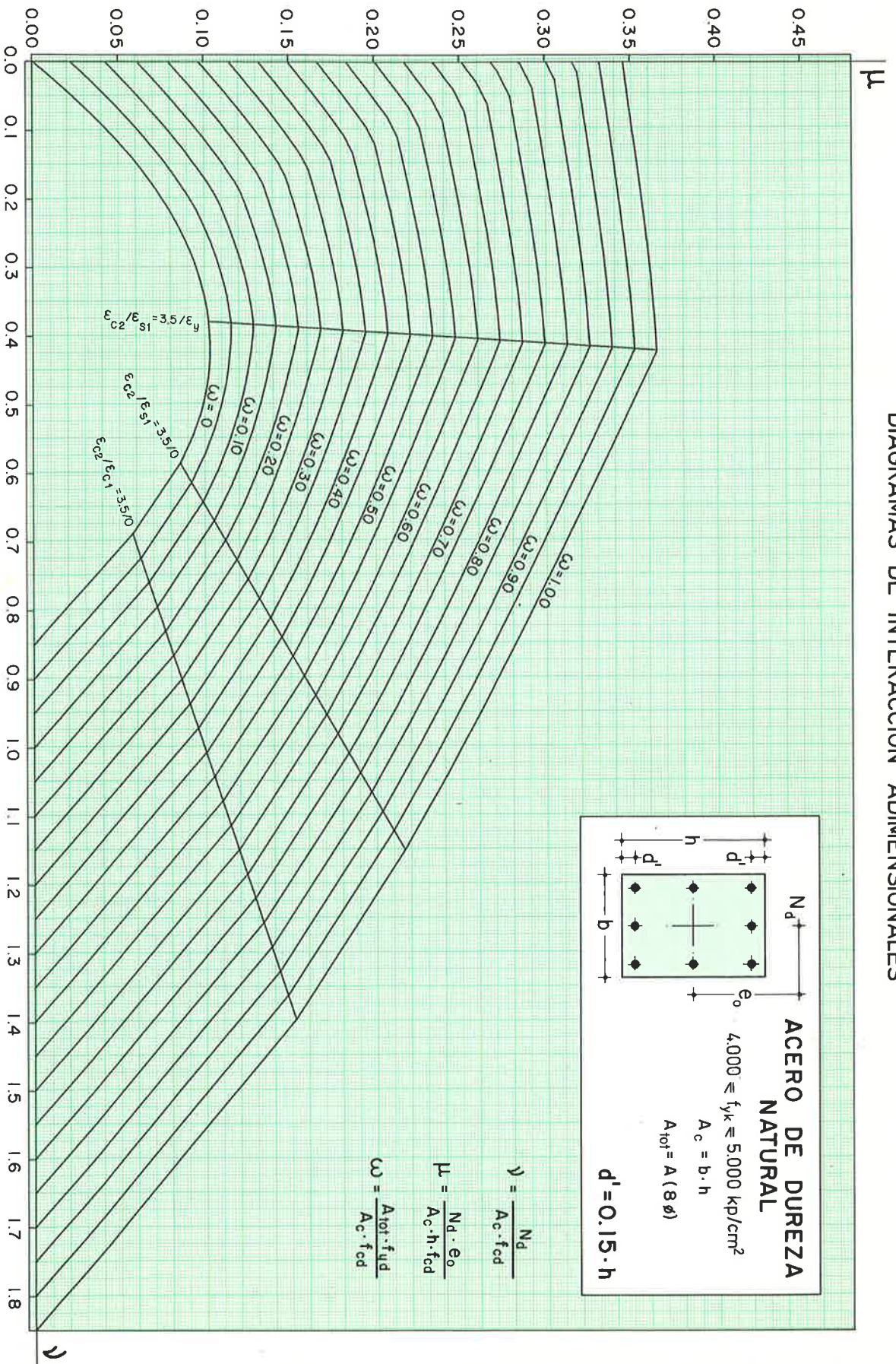
DIAGRAMAS DE INTERACCION ADIMENSIONALES



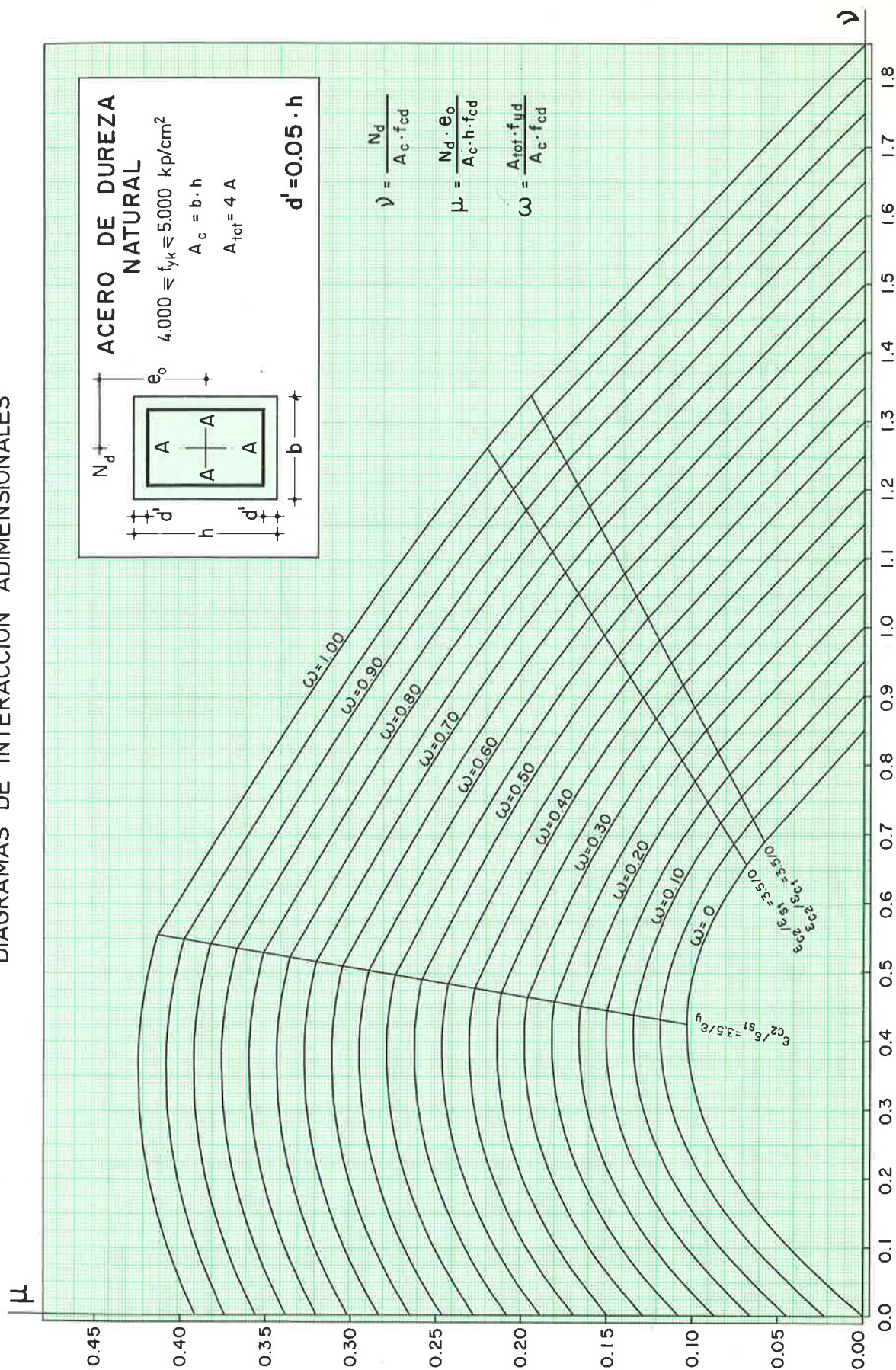
DIAGRAMAS DE INTERACCION ADIMENSIONALES



DIAGRAMAS DE INTERACCION ADIMENSIONALES

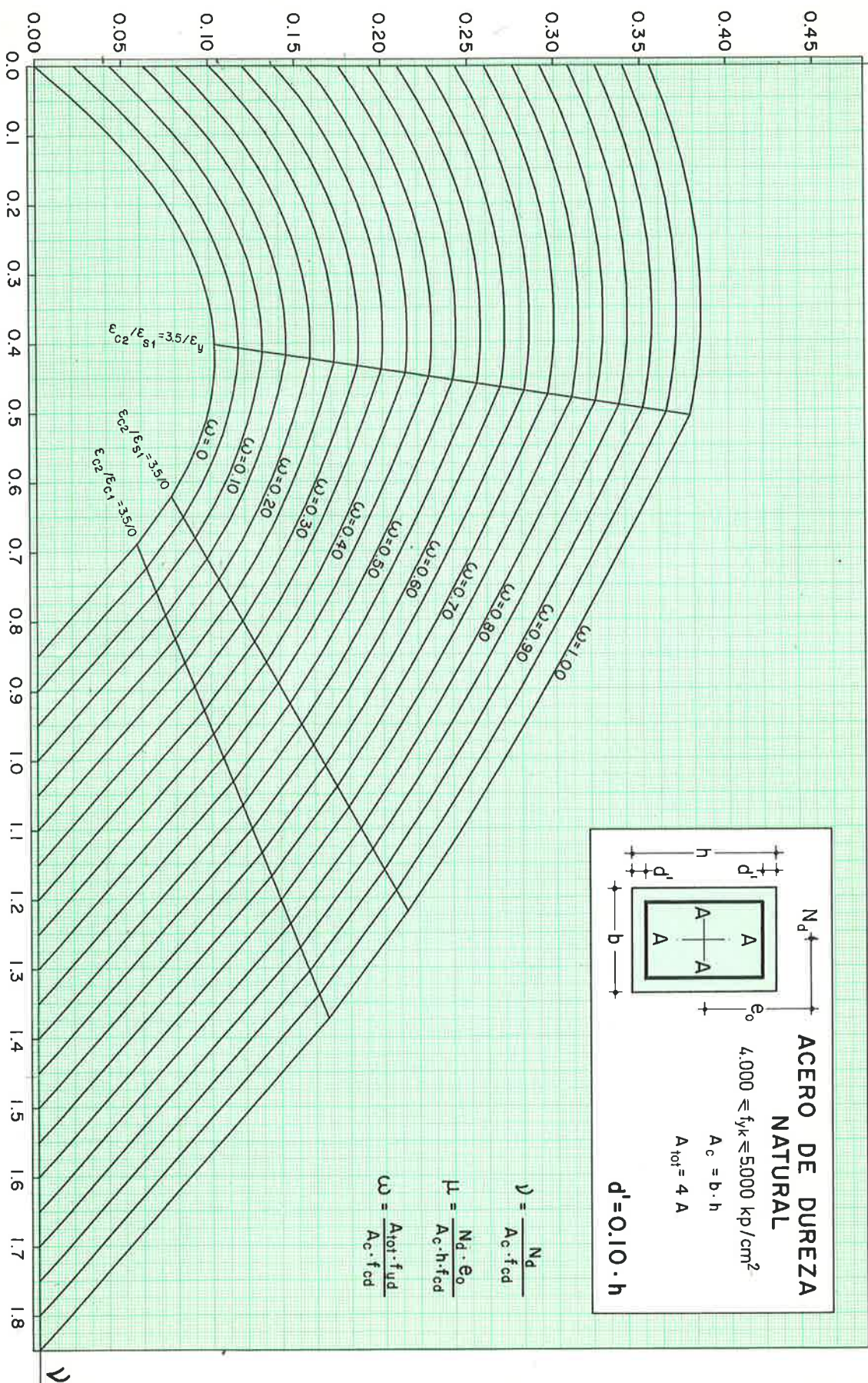


DIAGRAMAS DE INTERACCION ADIMENSIONALES

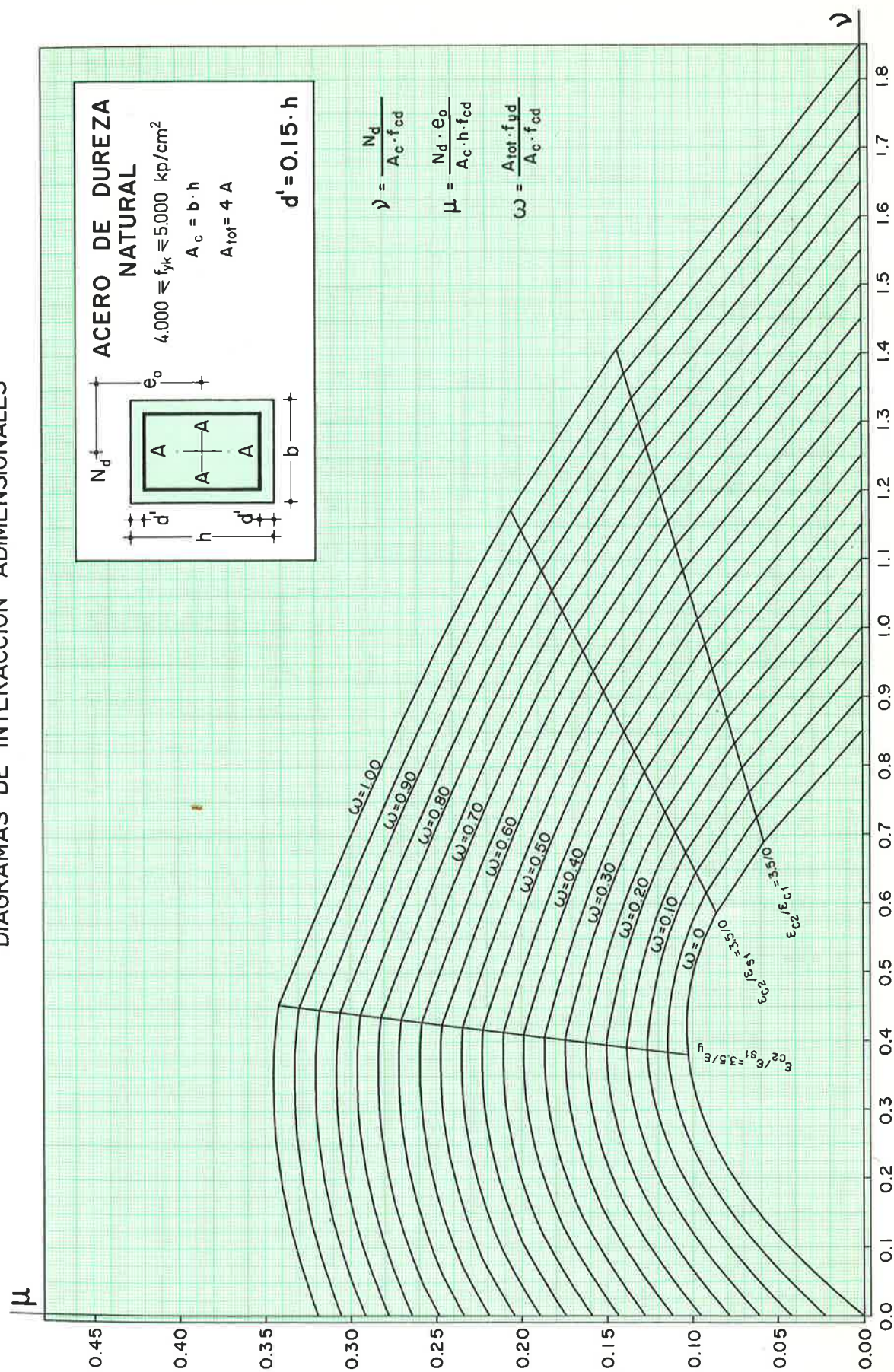


μ

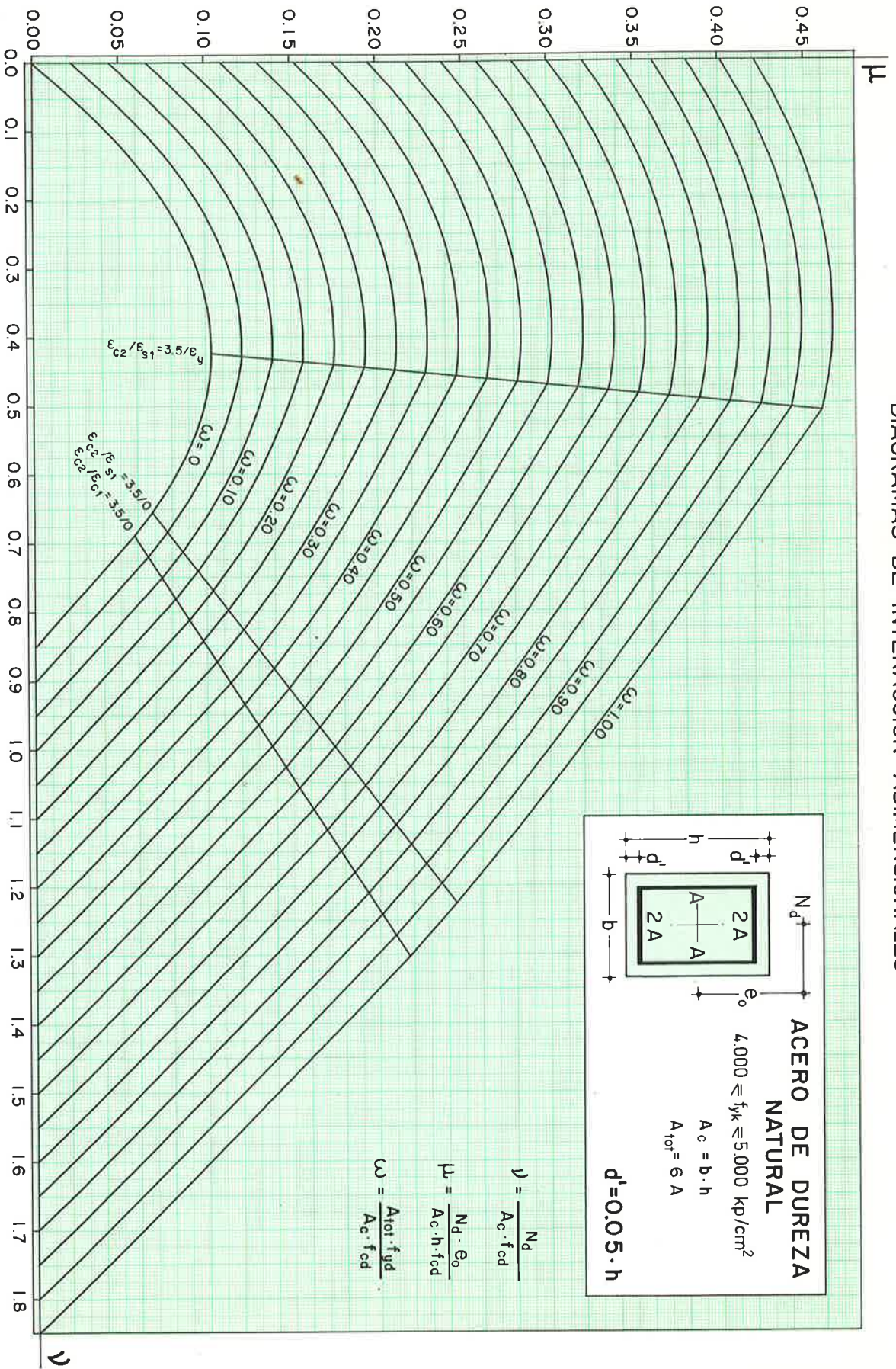
DIAGRAMAS DE INTERACCION ADIMENSIONALES



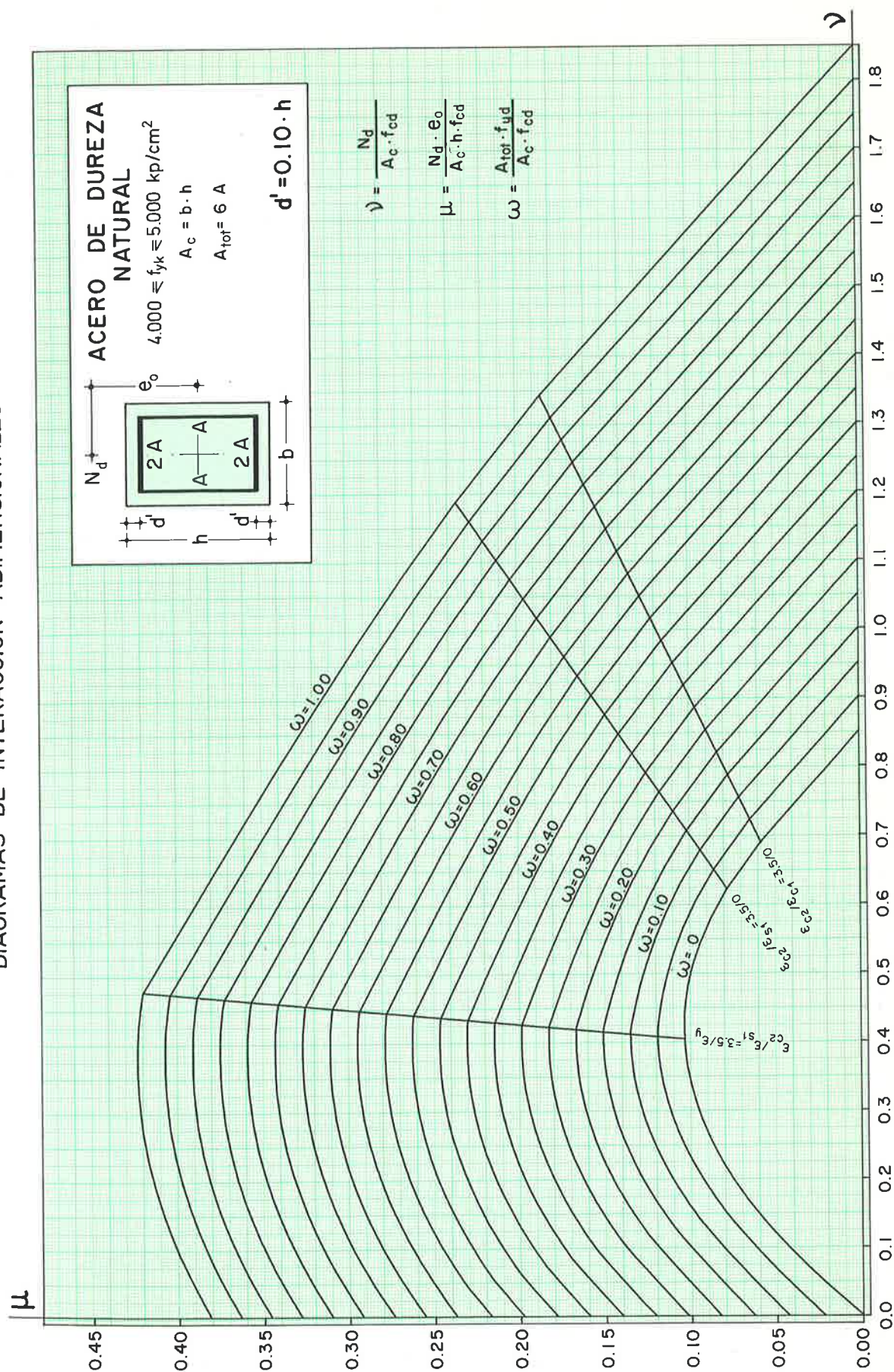
DIAGRAMAS DE INTERACCION ADIMENSIONALES



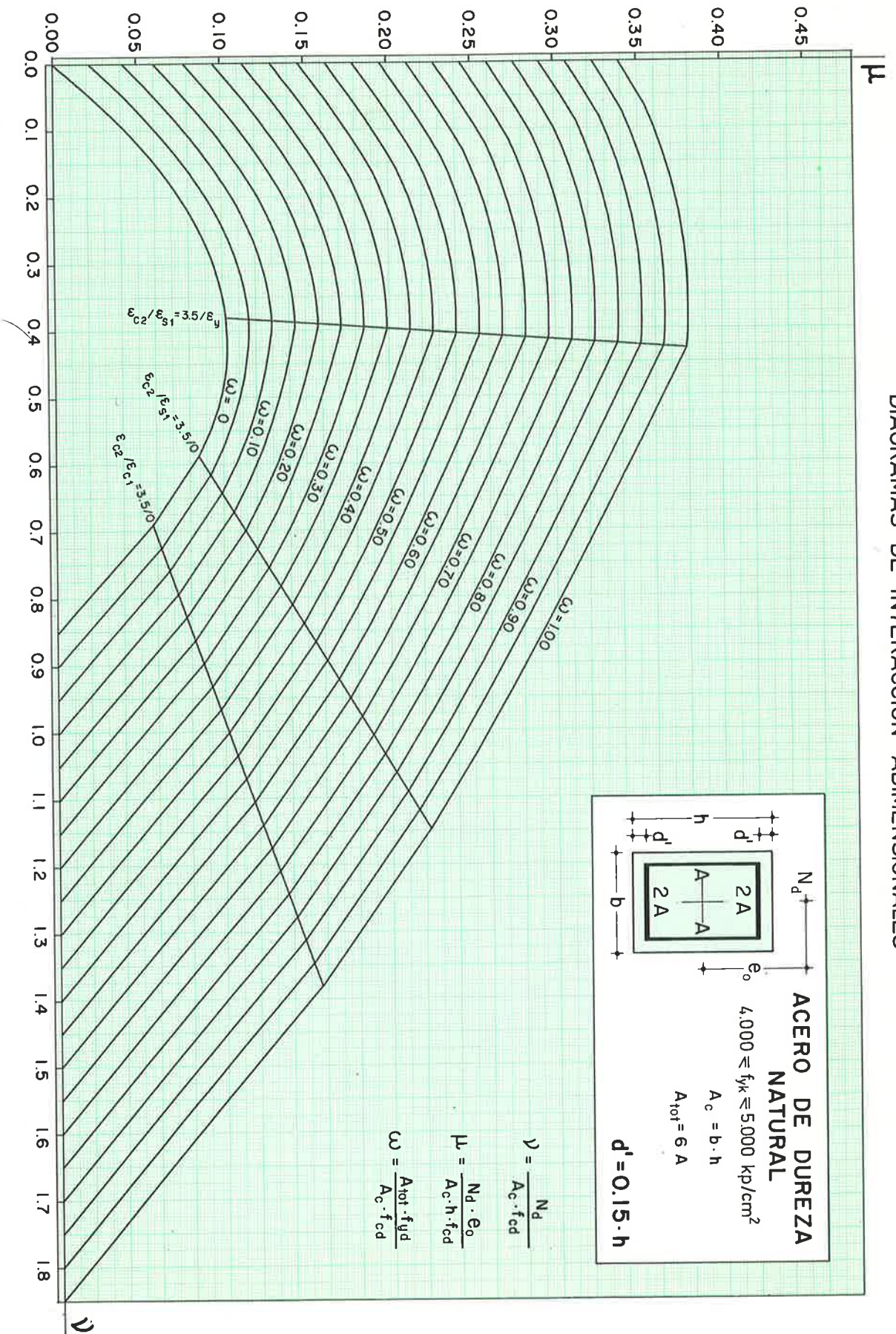
DIAGRAMAS DE INTERACCION ADIMENSIONALES



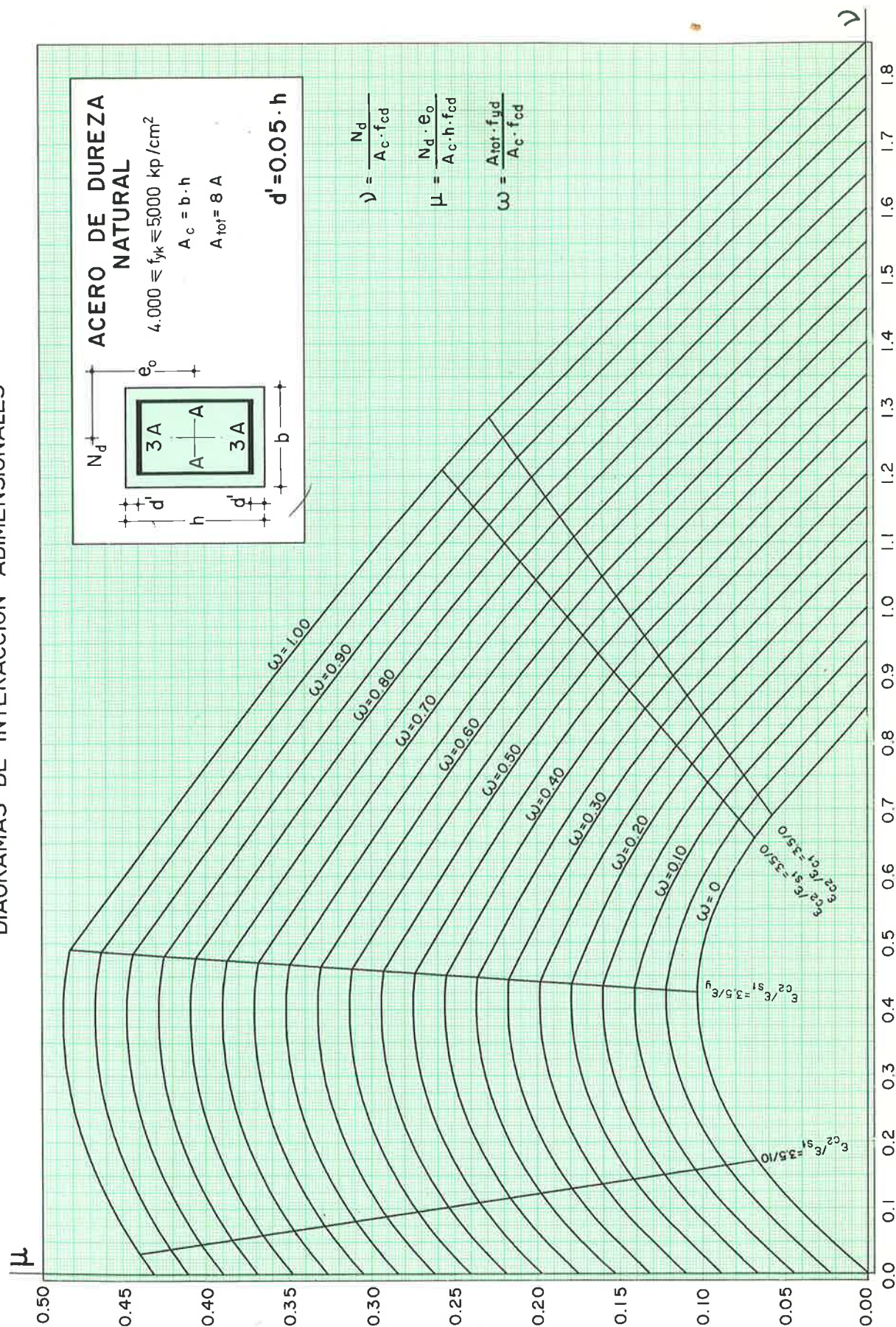
DIAGRAMAS DE INTERACCION ADIMENSIONALES



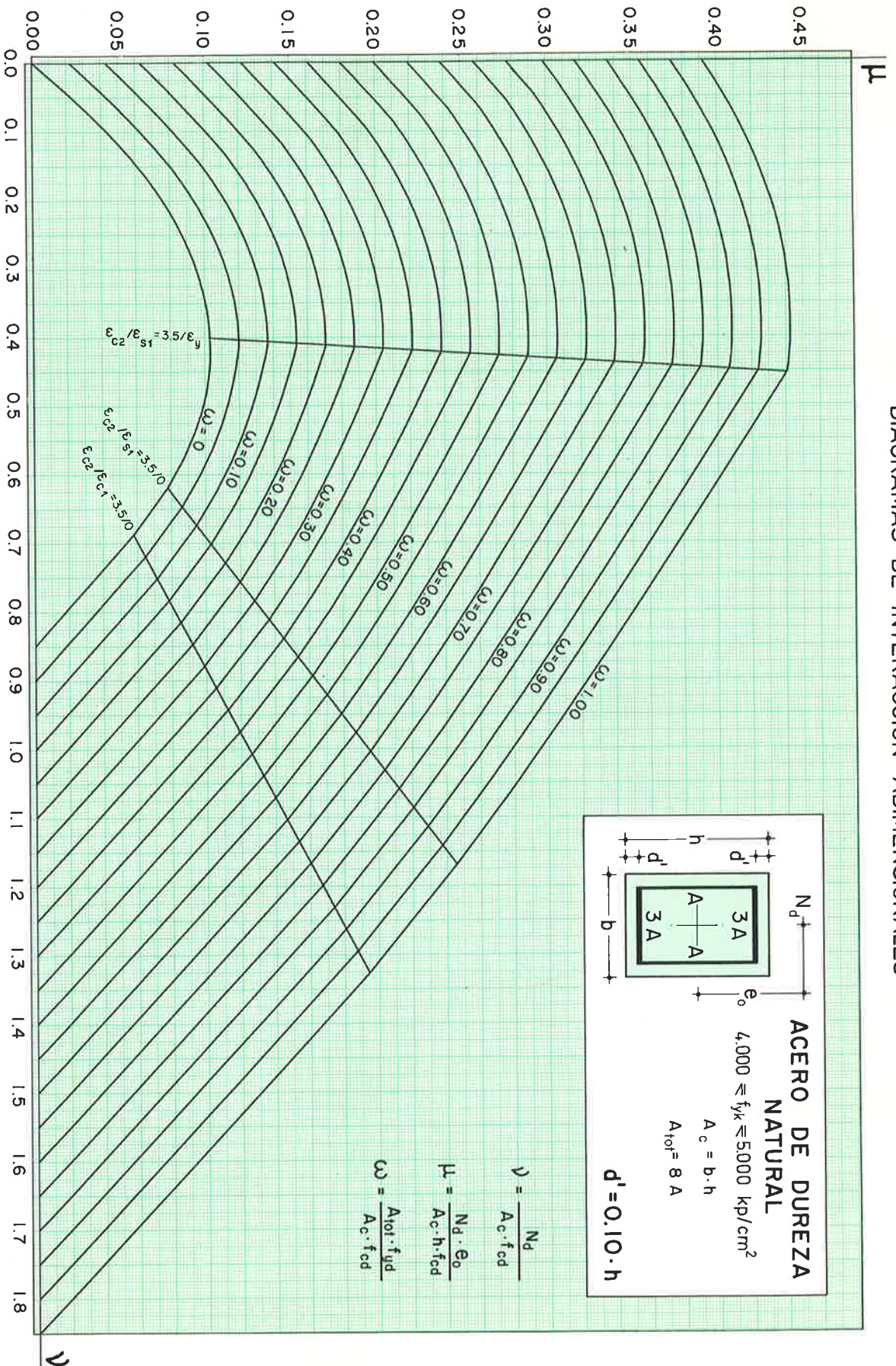
DIAGRAMAS DE INTERACCION ADIMENSIONALES



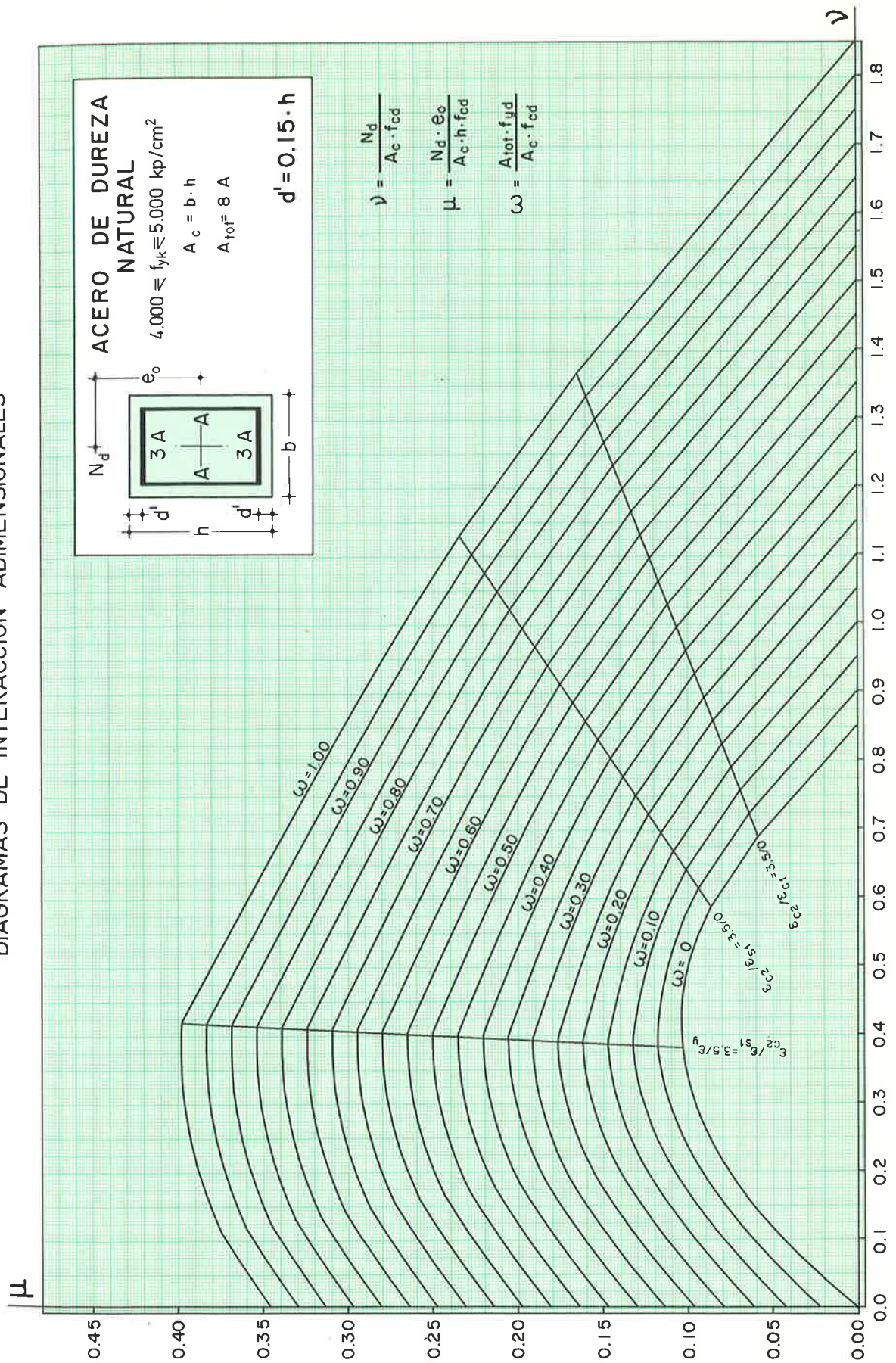
DIAGRAMAS DE INTERACCION ADIMENSIONALES



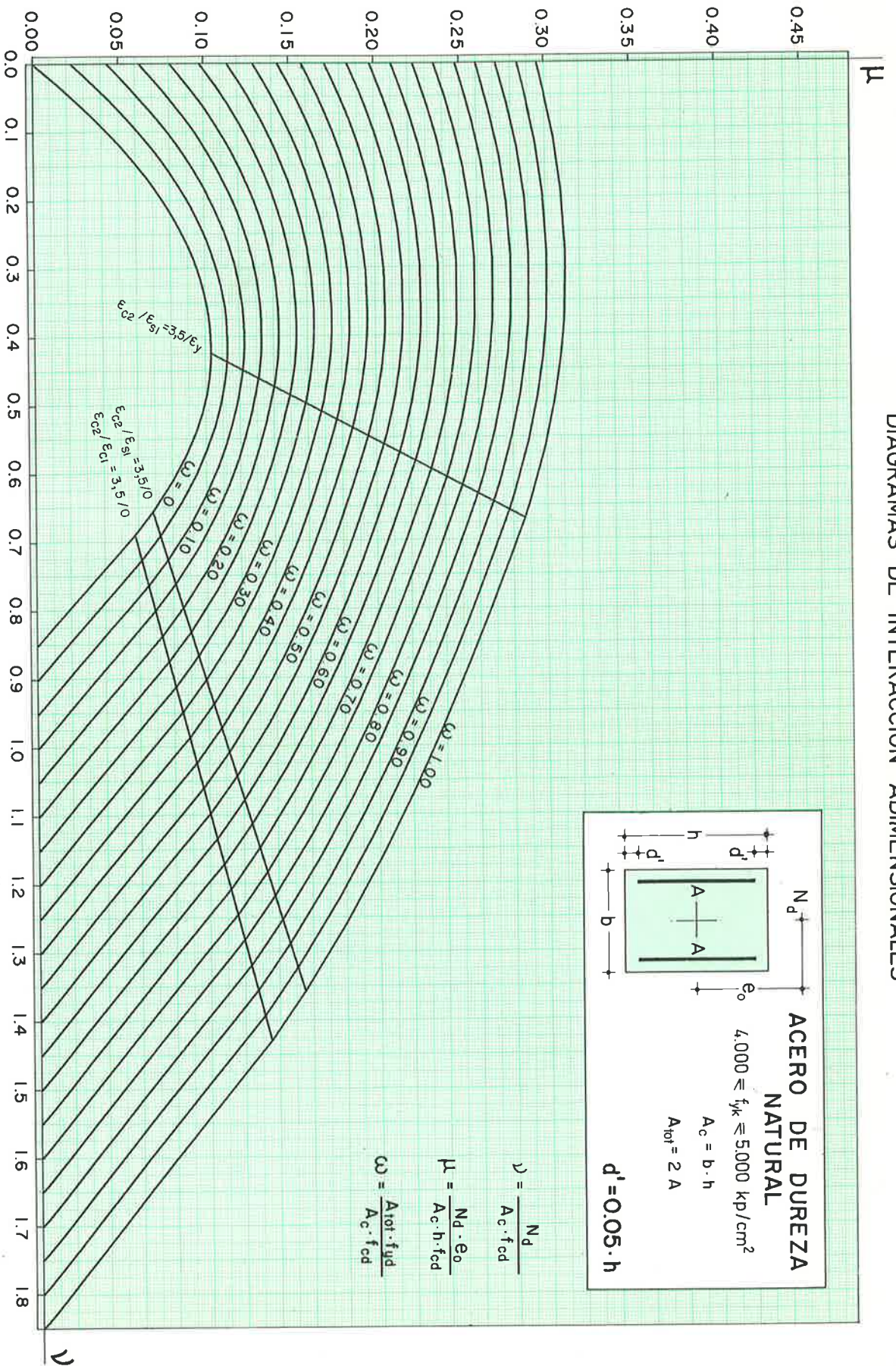
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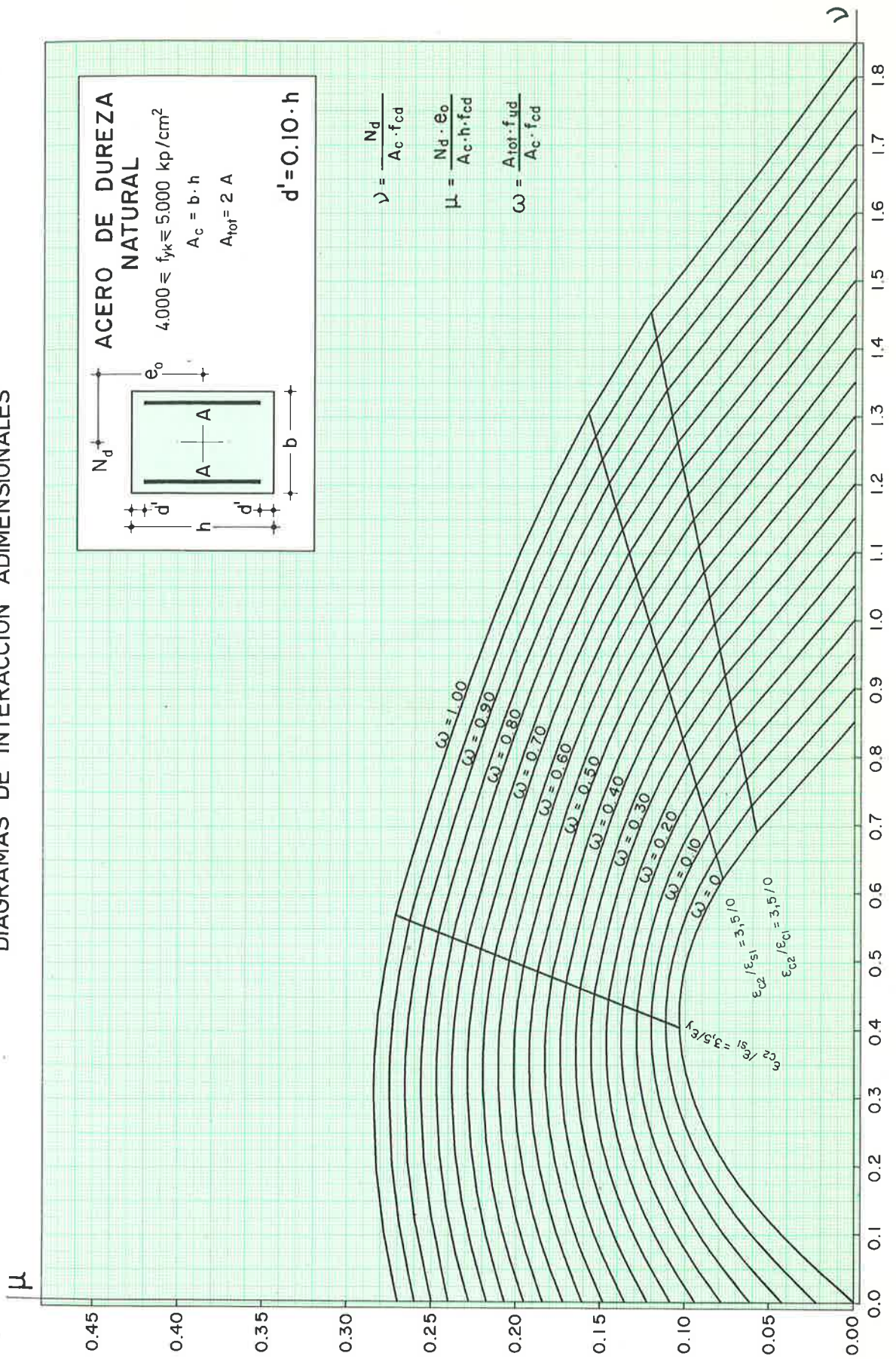
DIAGRAMAS DE INTERACCION ADIMENSIONALES



DIAGRAMAS DE INTERACCION ADIMENSIONALES

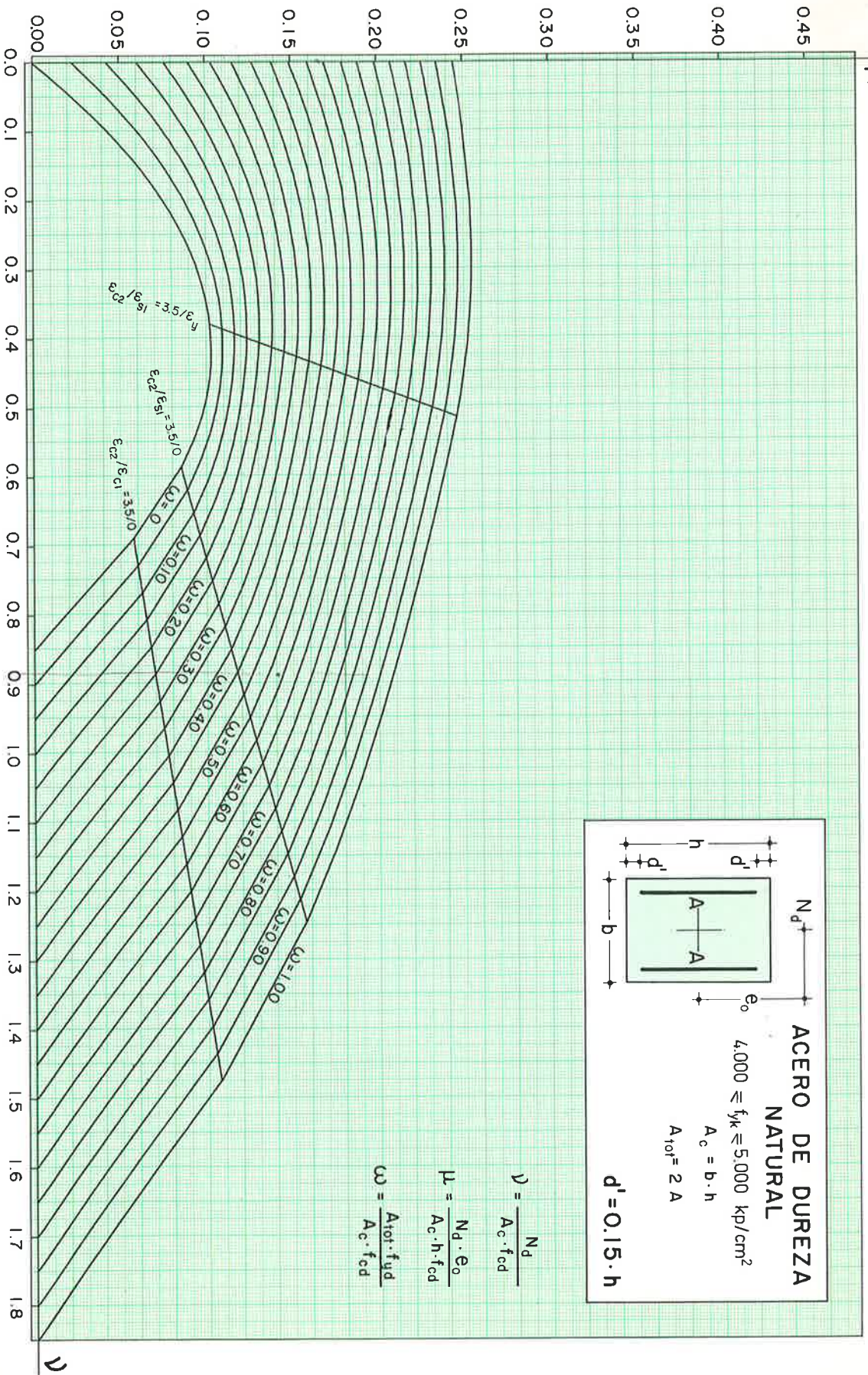


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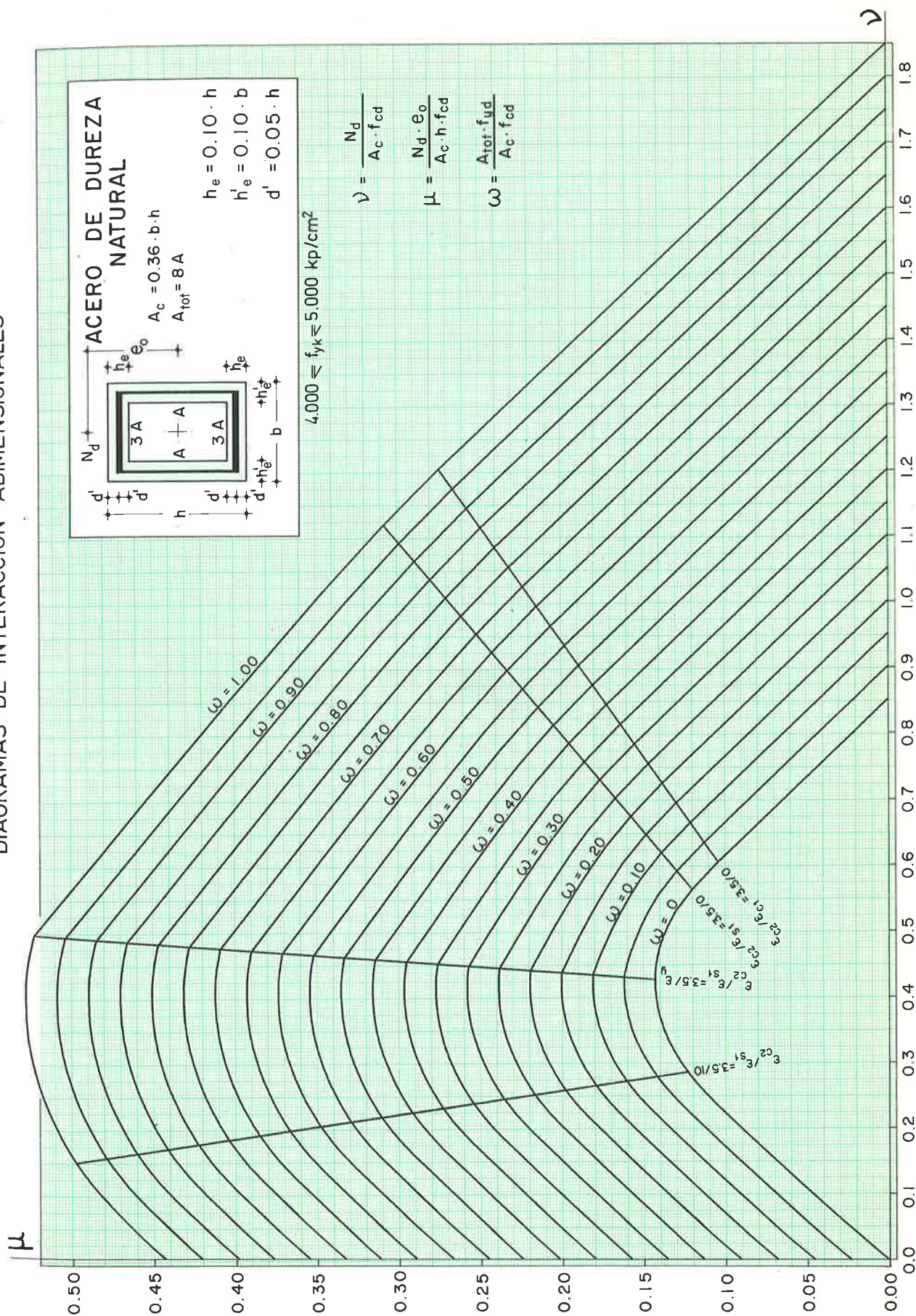


μ

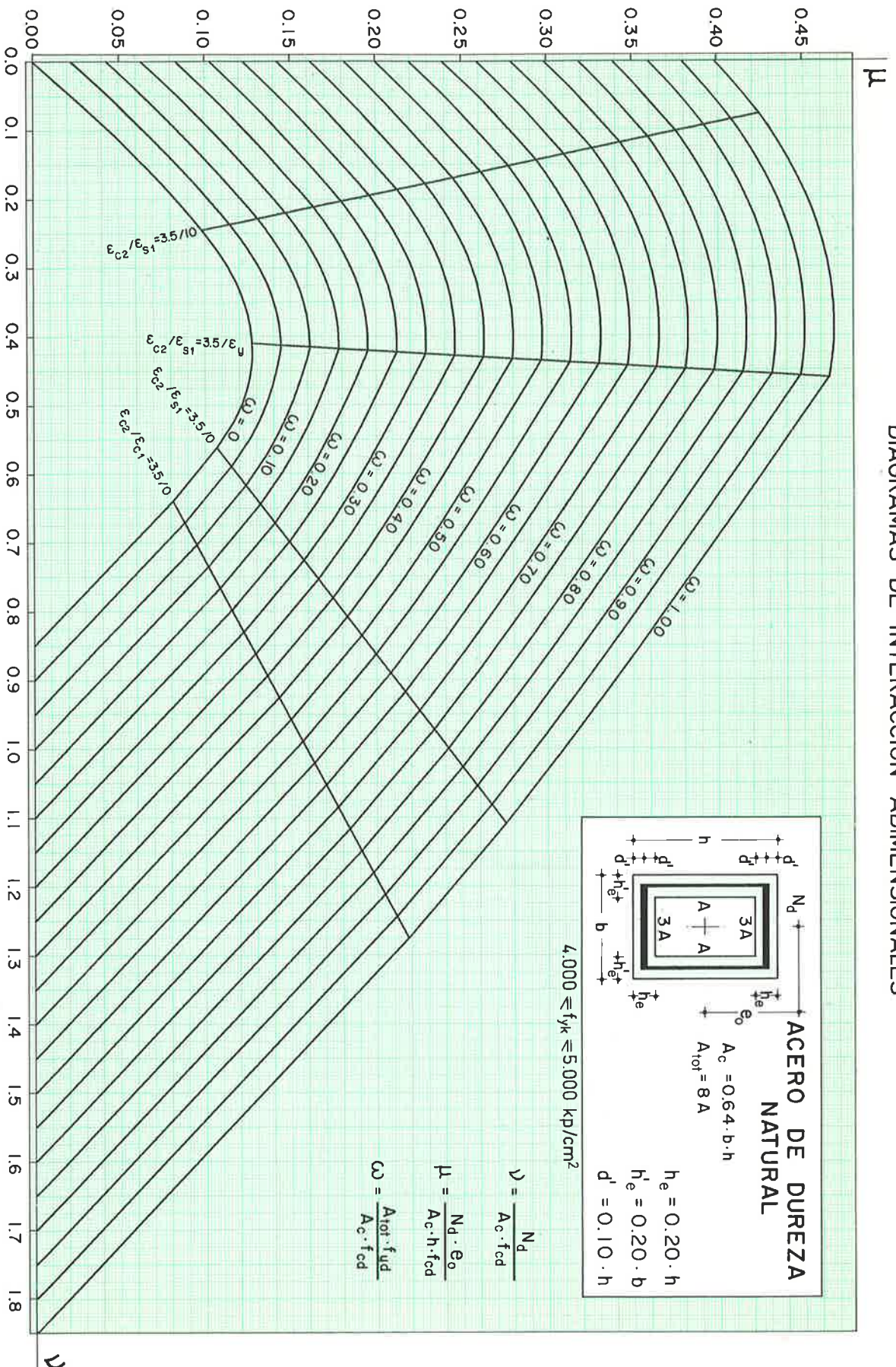
DIAGRAMAS DE INTERACCION ADIMENSIONALES



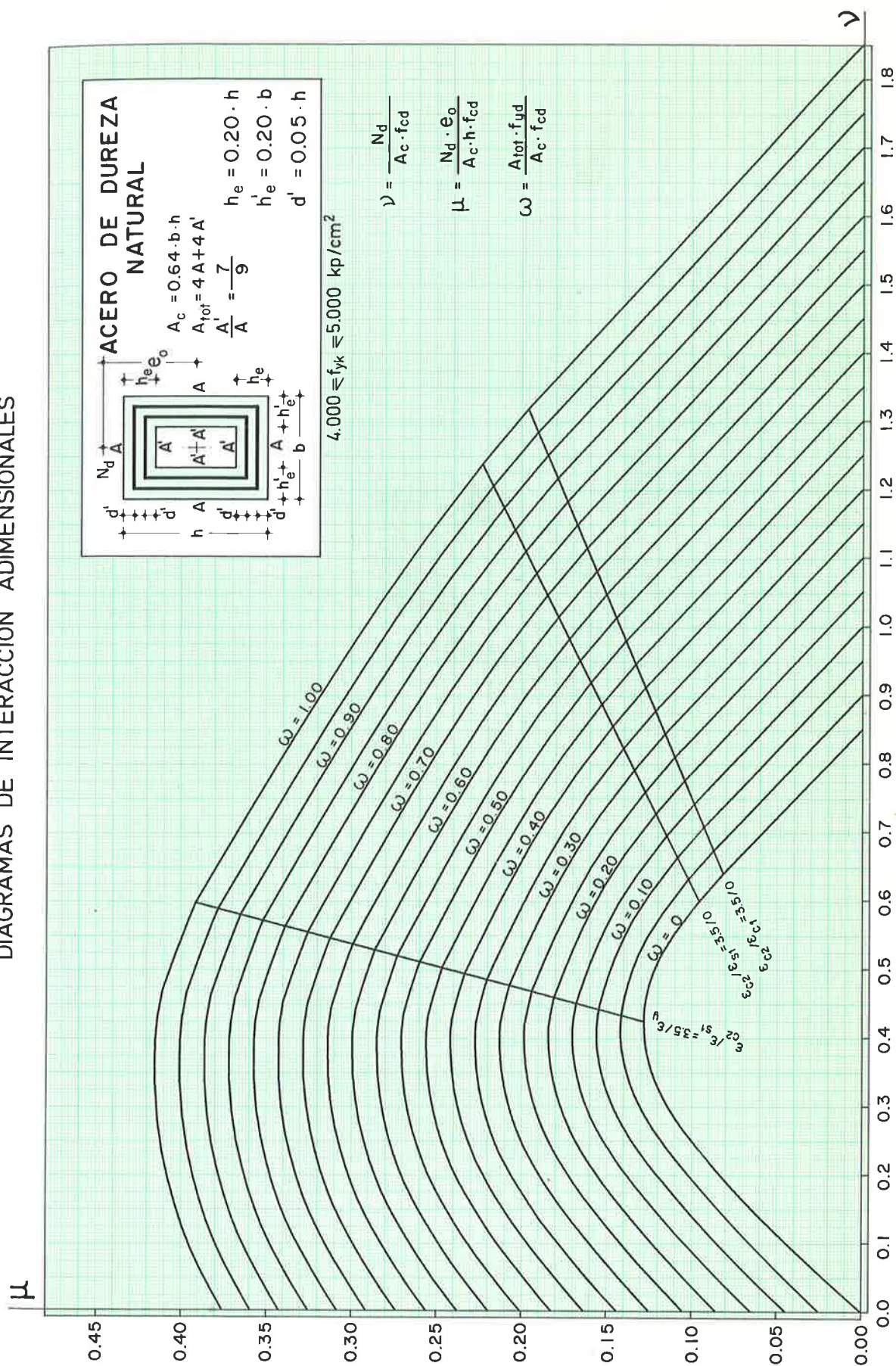
DIAGRAMAS DE INTERACCION ADIMENSIONALES



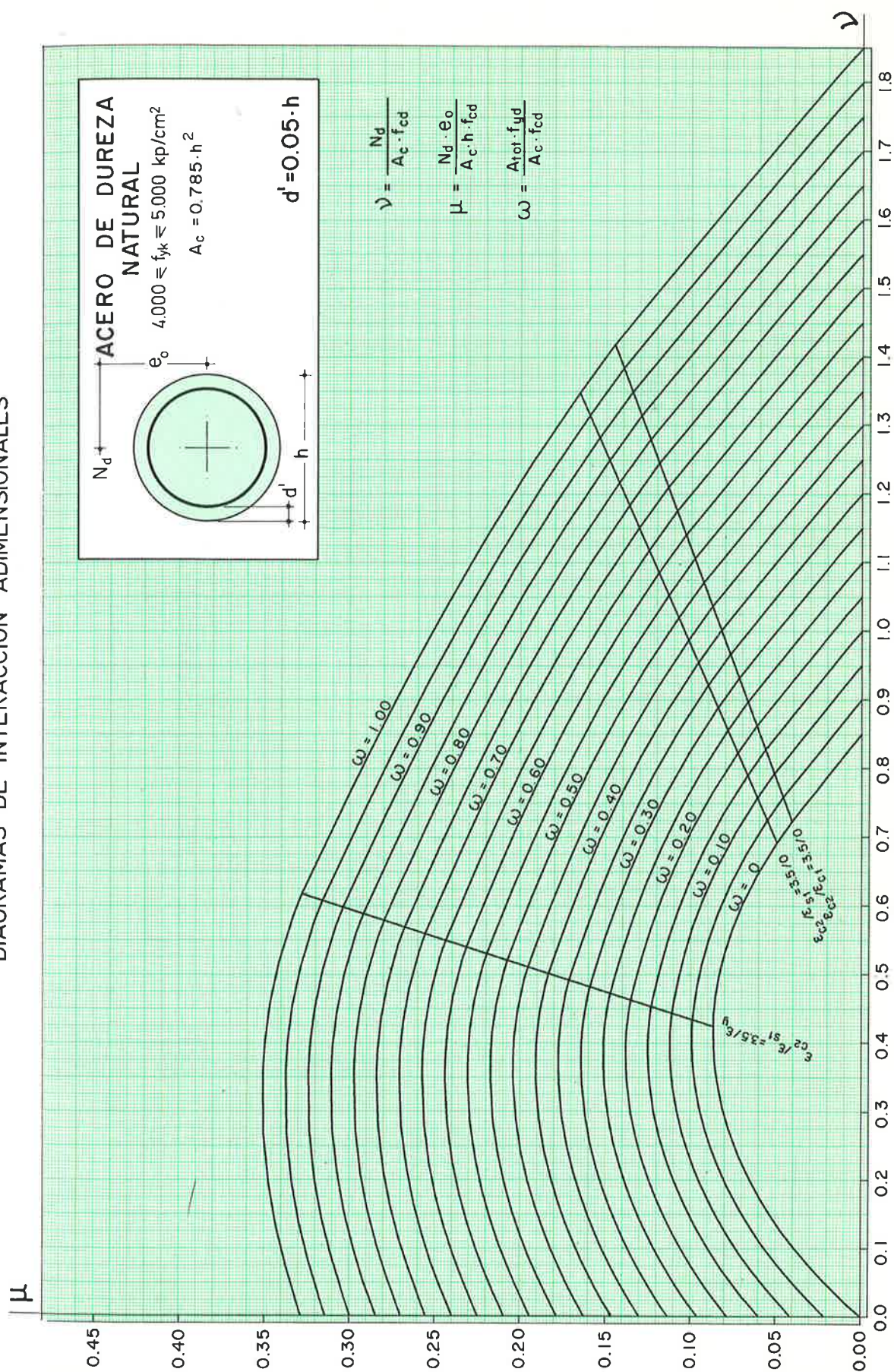
DIAGRAMAS DE INTERACCION ADIMENSIONALES



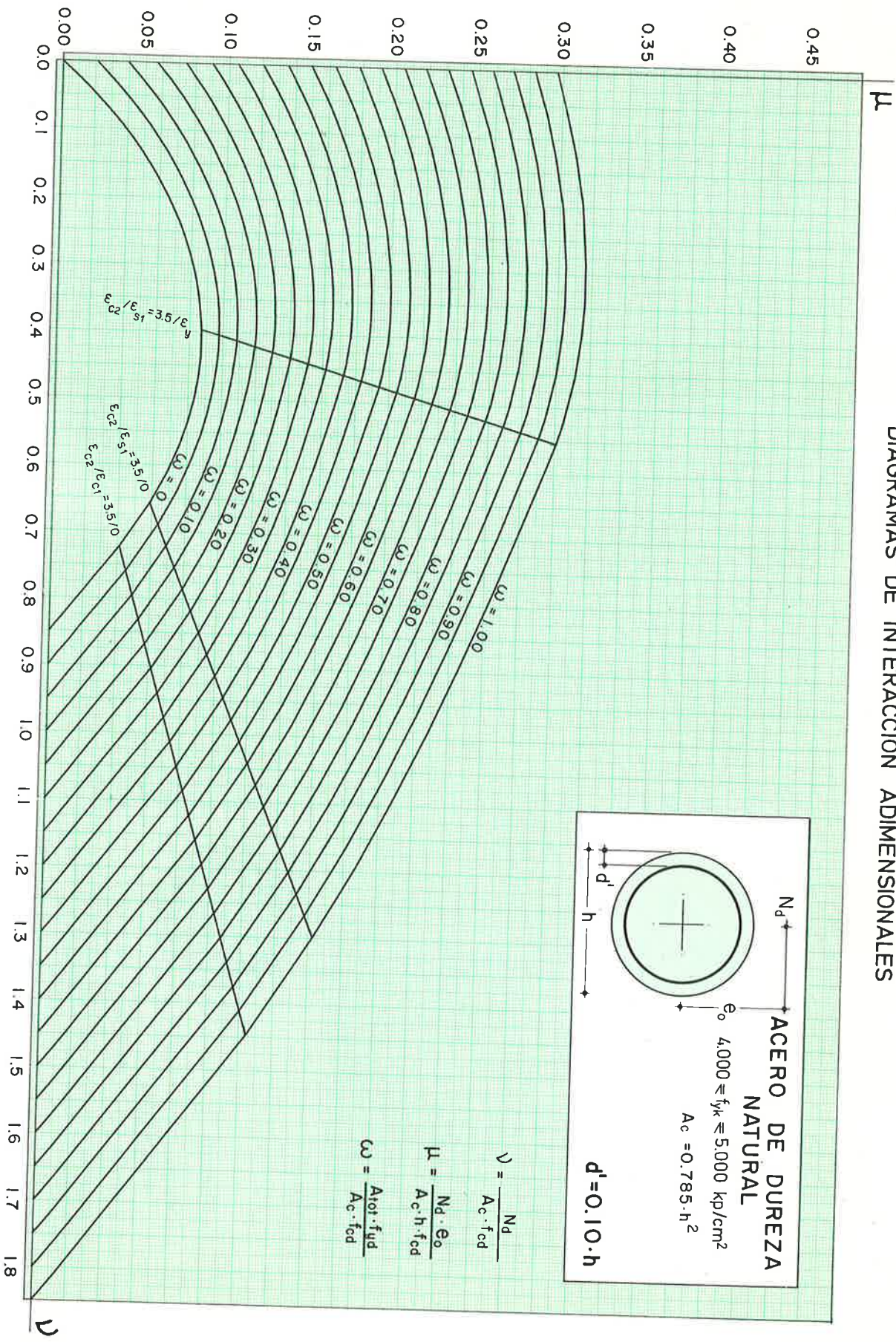
DIAGRAMAS DE INTERACCION ADIMENSIONALES



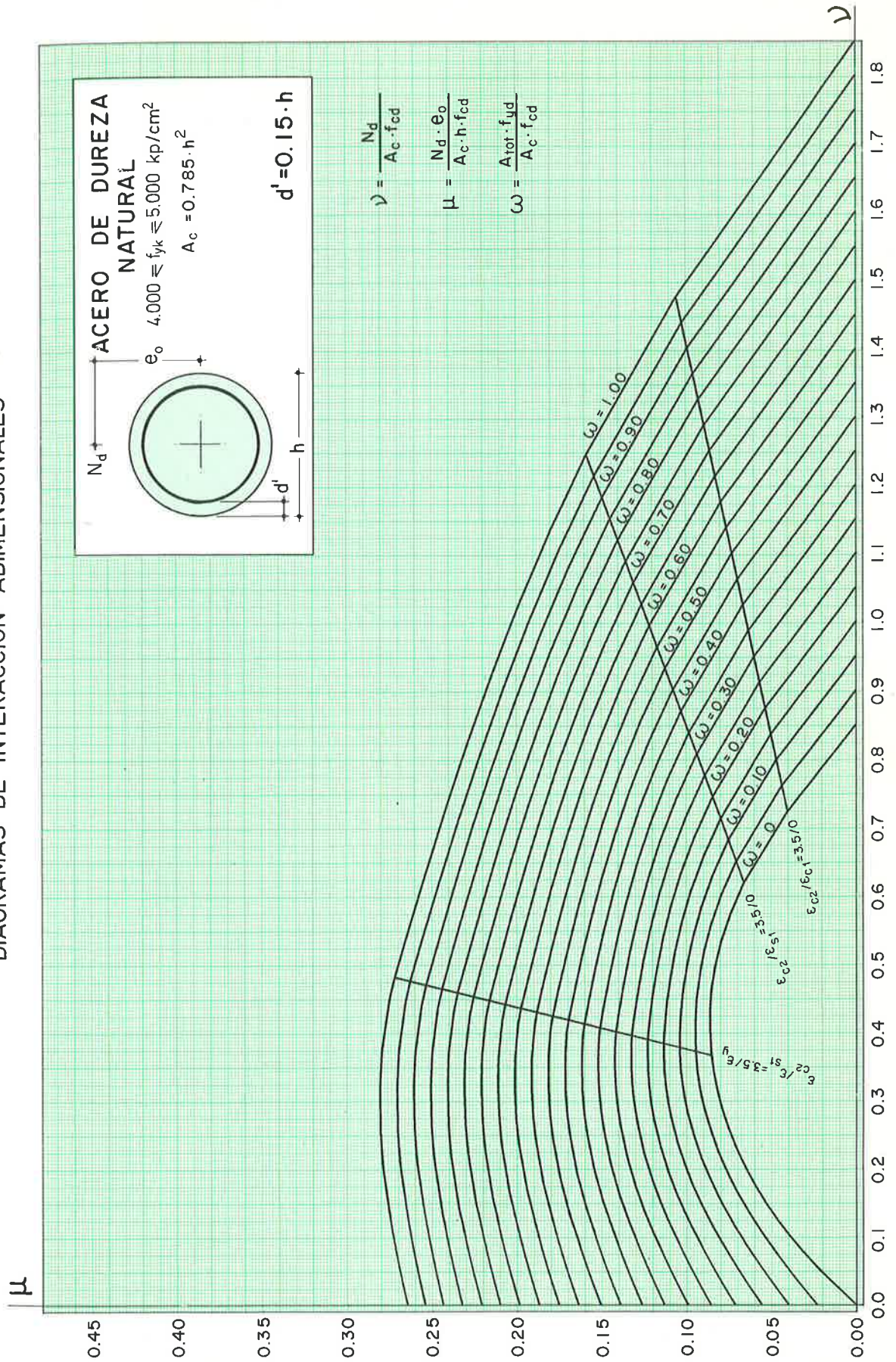
DIAGRAMAS DE INTERACCION ADIMENSIONALES



DIAGRAMAS DE INTERACCION ADIMENSIONALES

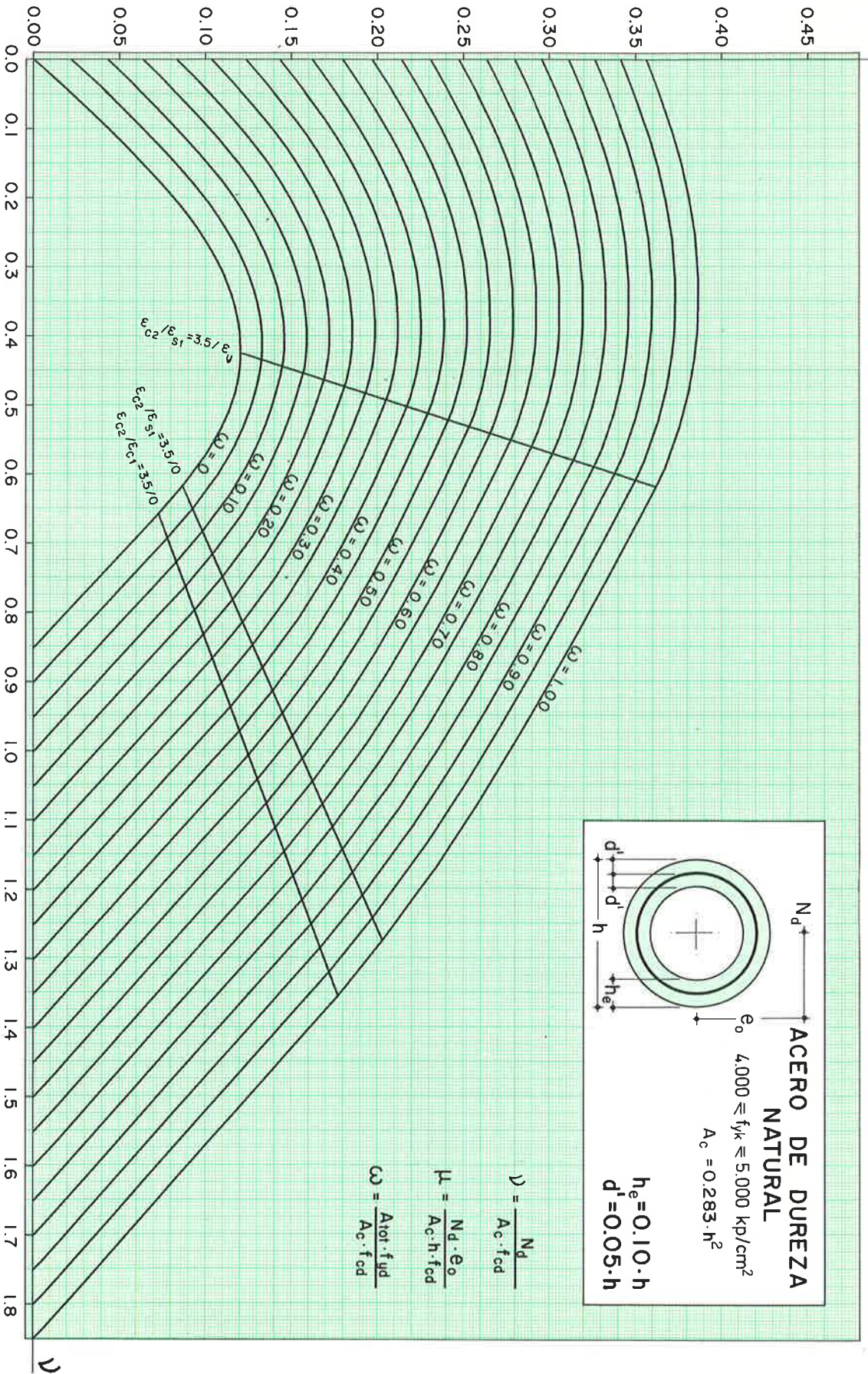


DIAGRAMAS DE INTERACCION ADIMENSIONALES

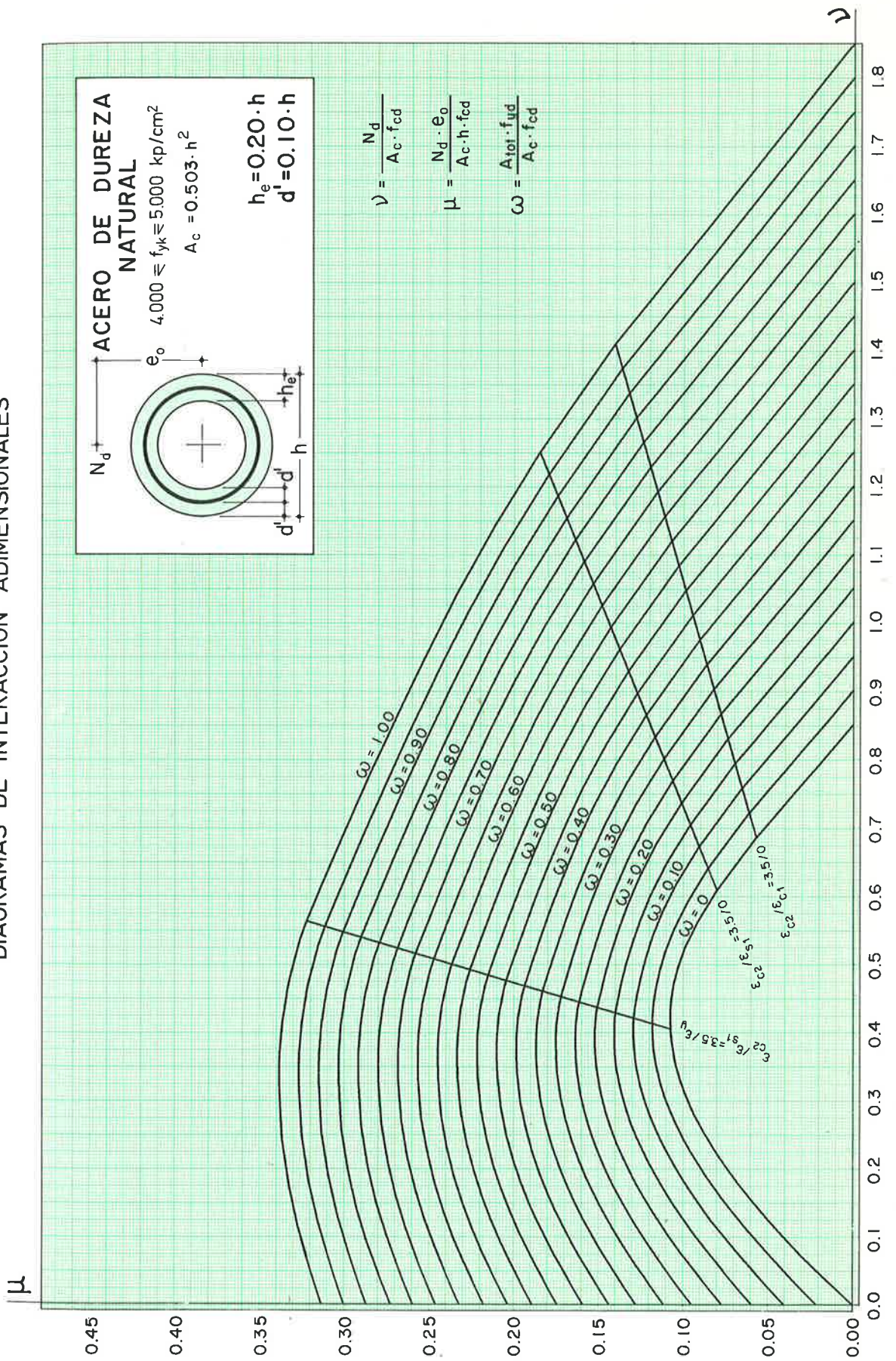


μ

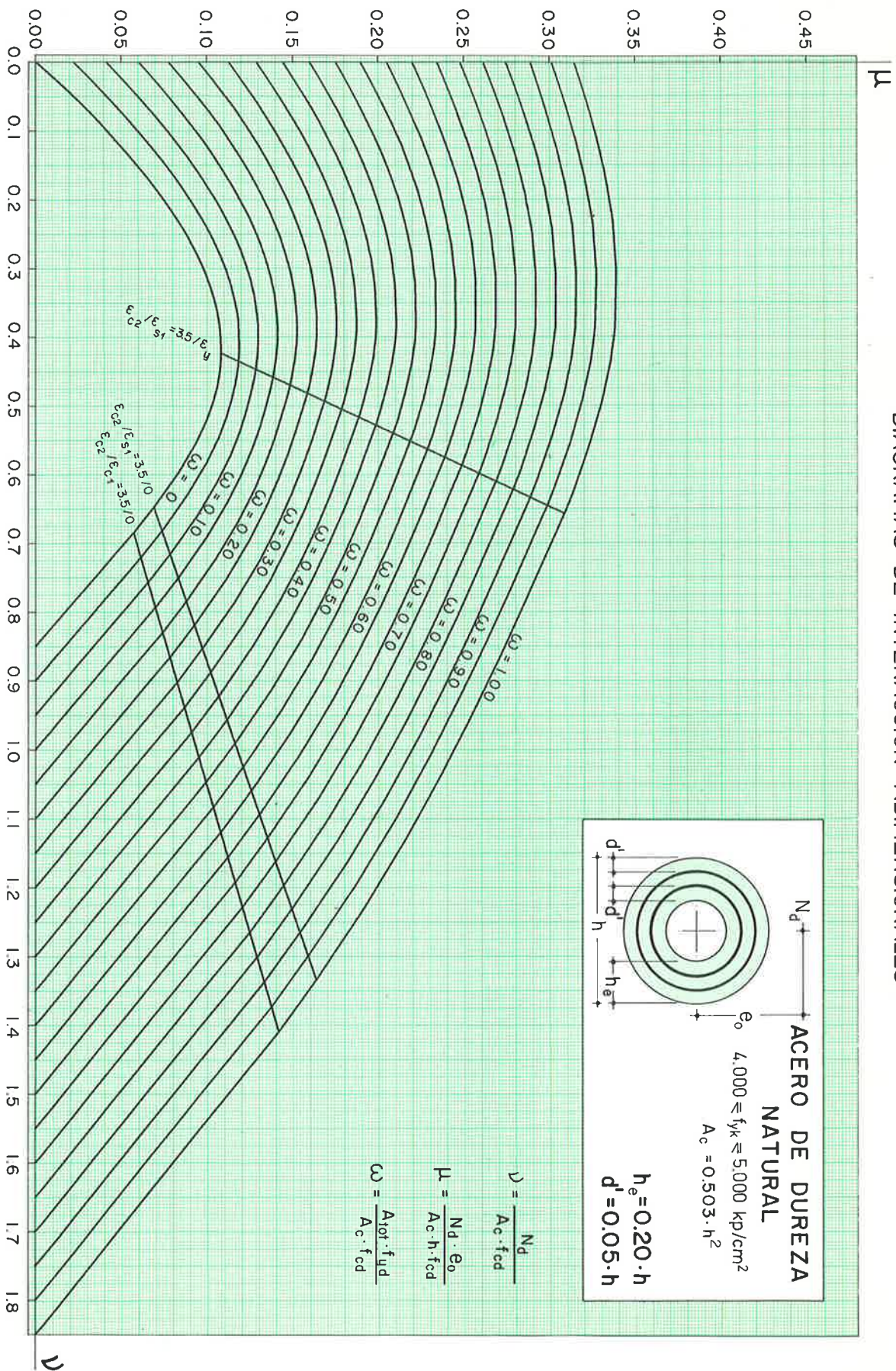
DIAGRAMAS DE INTERACCION ADIMENSIONALES



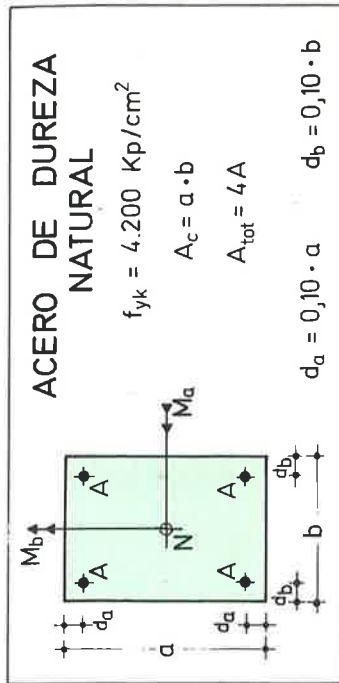
DIAGRAMAS DE INTERACCION ADIMENSIONALES



DIAGRAMAS DE INTERACCION ADIMENSIONALES



ABACO EN ROSETA PARA FLEXION ESVIADA



$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

$$\mu_b = \frac{M_{bd}}{A_c \cdot b \cdot f_{cd}}$$

$$\nu = \frac{N_d}{A_c \cdot f_{cd}}$$

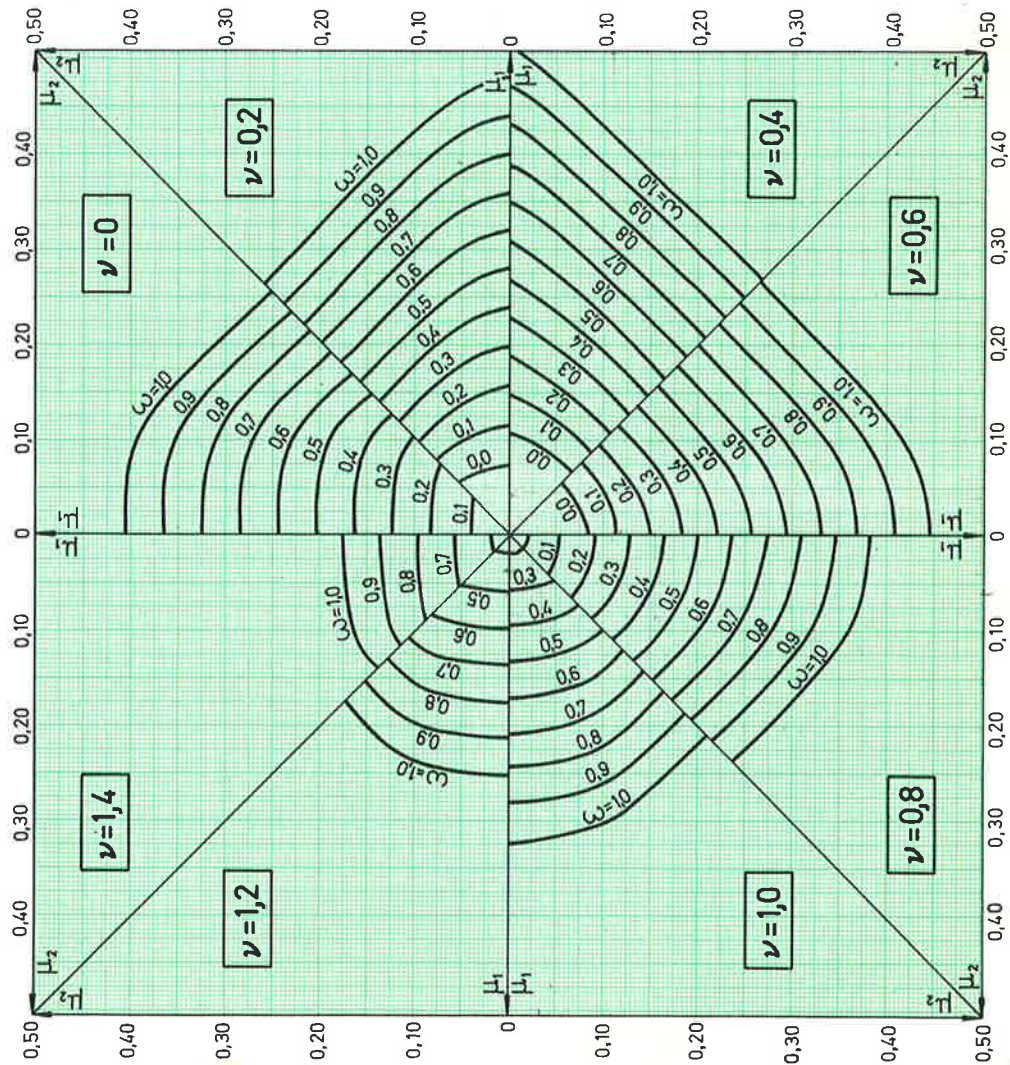
$$\omega = \frac{A_{tot} \cdot f_{yd}}{A_c \cdot f_{cd}}$$

si $\mu_a > \mu_b$:

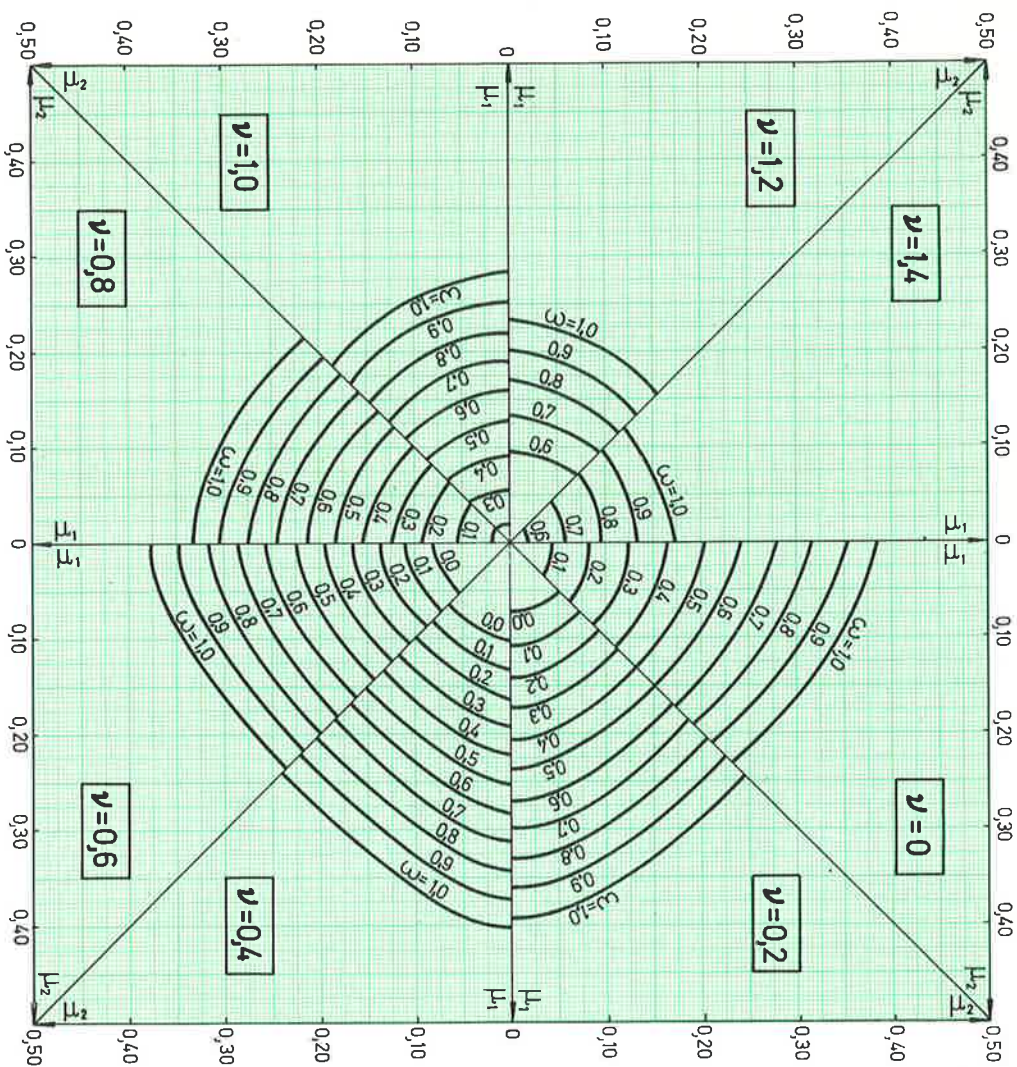
$$\mu_1 = \mu_a, \quad \mu_2 = \mu_b$$

si $\mu_a < \mu_b$:

$$\mu_1 = \mu_b, \quad \mu_2 = \mu_a$$



ABACO EN ROSETA PARA FLEXION ESVIADA



ACERO DE DUREZA NATURAL

$f_{yk} = 4.200 \text{ Kp/cm}^2$

$A_c = a \cdot b$

$A_{tot} = 8A$

$d_a = 0,10 \cdot a$ $d_b = 0,10 \cdot b$

$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

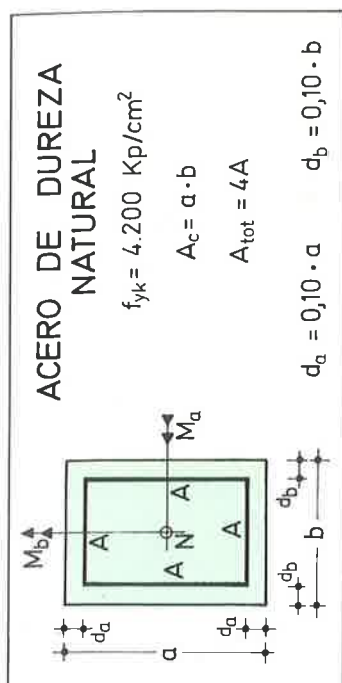
$$\mu_b = \frac{M_{bd}}{A_c \cdot b \cdot f_{cd}}$$

$$\nu = \frac{N_d}{A_c \cdot f_{cd}}$$

$$\omega = \frac{A_{tot} \cdot f_{yd}}{A_c \cdot f_{cd}}$$

si $\mu_a > \mu_b$: $\mu_1 = \mu_a$, $\mu_2 = \mu_b$
 si $\mu_a < \mu_b$: $\mu_1 = \mu_b$, $\mu_2 = \mu_a$

ABACO EN ROSETA PARA FLEXION ESVIADA



$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

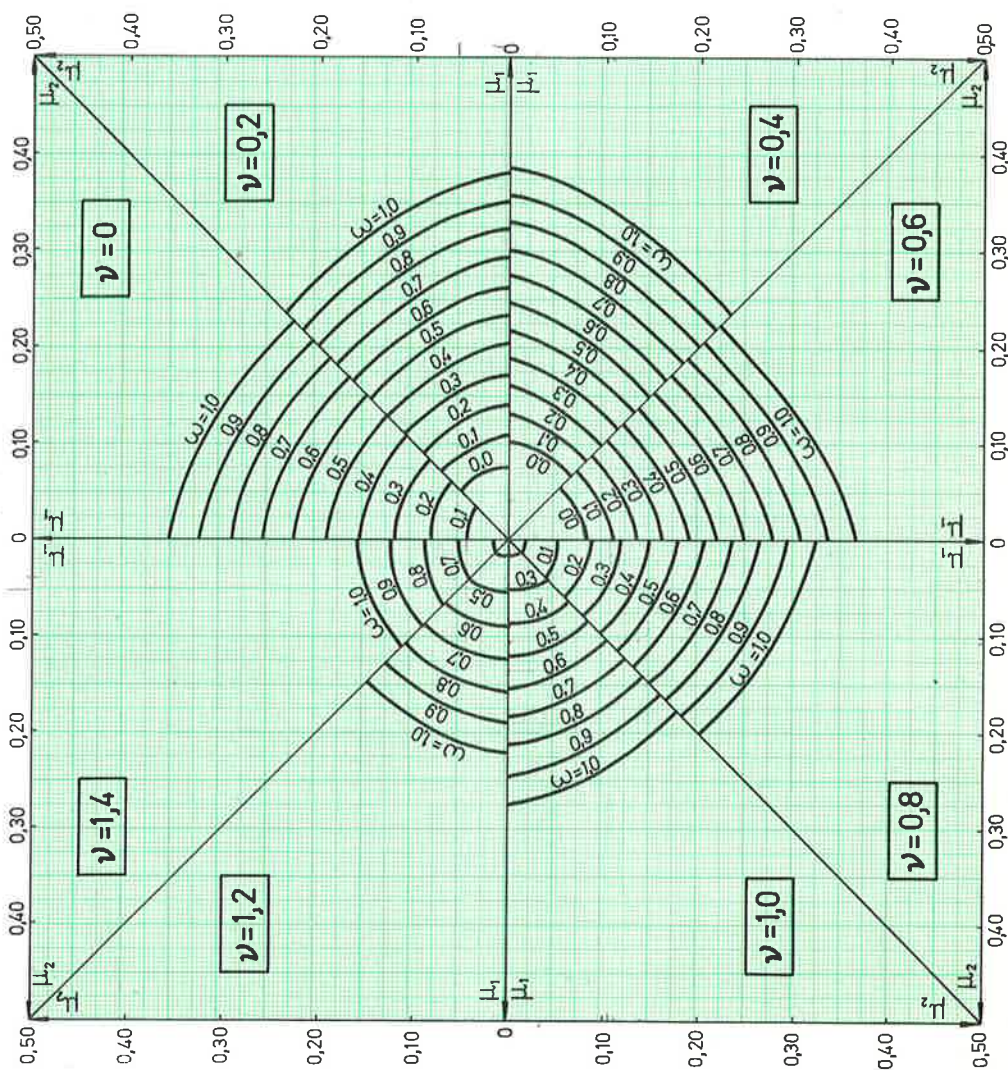
$$\mu_b = \frac{M_{bd}}{A_c \cdot b \cdot f_{cd}}$$

$$\nu = \frac{N_d}{A_c \cdot f_{cd}}$$

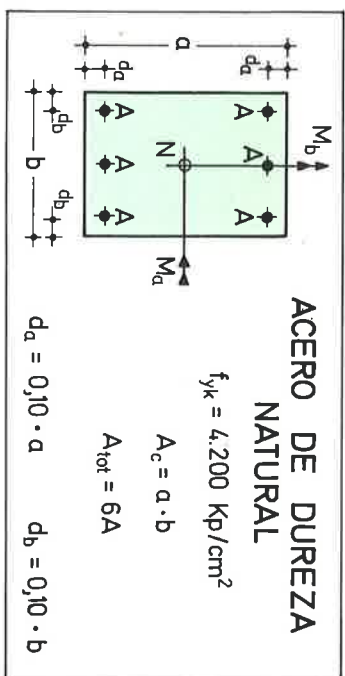
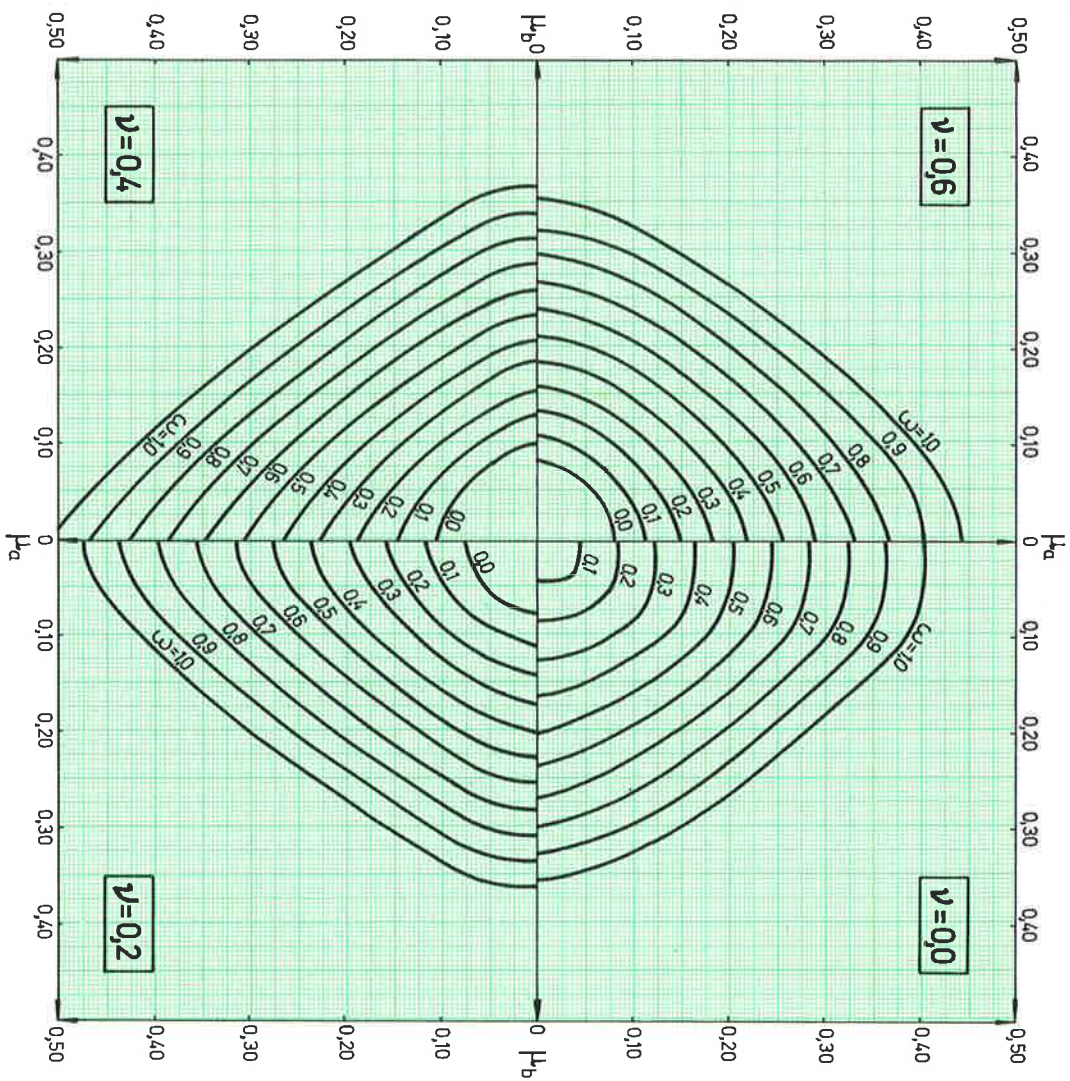
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ABACO EN ROSETA PARA FLEXION ESVIADA



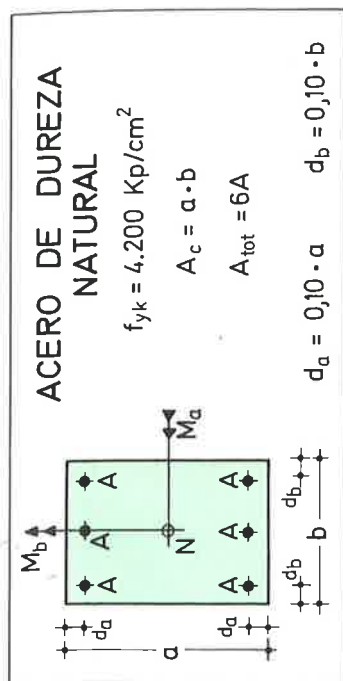
$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

$$\mu_b = \frac{M_{bd}}{A_c \cdot b \cdot f_{cd}}$$

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$$\omega = \frac{A_{tot} \cdot f_{yd}}{A_c \cdot f_{cd}}$$

ABACO EN ROSETA PARA FLEXION ESVIADA

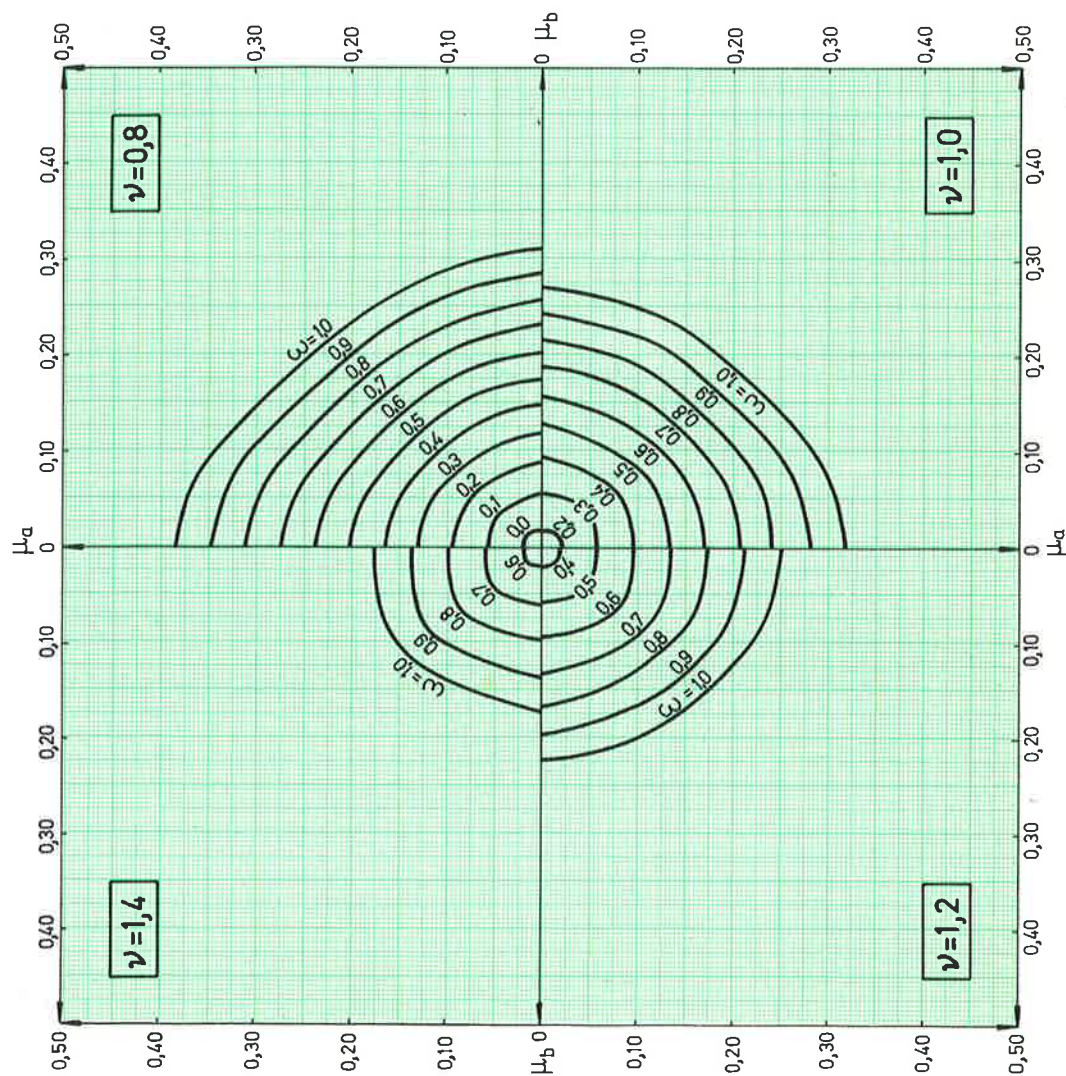


$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

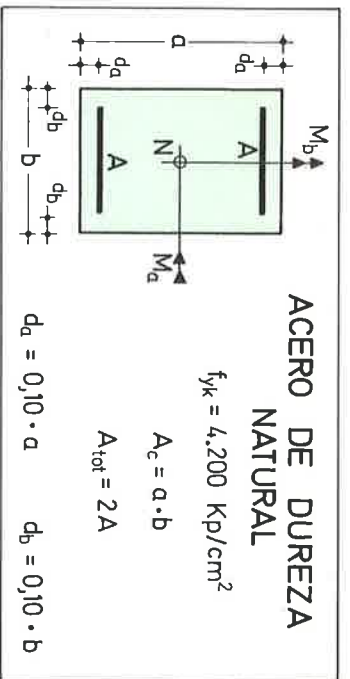
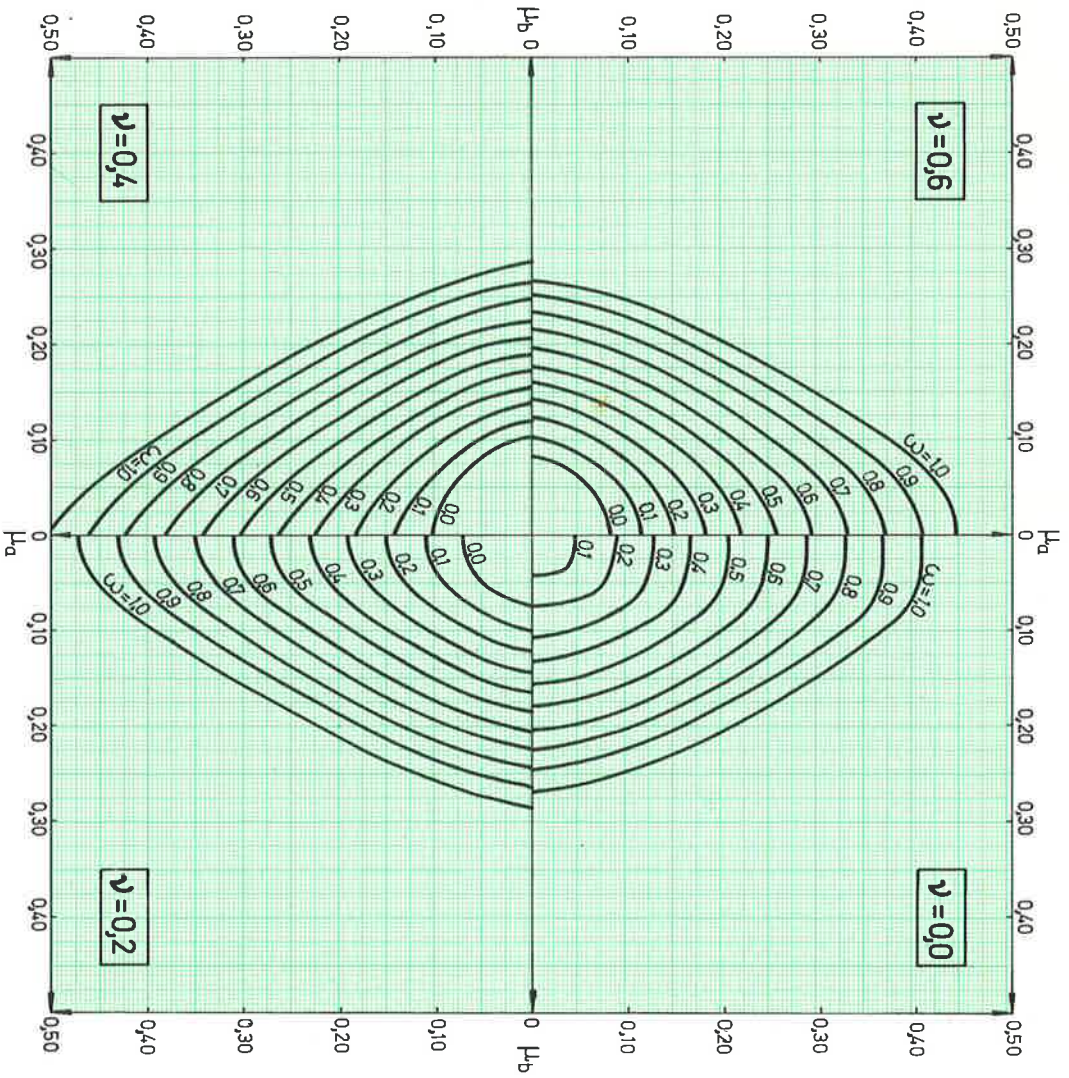
$$\mu_b = \frac{M_{bd}}{A_c \cdot b \cdot f_{cd}}$$

$$\nu = \frac{N_d}{A_c \cdot f_{cd}}$$

$$\omega = \frac{A_{tot} \cdot f_{yd}}{A_c \cdot f_{cd}}$$



ABACO EN ROSETA PARA FLEXION ESVIADA



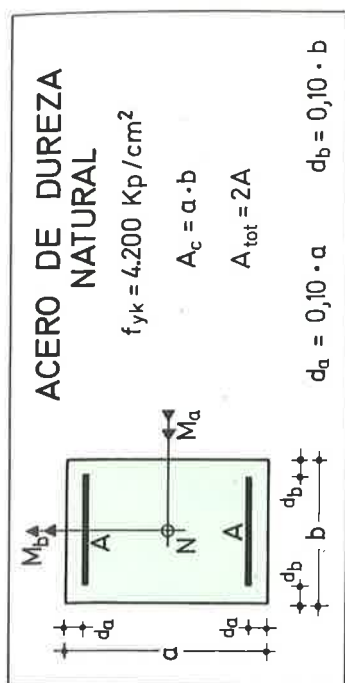
$$\mu_a = \frac{M_{ad}}{A_c \cdot a \cdot f_{cd}}$$

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ABACO EN ROSETA PARA FLEXION ESVIADA



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