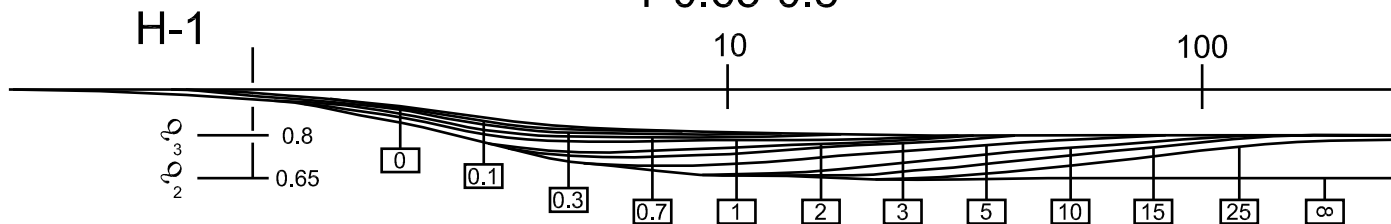
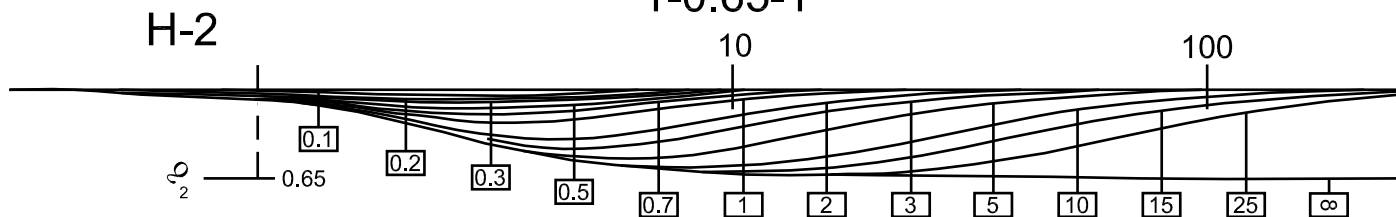


TWO-LAYERS CURVES - CURVAS DE DOS CAPAS

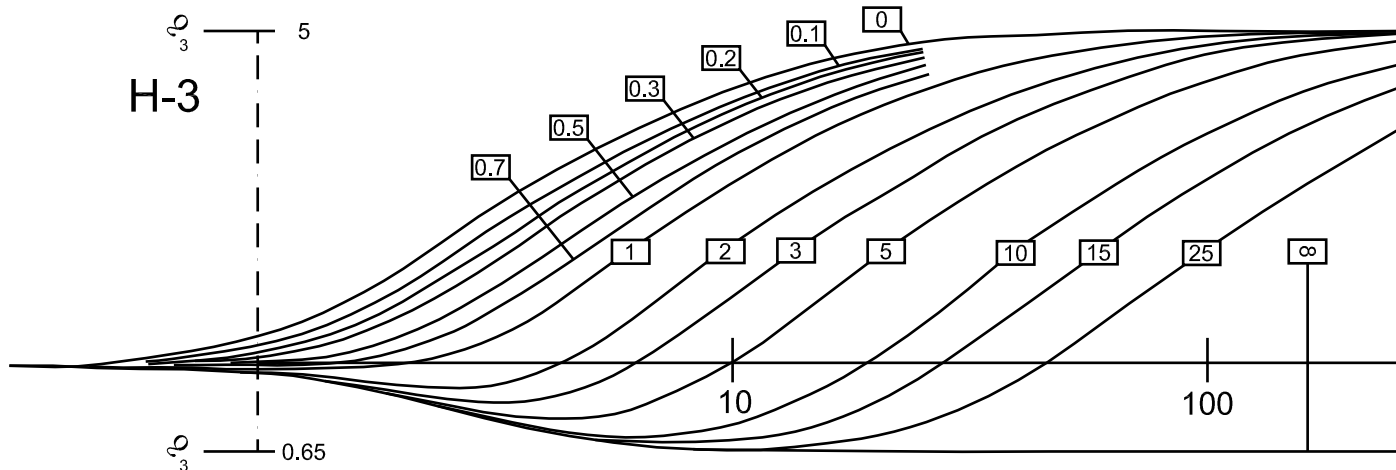
1-0.65-0.8



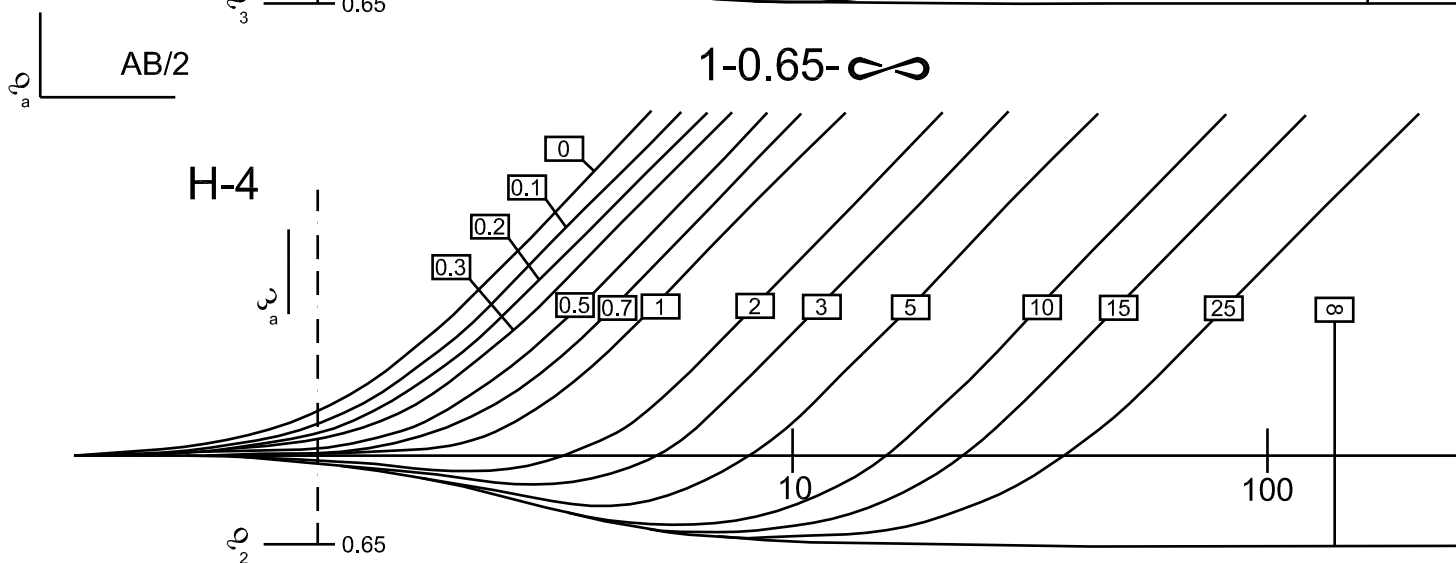
1-0.65-1



1-0.65-5



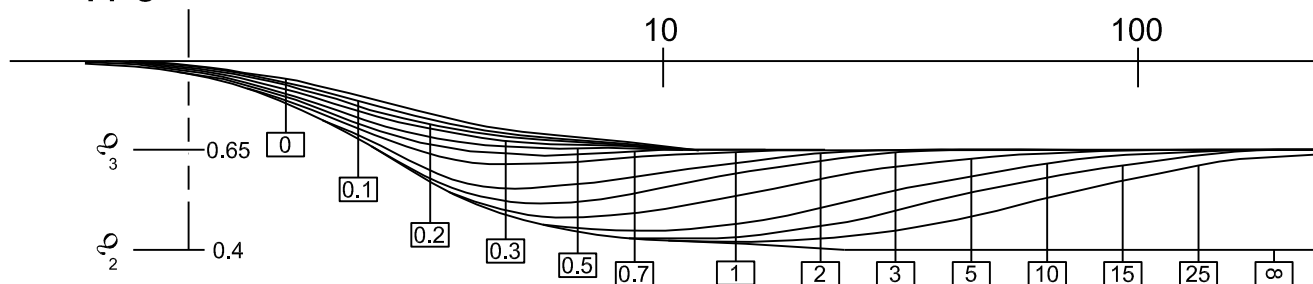
1-0.65- $\infty$



$$E_1 = 1; \varphi_1 = 1; E_2 = \square$$

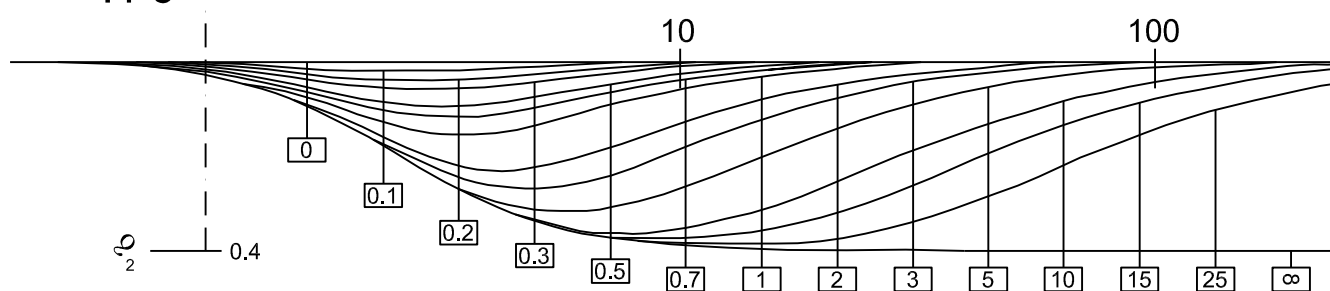
1-0.4-0.65

H-5



1-0.4-1

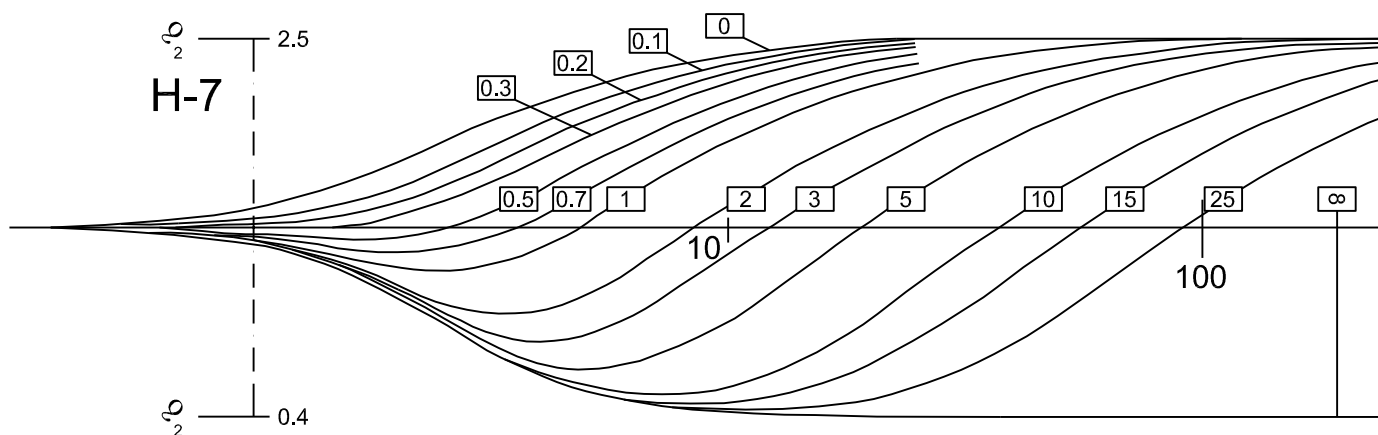
H-6



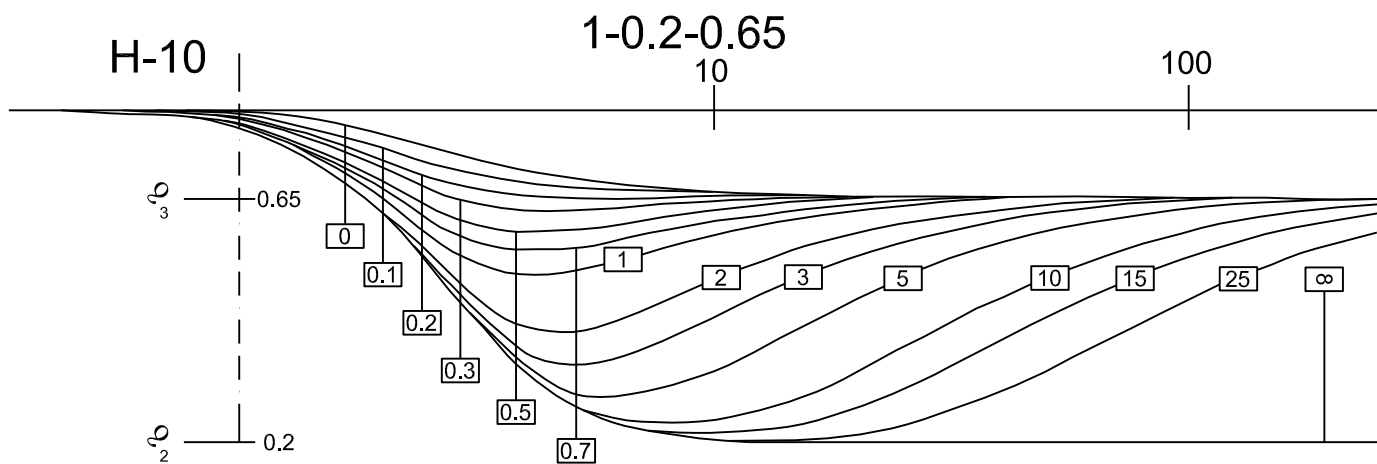
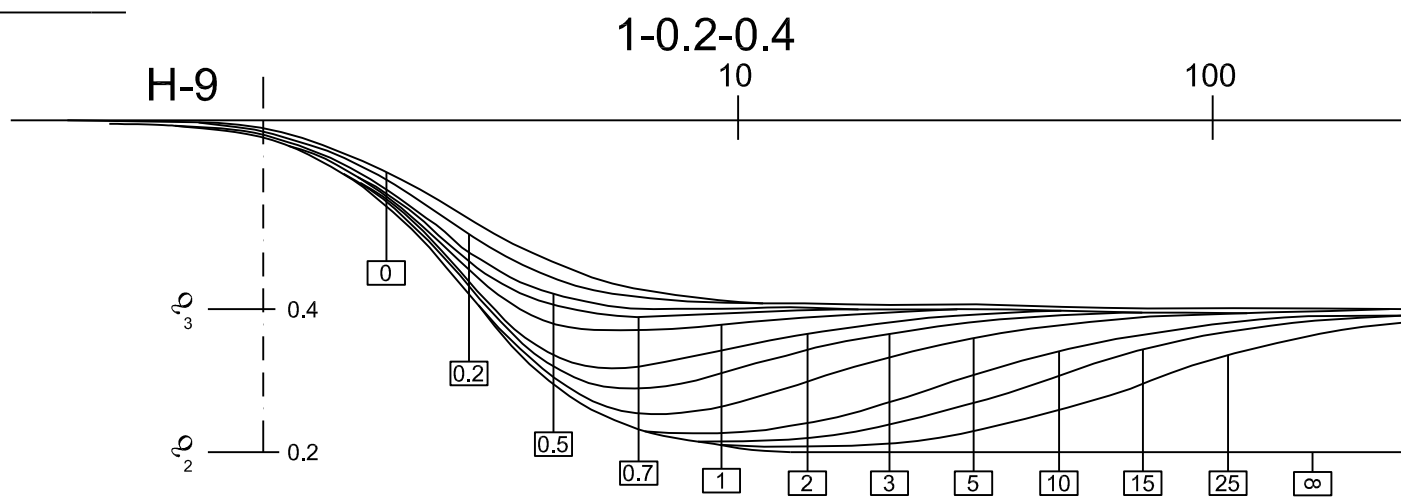
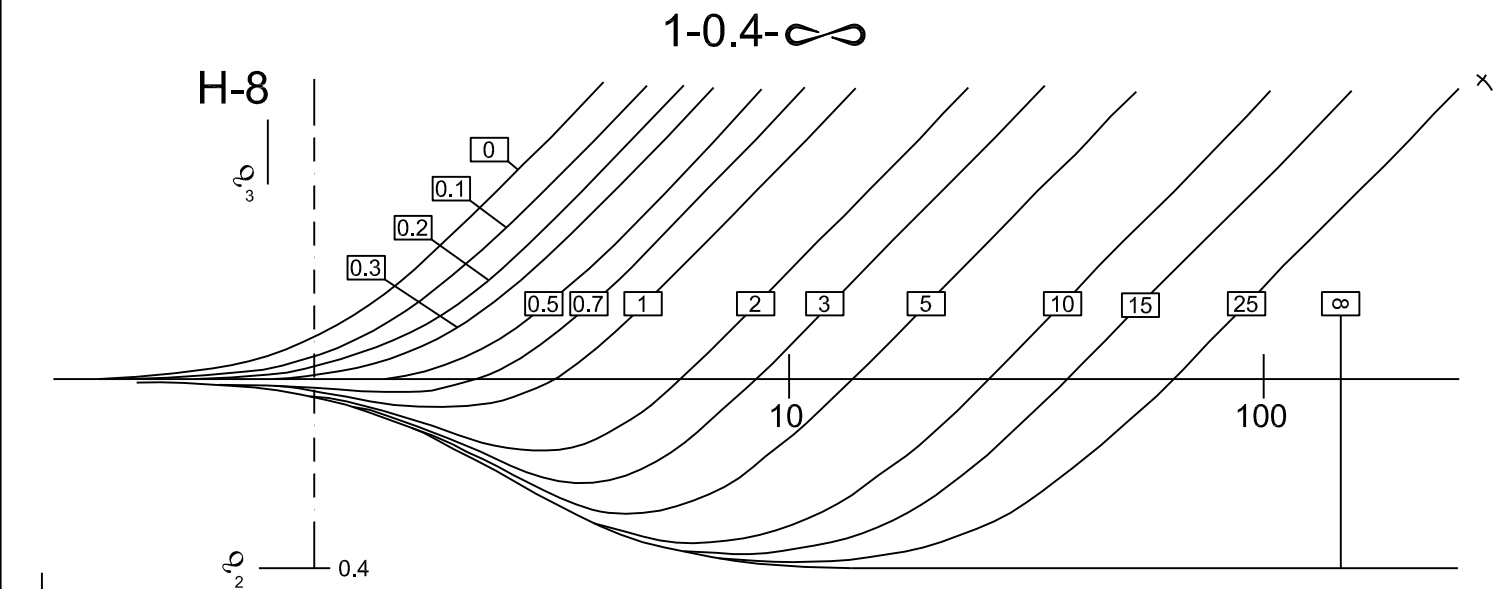
$\phi_a$  AB/2

1-0.4-2.5

H-7

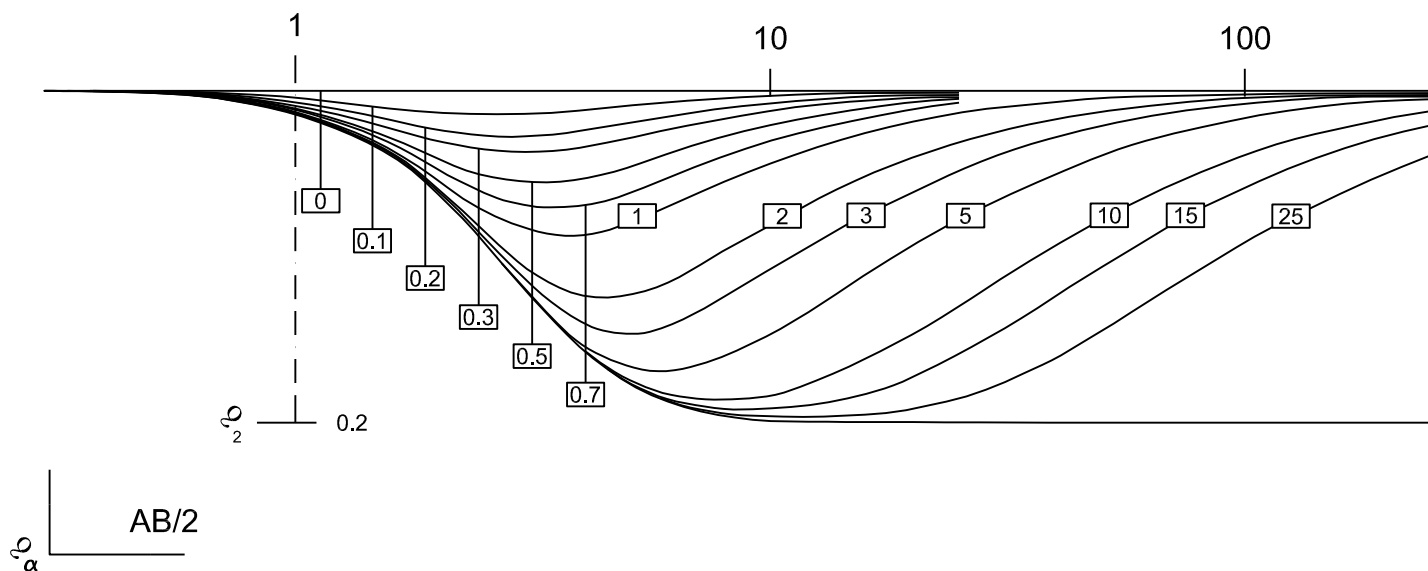


$$E_1 = 1; \varphi_1 = 1; E_2 = \square$$



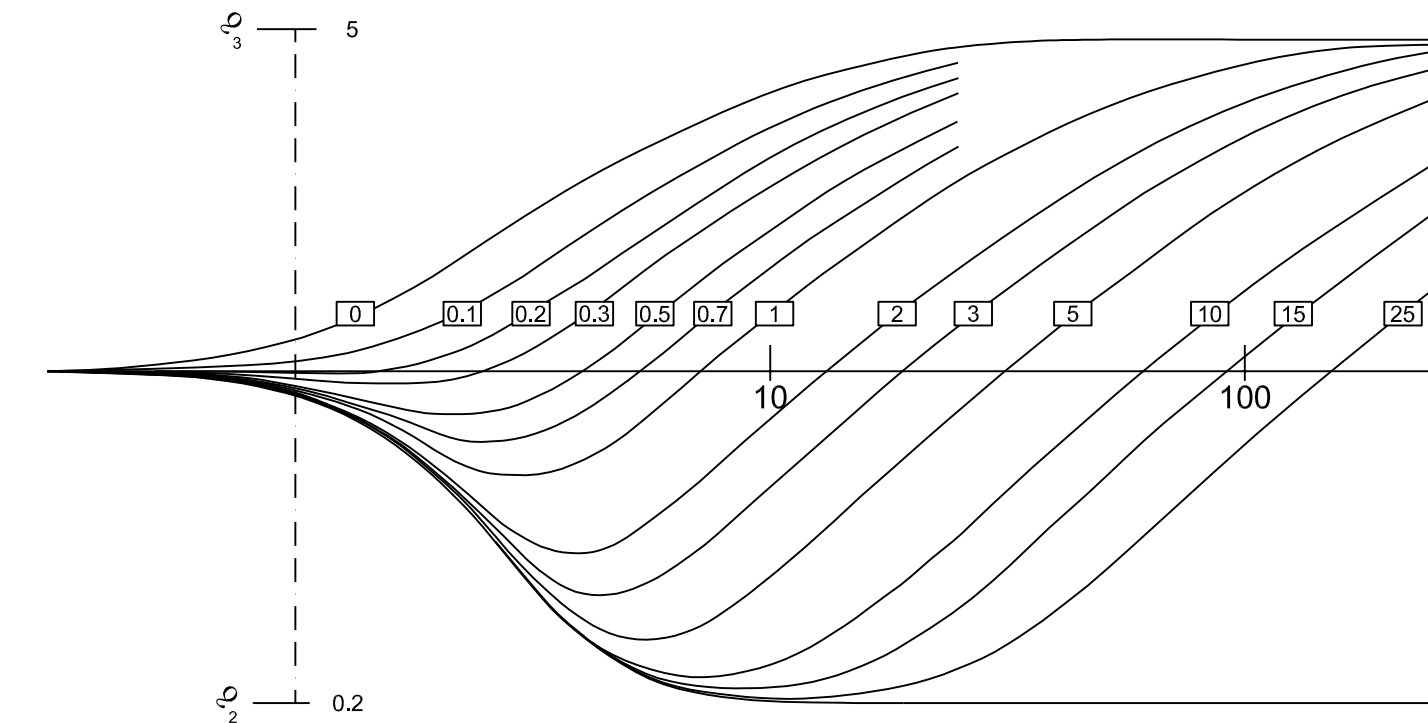
$E_1 = 1; \nu_1 = 1; E_2 = \square$

H-11



H-12

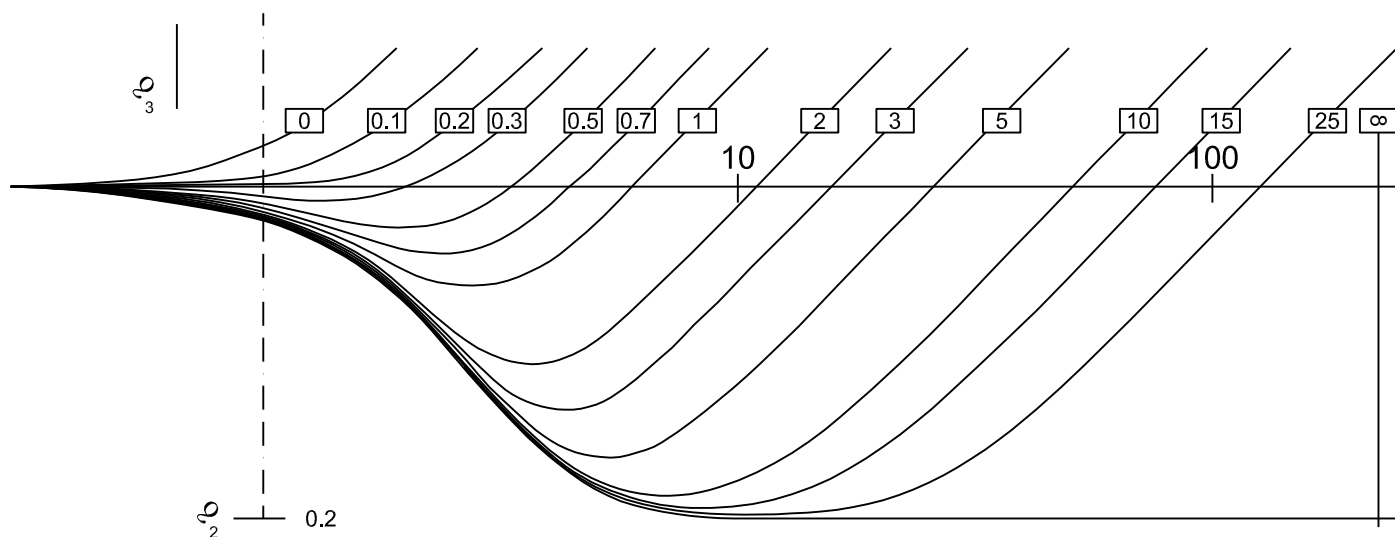
1-0.2-5



$$E_1 = 1 : \varphi_1 = 1 : E_2 = \square$$

H-13

1-0.2- $\infty$



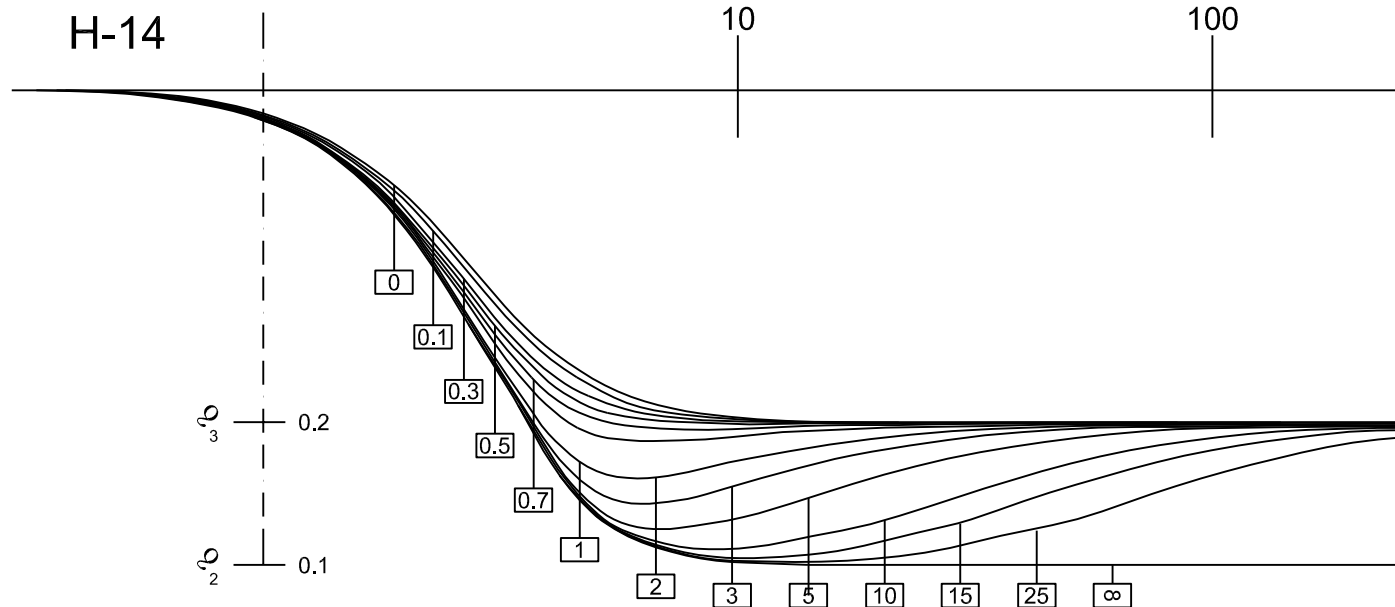
$\rho_\alpha$  AB/2

1-0.1-0.2

H-14

10

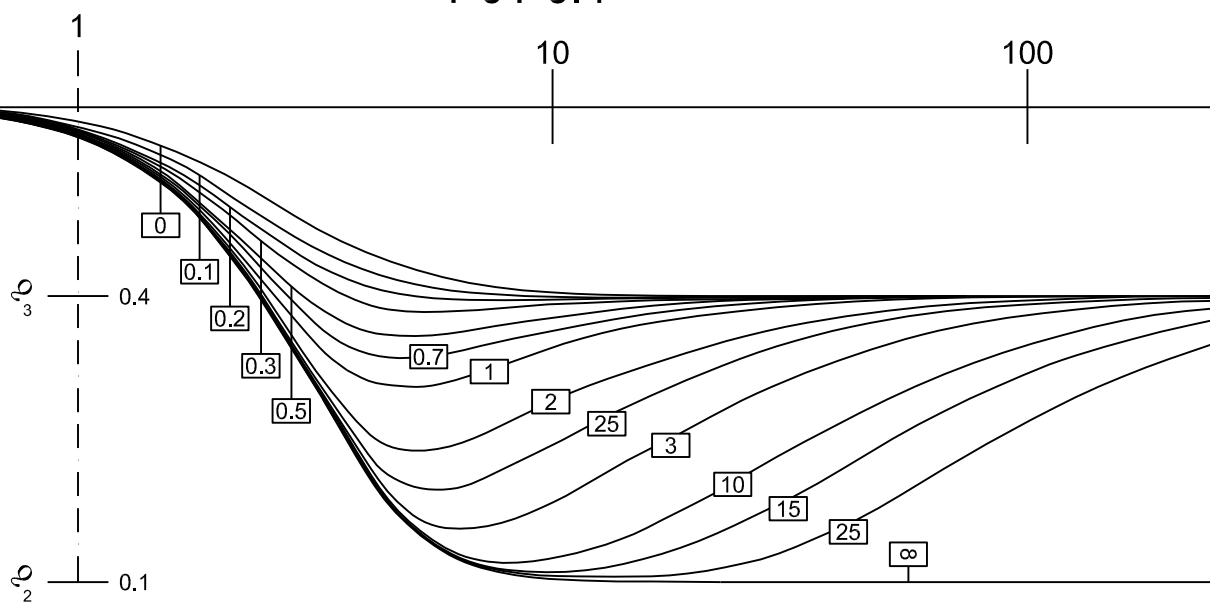
100



$$E_1 = 1: \varphi_1 = 1: E_2 = \square$$

1-01-0.4

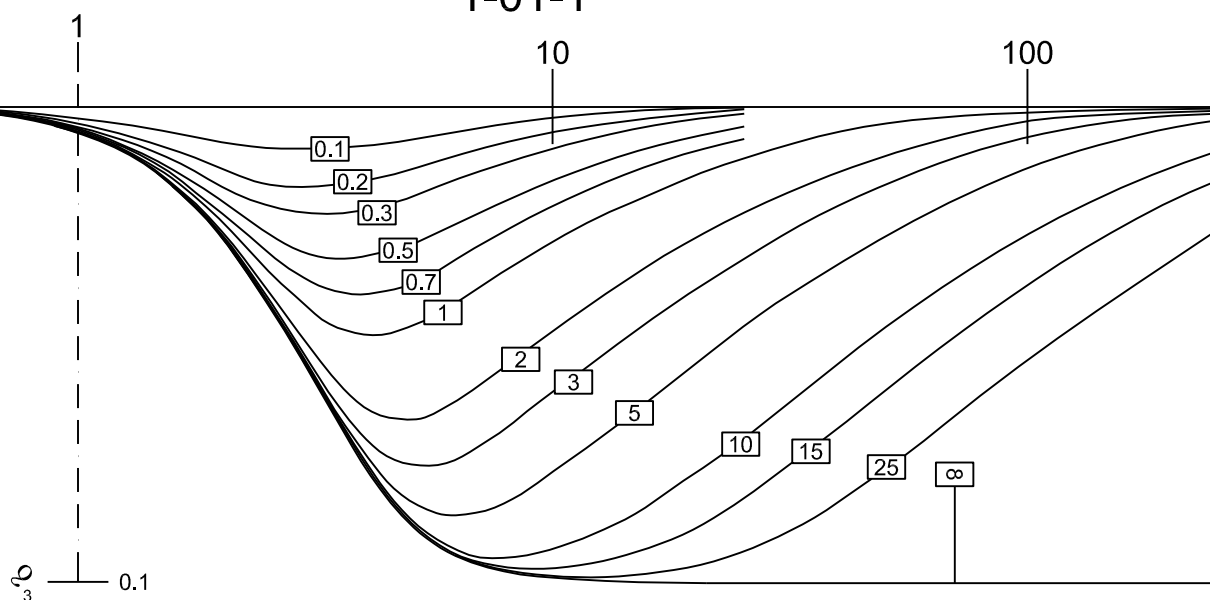
H-15



$\alpha$   $\frac{AB}{2}$

1-01-1

H-16

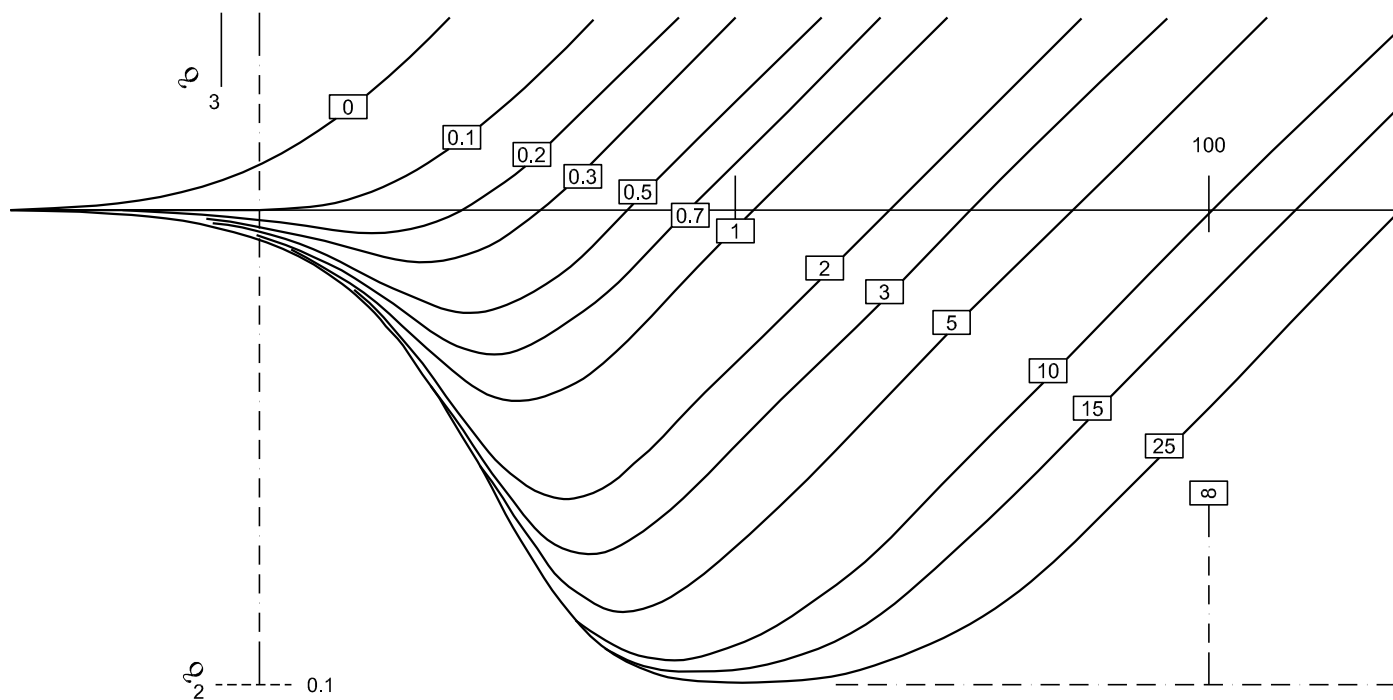


$$E_1 = 1 : \varphi = 1 : E_2 = \square$$

H-17

1-0.1- $\infty$

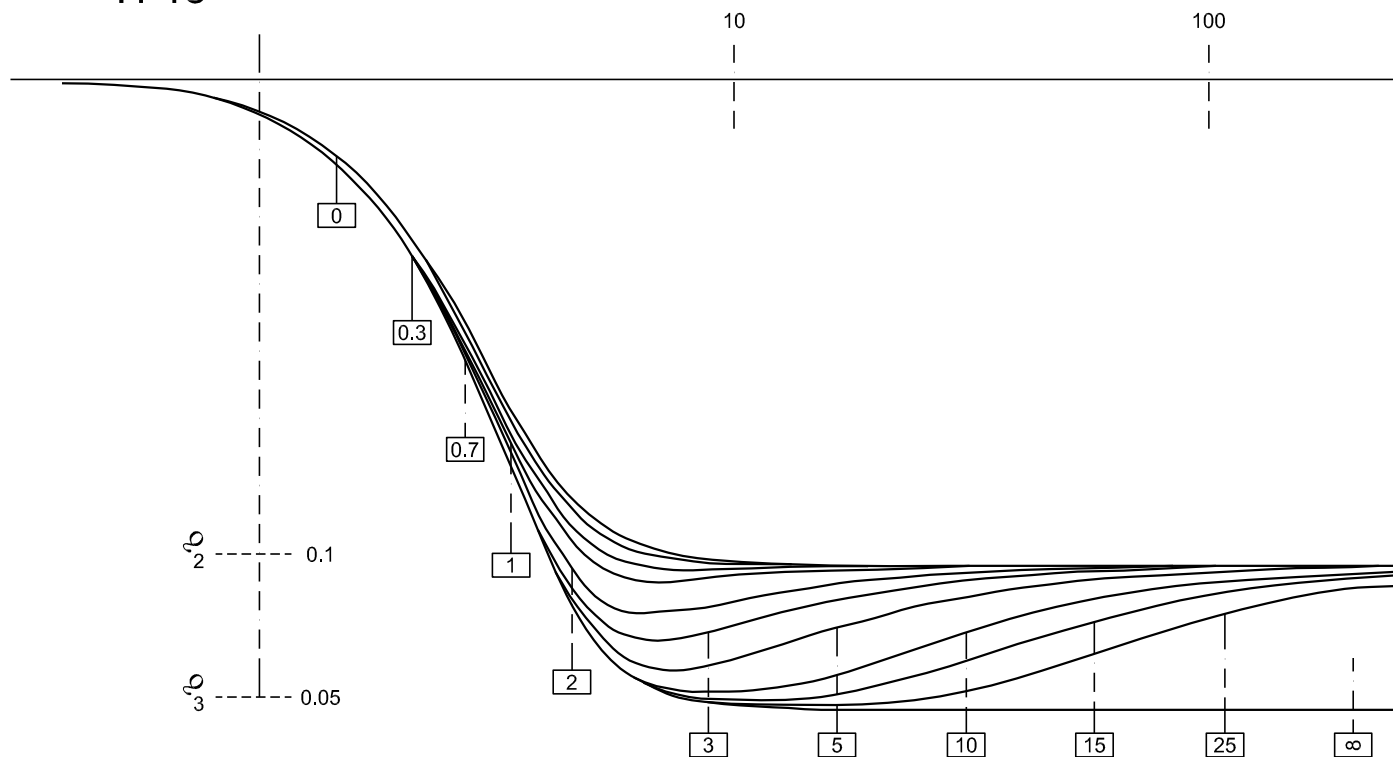
SHEET 8  
LAMINA



$\rho_\alpha$  AB/2

H-18

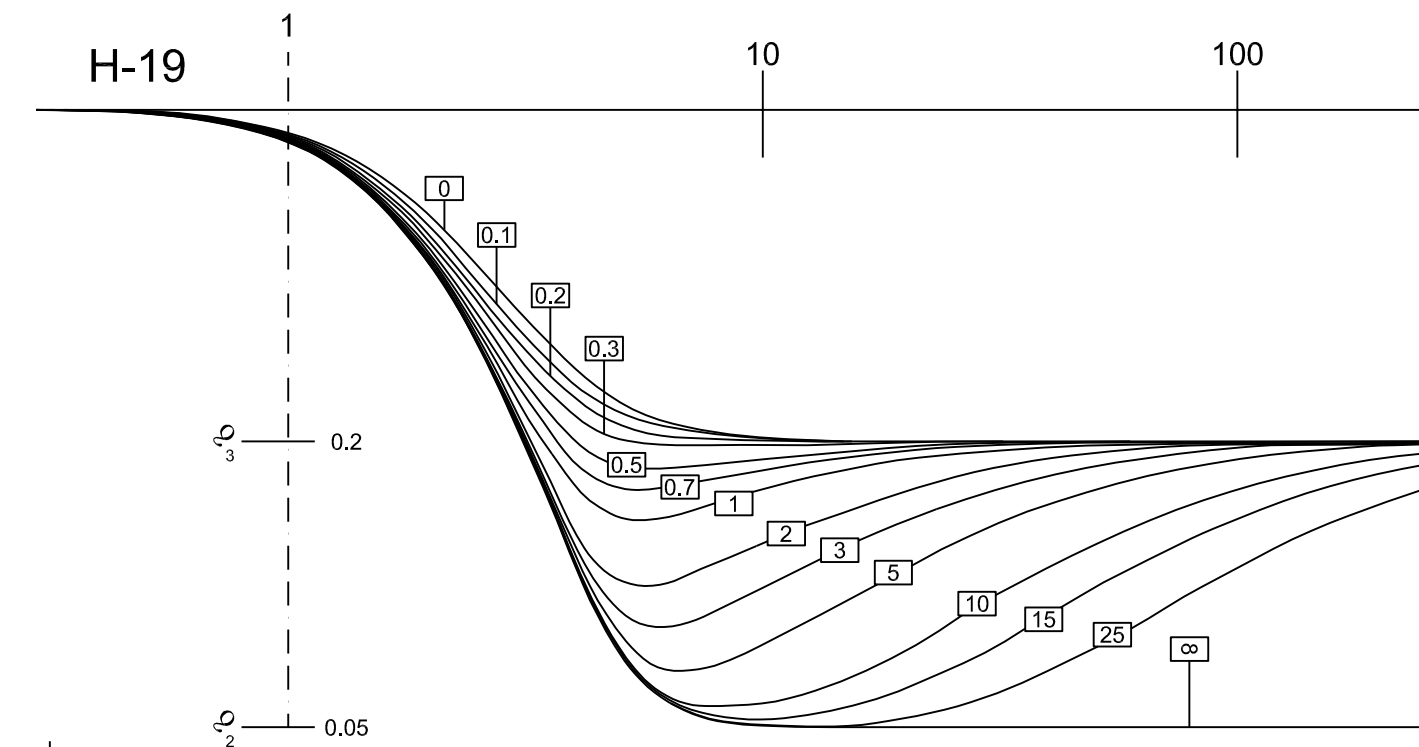
1-0.05-0.1



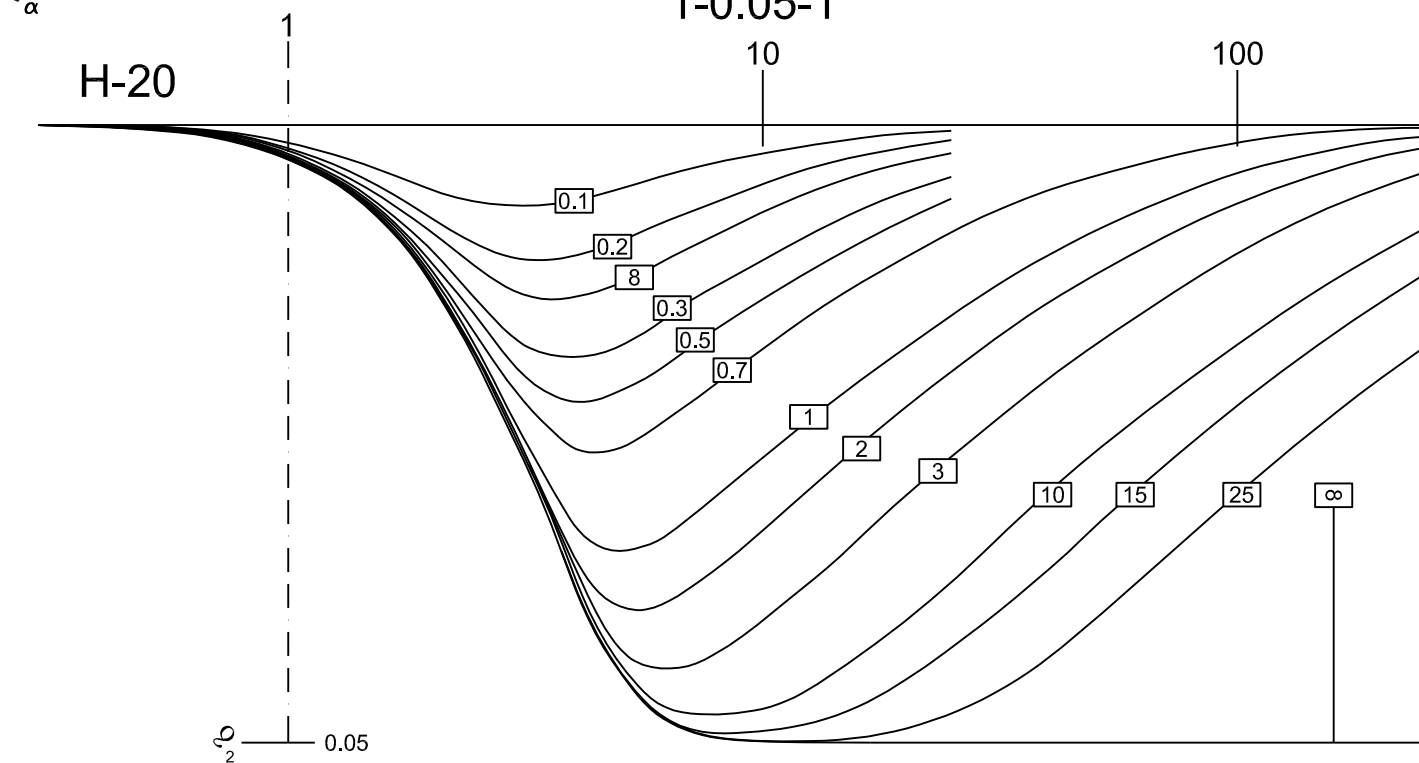
$$E_1 = 1; \rho_1 = 1; E_2 = \square$$



1-0.05-2



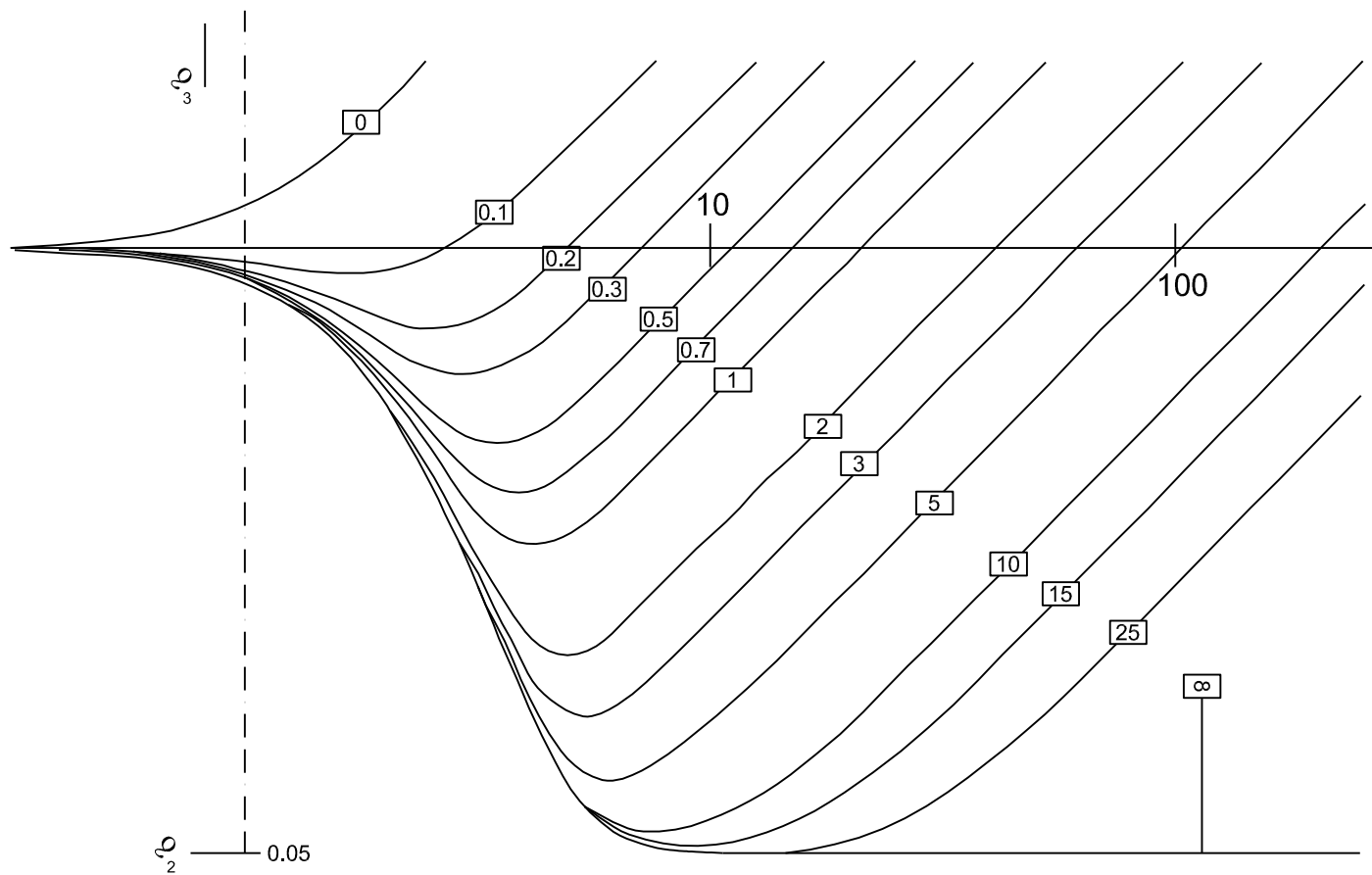
1-0.05-1



$E_1 = 1: \varphi_1 = 1: E_2 = \square$

H-21

1-0.05- $\infty$

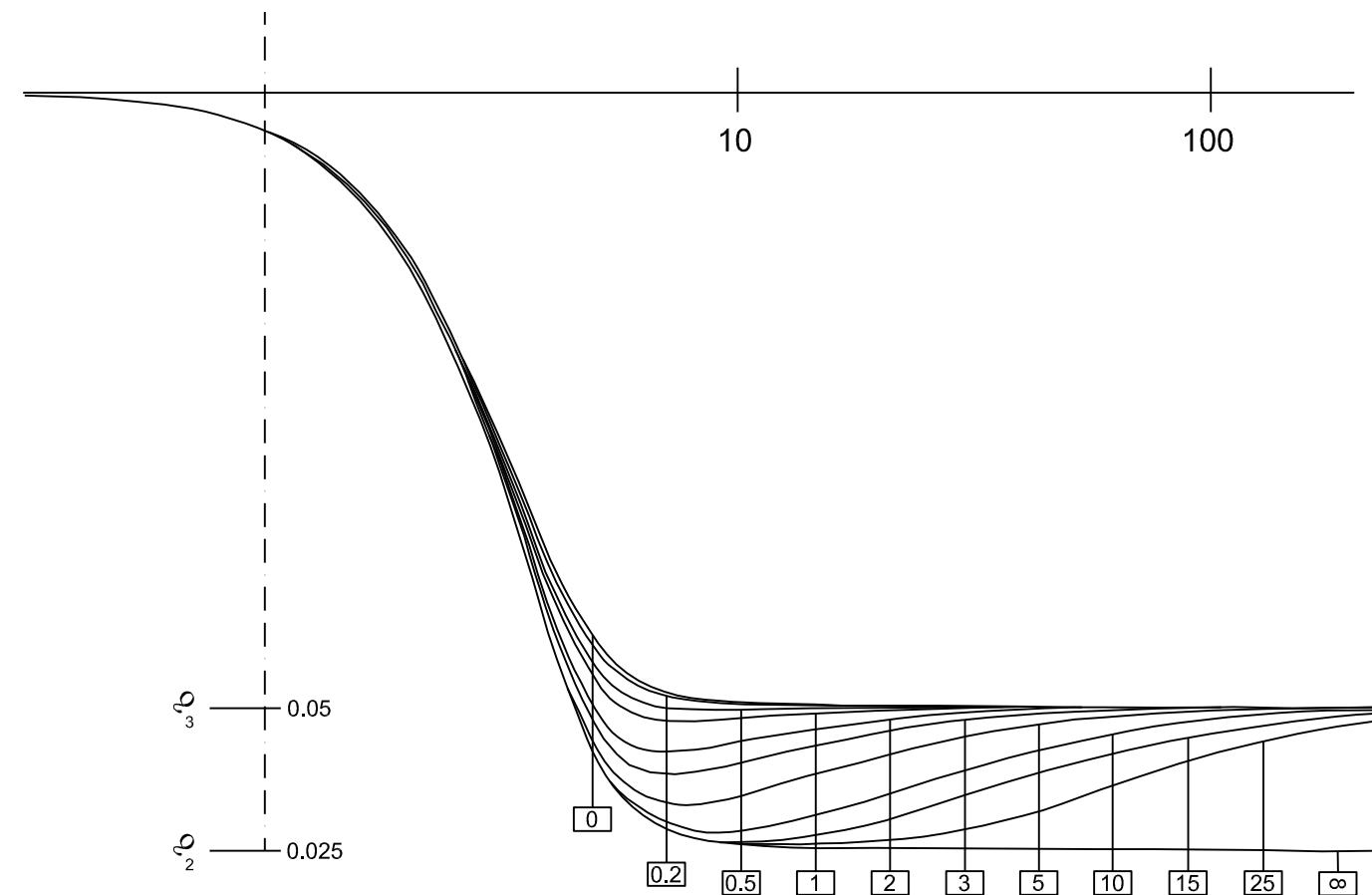


$\sigma_a$   $AB/2$

$E_1 = 1; \nu_1 = 1; E_2 = \square$

H-22

1-0.025-0.05

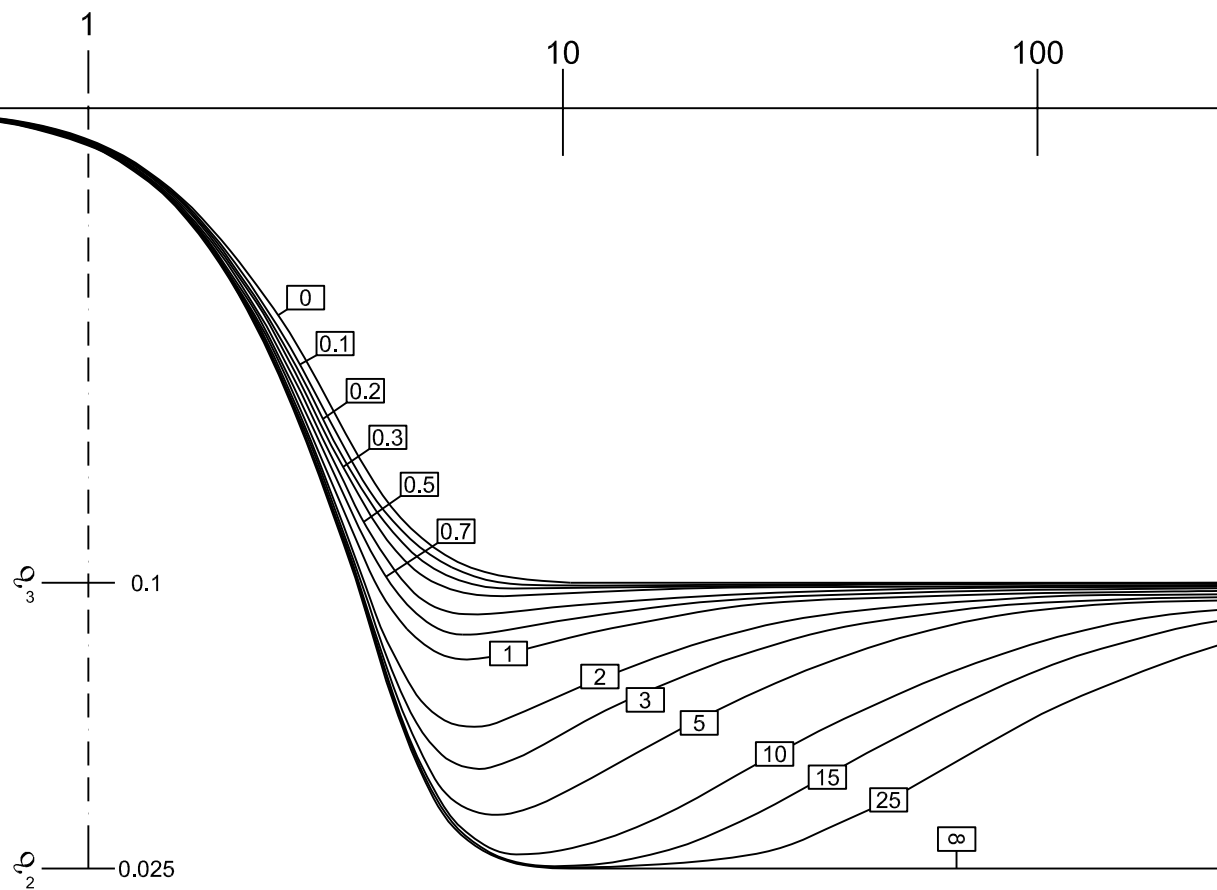


$\sigma_a$   $AB/2$

$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

1-0.025-01

H-23

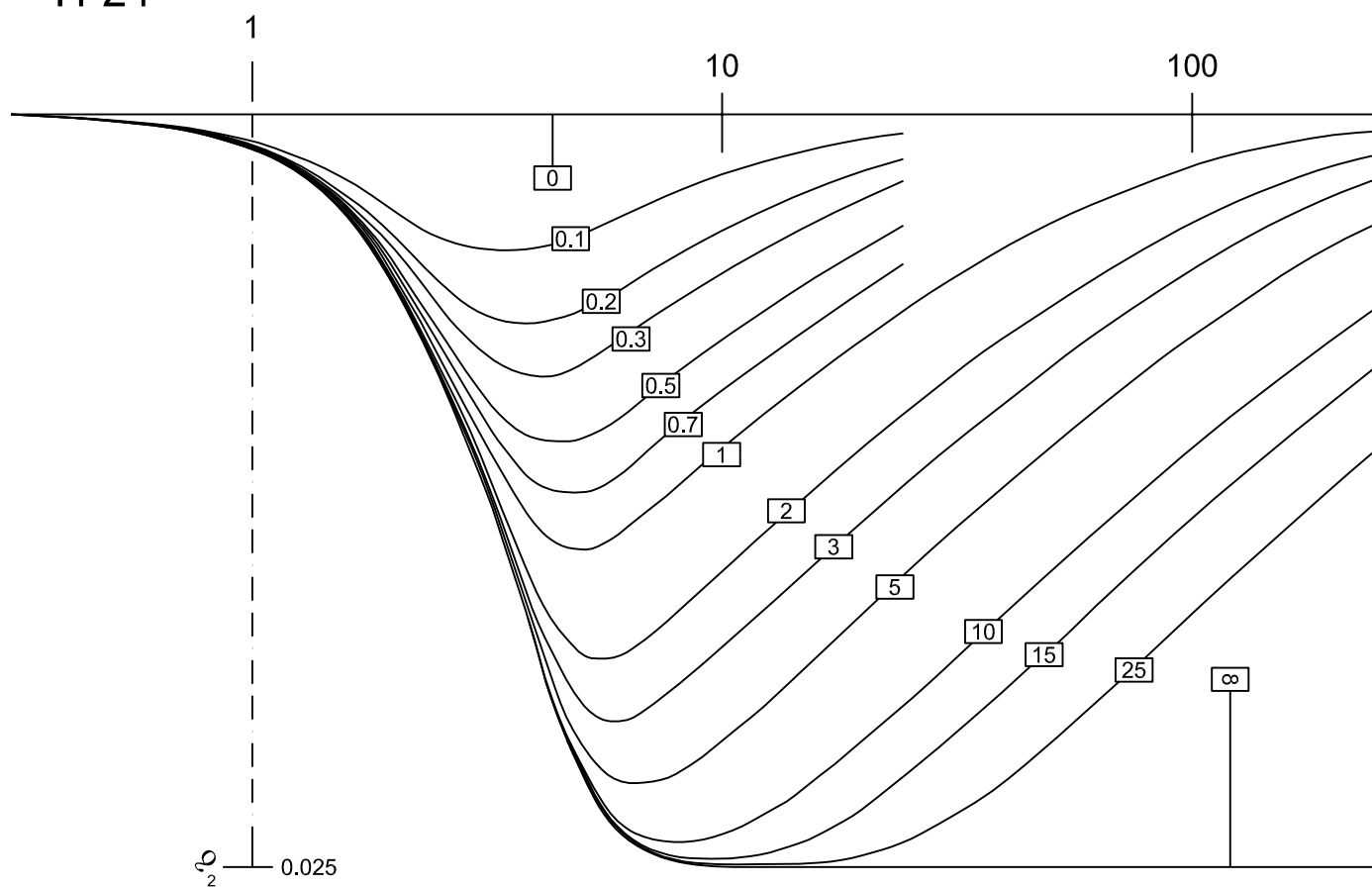


$\sigma_3$   $\sigma_2$   
 $AB/2$

$$E_1 = 1: \nu_1 = 1: E_2 = \square$$

1-0.025-1

H-24

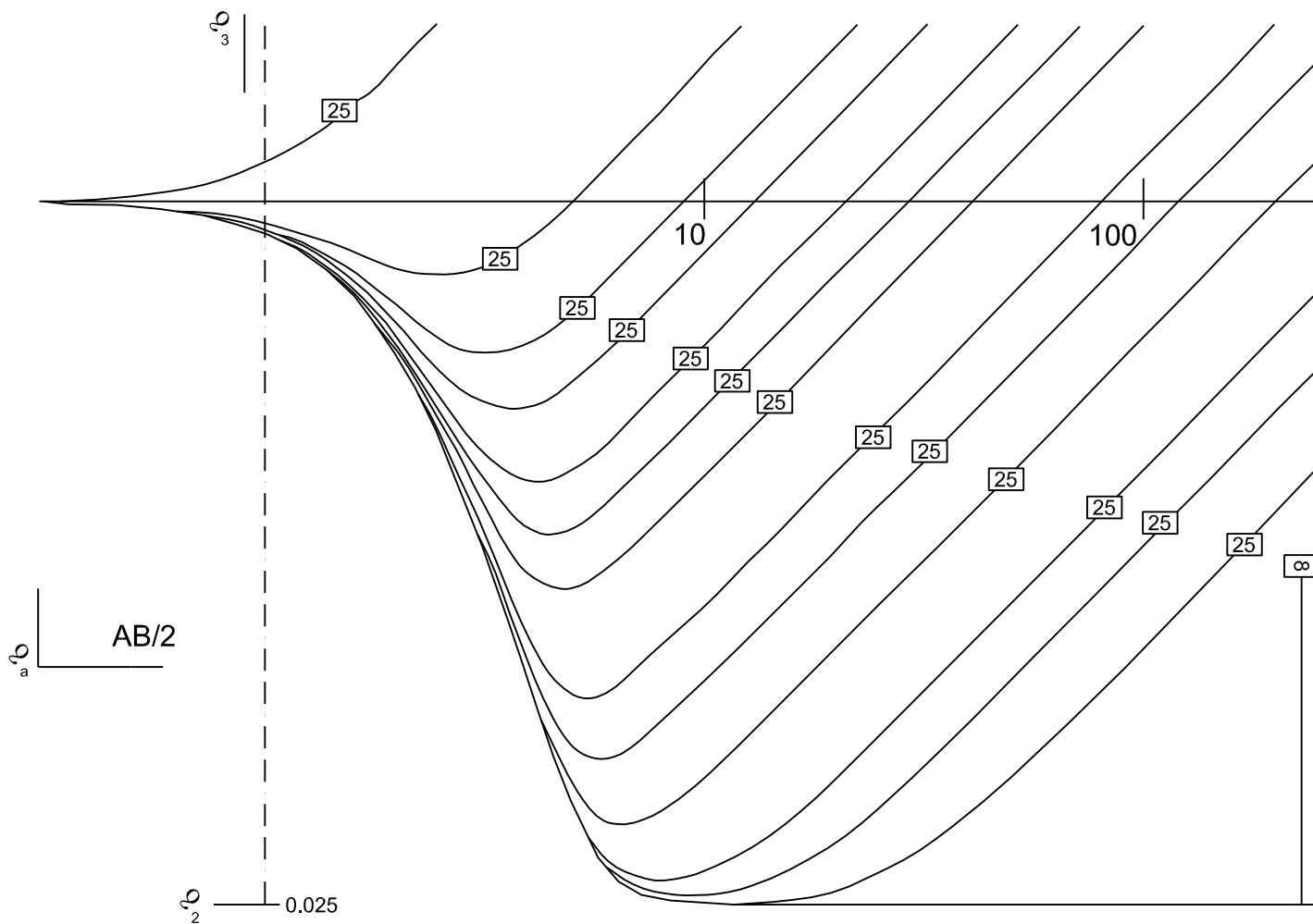


$\phi_2$   $AB/2$

$$E_1 = 1: \phi_1 = 1: E_2 = \square$$

H-25

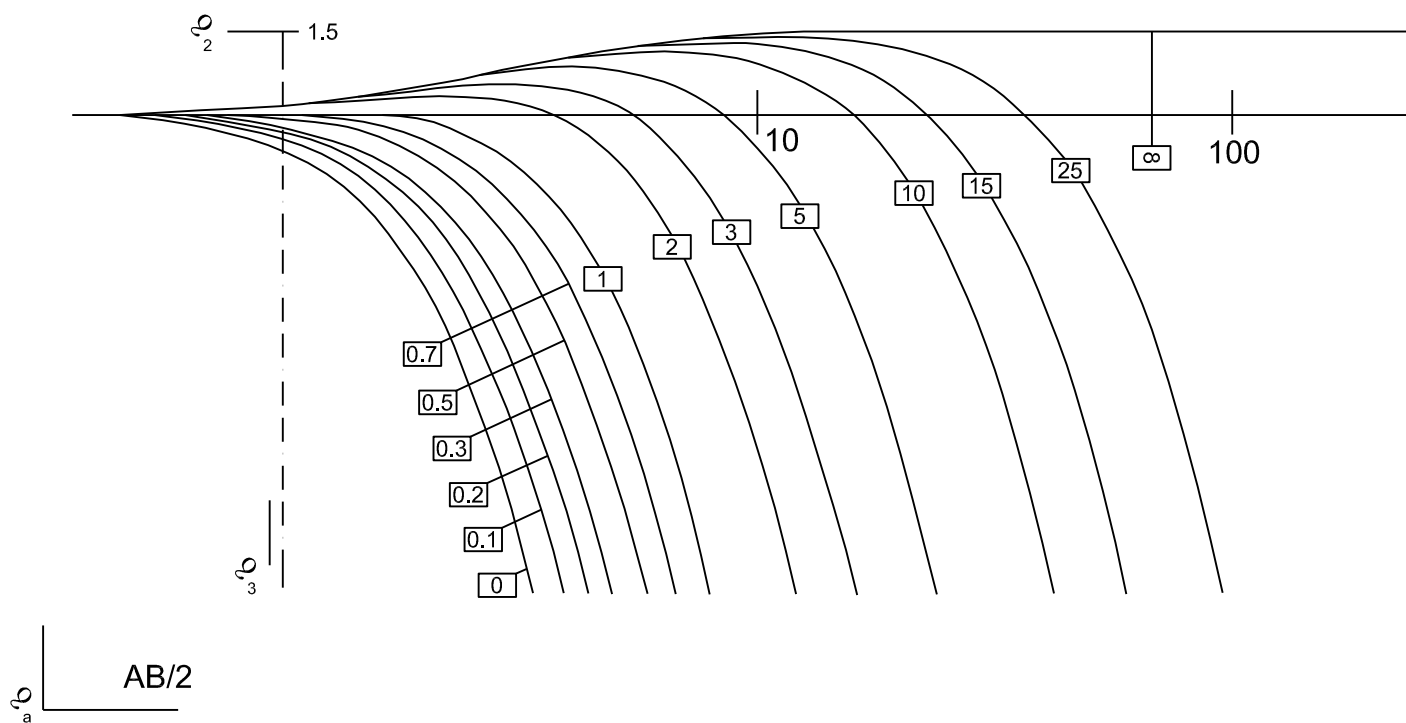
1-0.025- $\infty$



$$E_1 = 1; \rho_1 = 1; E_2 = \square$$

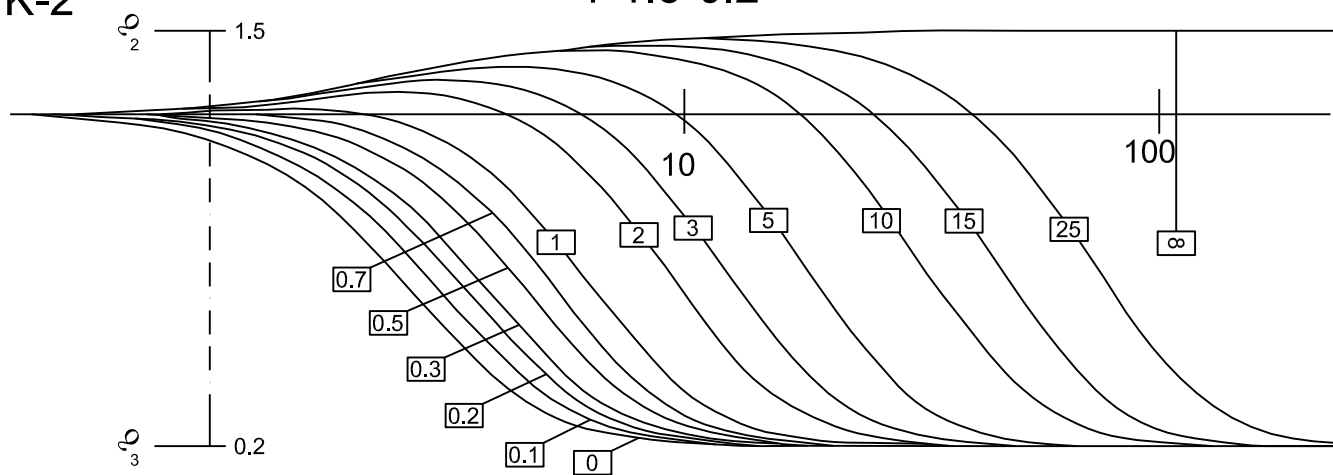
K-1

1-1.5-0



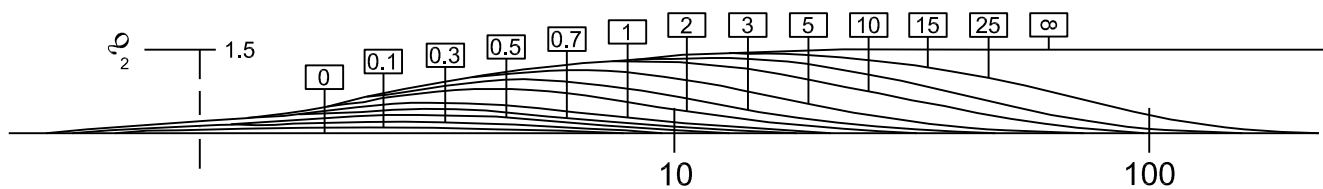
K-2

1-1.5-0.2



K-3

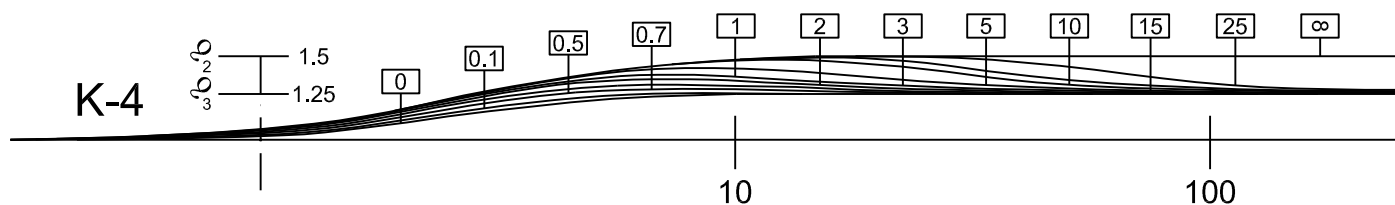
1-1.5-1



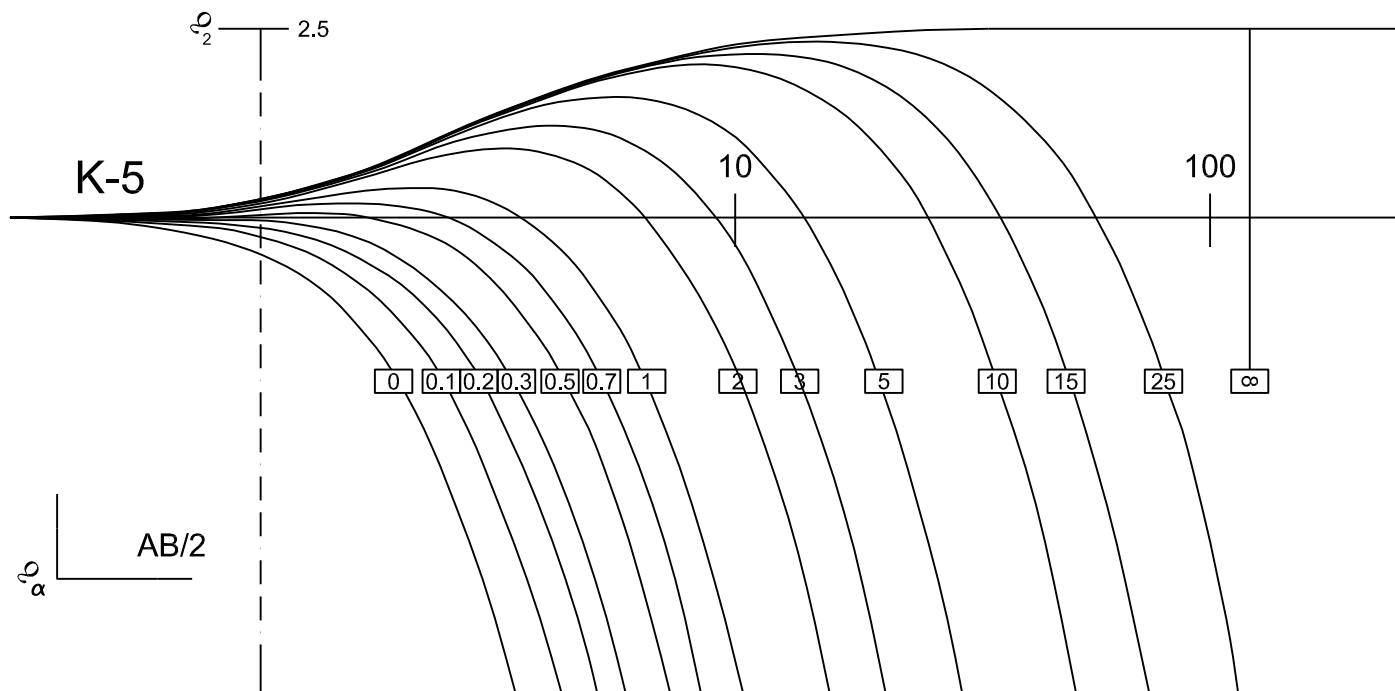
$$E_1 = 1; \varphi_1 = 1; E_2 = \square$$

1-1.5-1.25

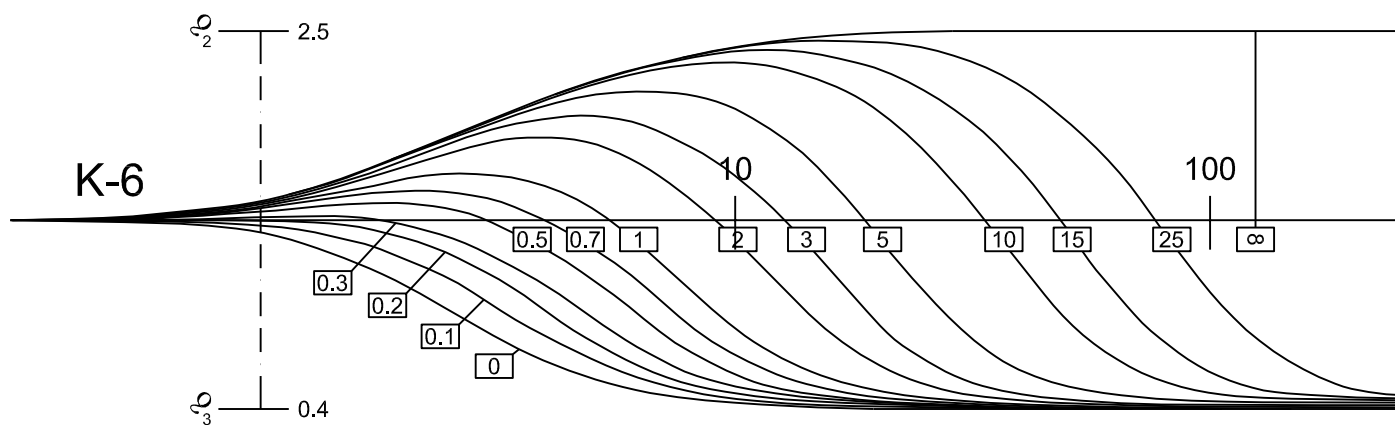
SHEET LAMINA 16



1-2.5-0



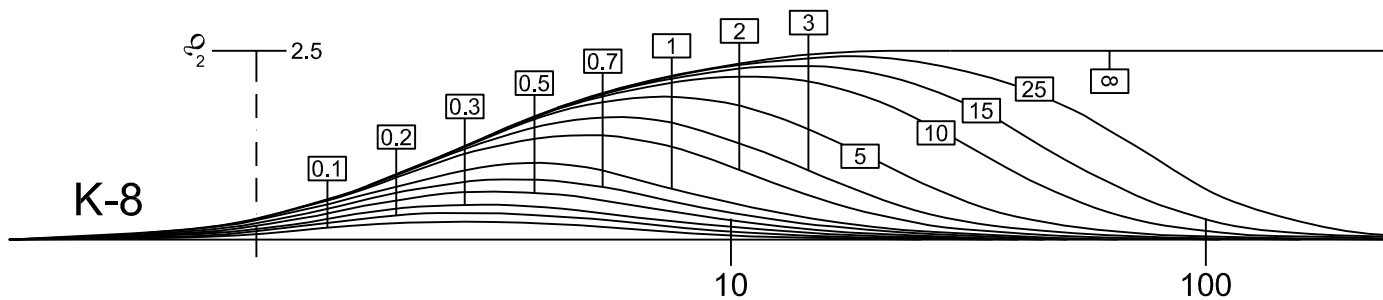
1-2.5-0.4



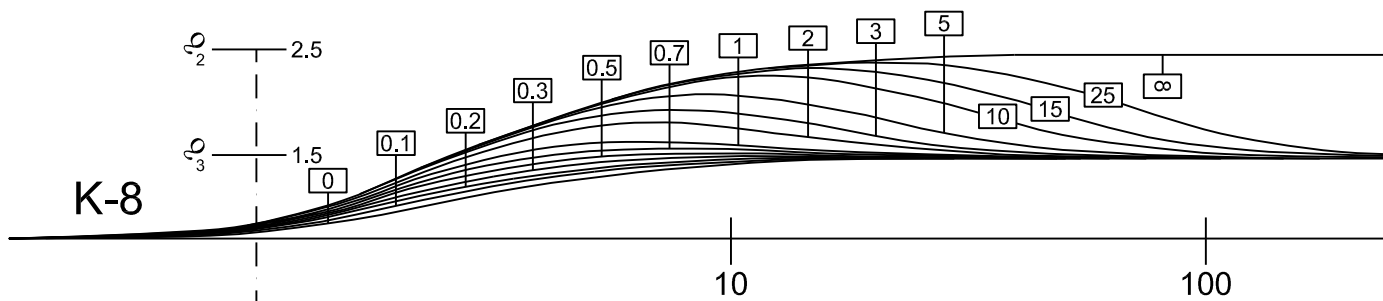
$$E_1 = 1 : \rho_1 = 1 : E_2 = \square$$



1-2.5-1

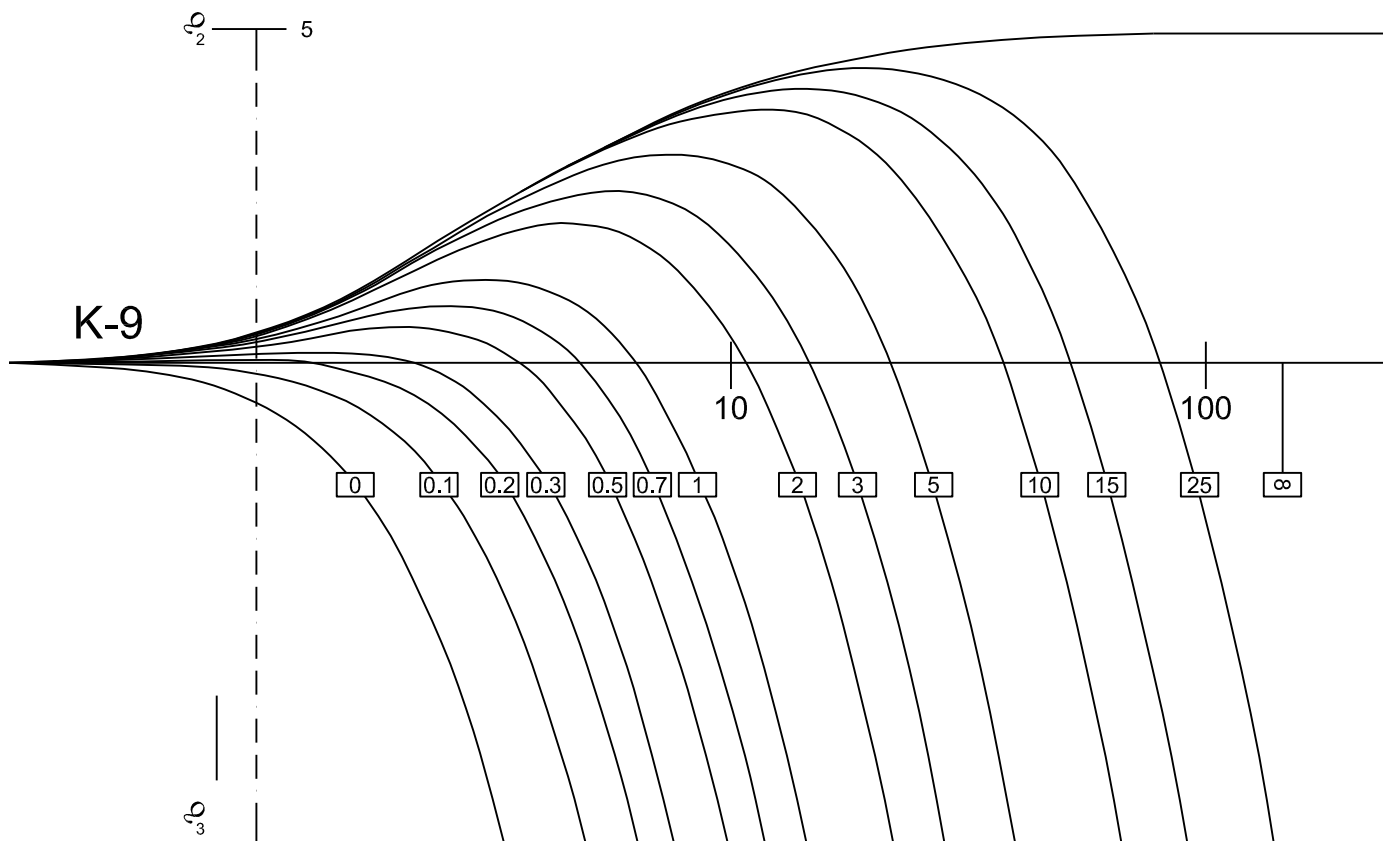


1-2.5-1.5



$\rho_\alpha$   $\frac{AB}{2}$

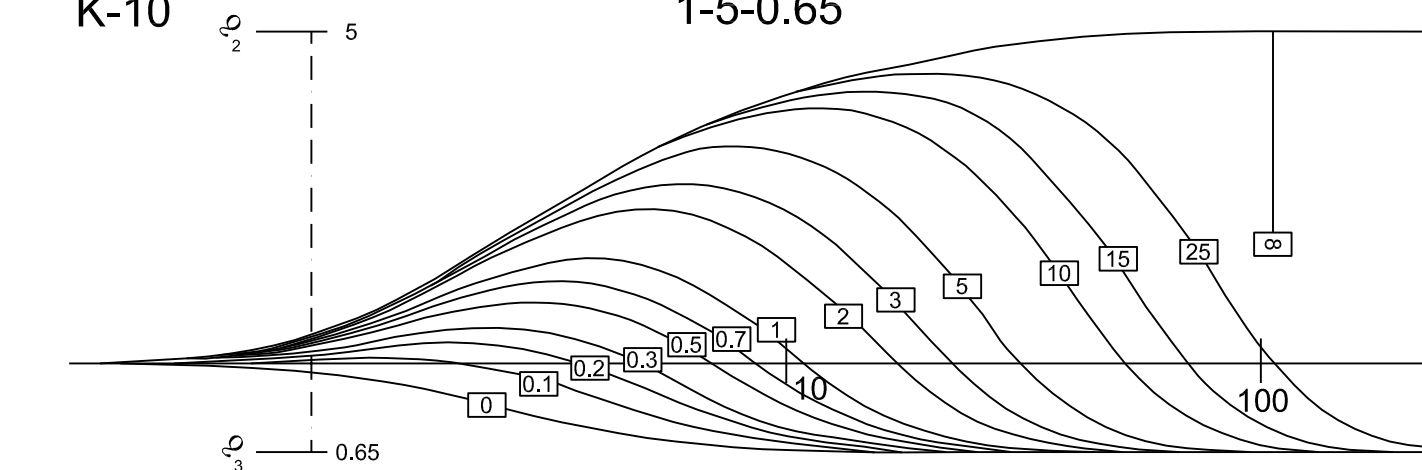
1-5-0



$$E_1 = 1: \varphi_1 = 1: E_2 = \square$$

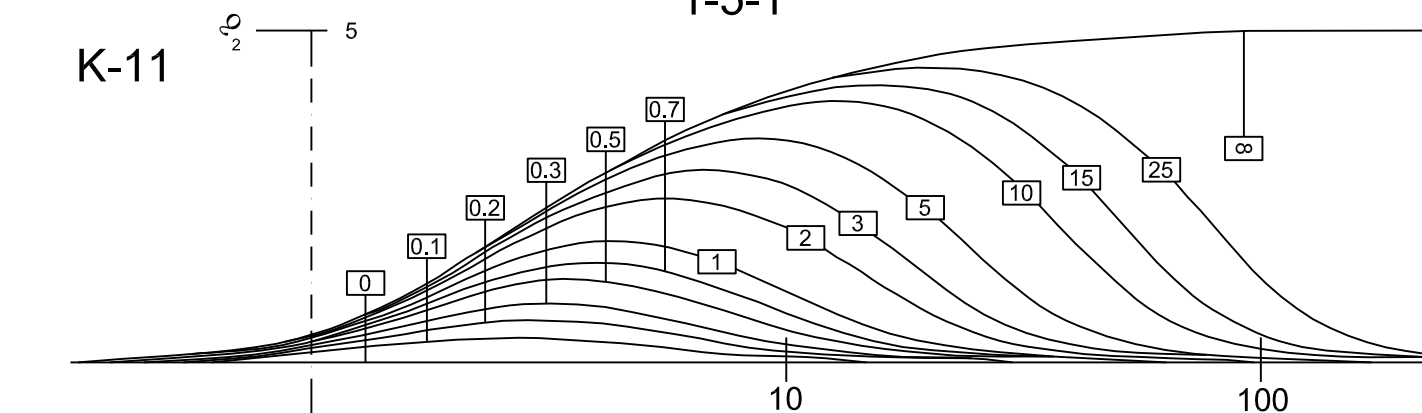
K-10

1-5-0.65



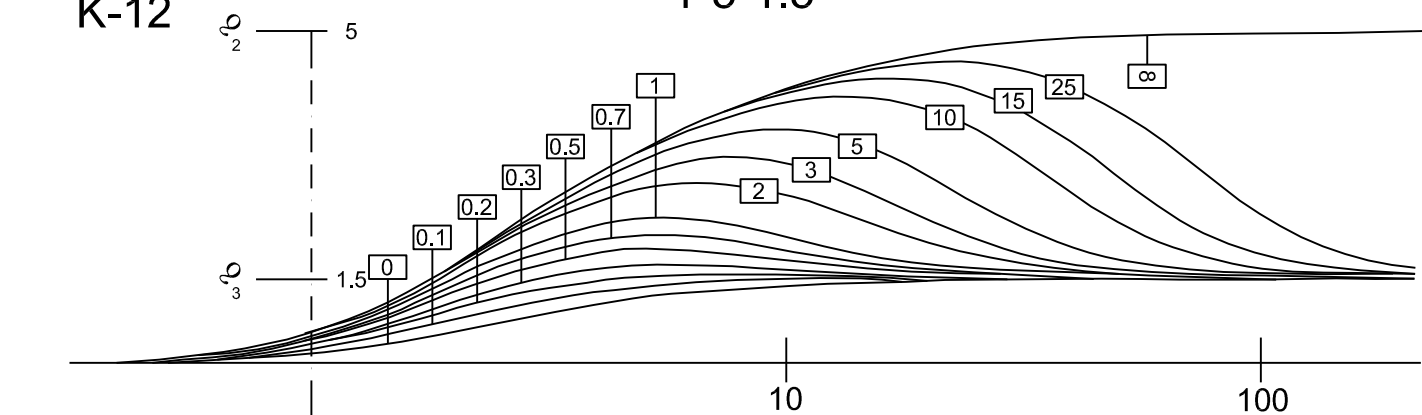
K-11

1-5-1



K-12

1-5-1.5

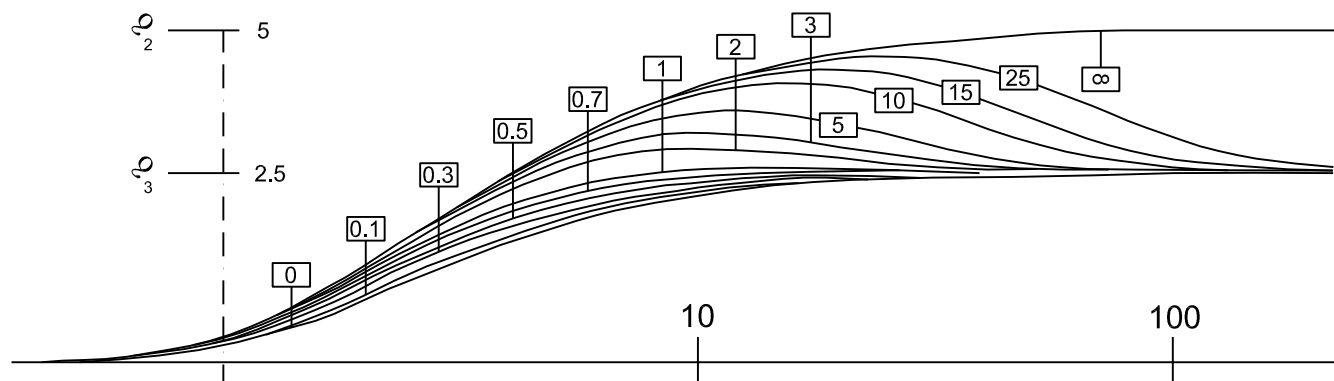


$$E_1 = 1; \epsilon_1 = 1; E_2 = \square$$

K-13

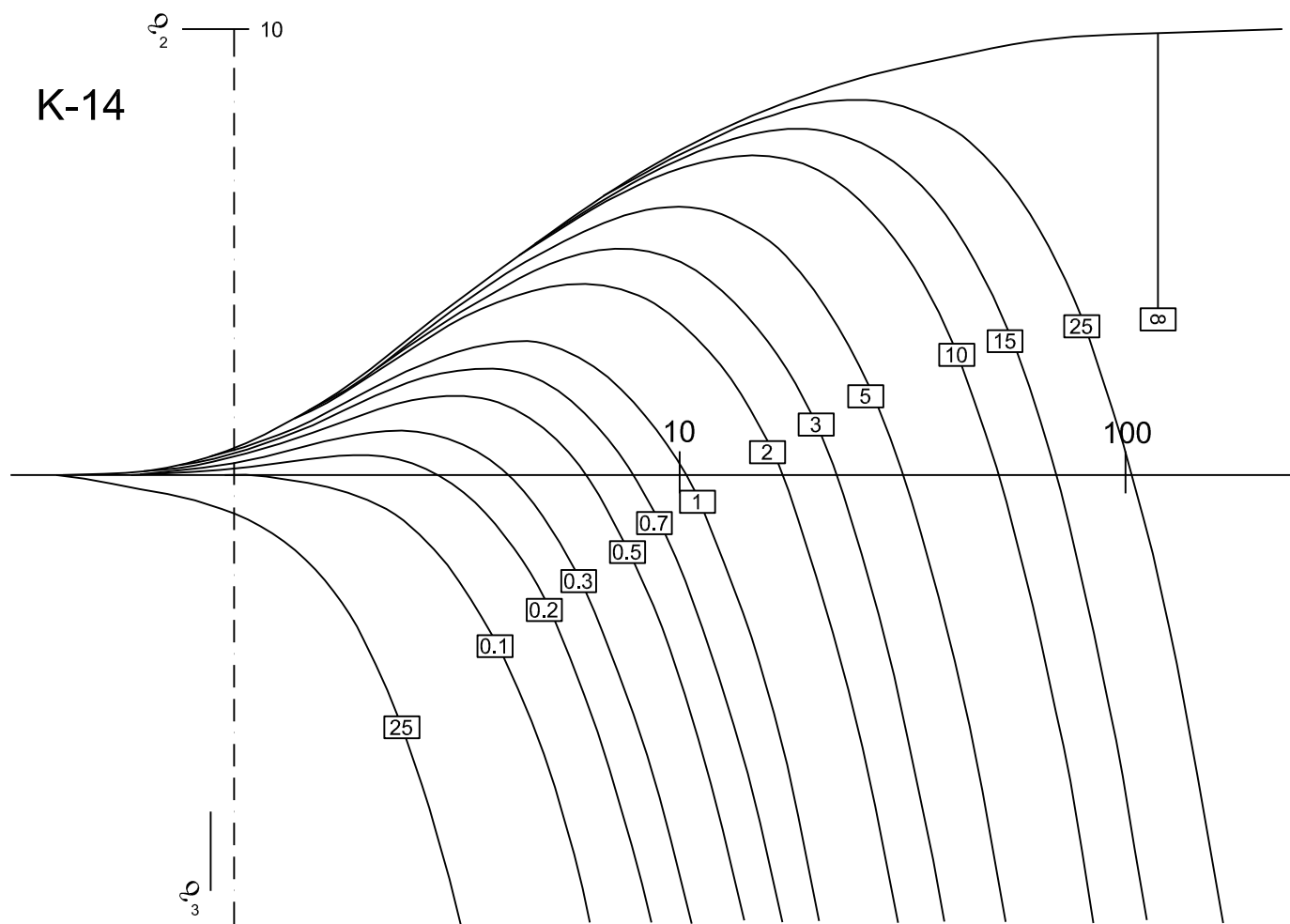
SHEET LAMINA 19

1-5-2.5



$\phi_a$  AB/2

K-14

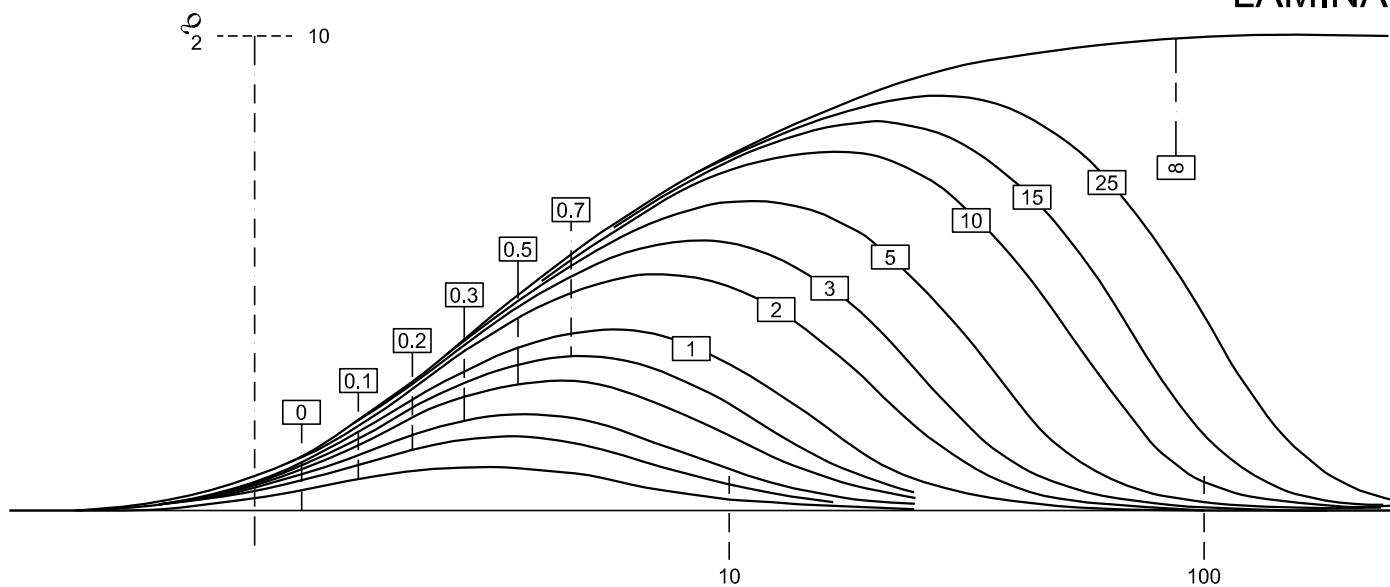


$$E_1 = 1; \phi_1 = 1; E_2 = \square$$

k-15

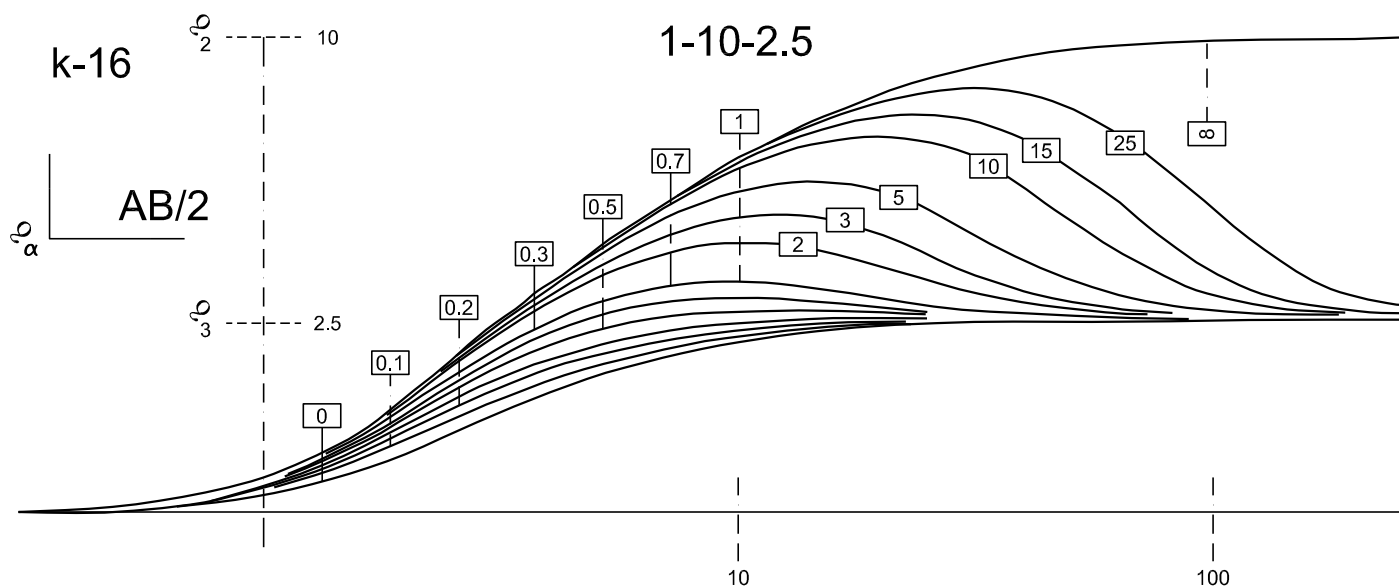
1-10-1

SHEET LAMINA 20



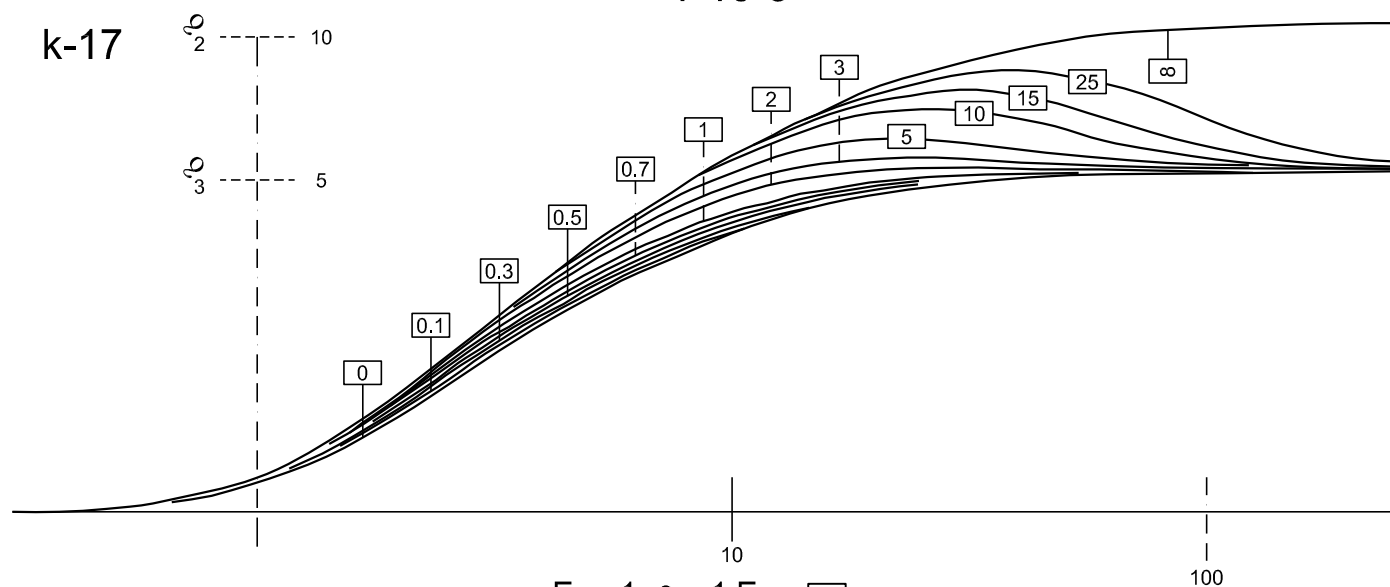
k-16

1-10-2.5



k-17

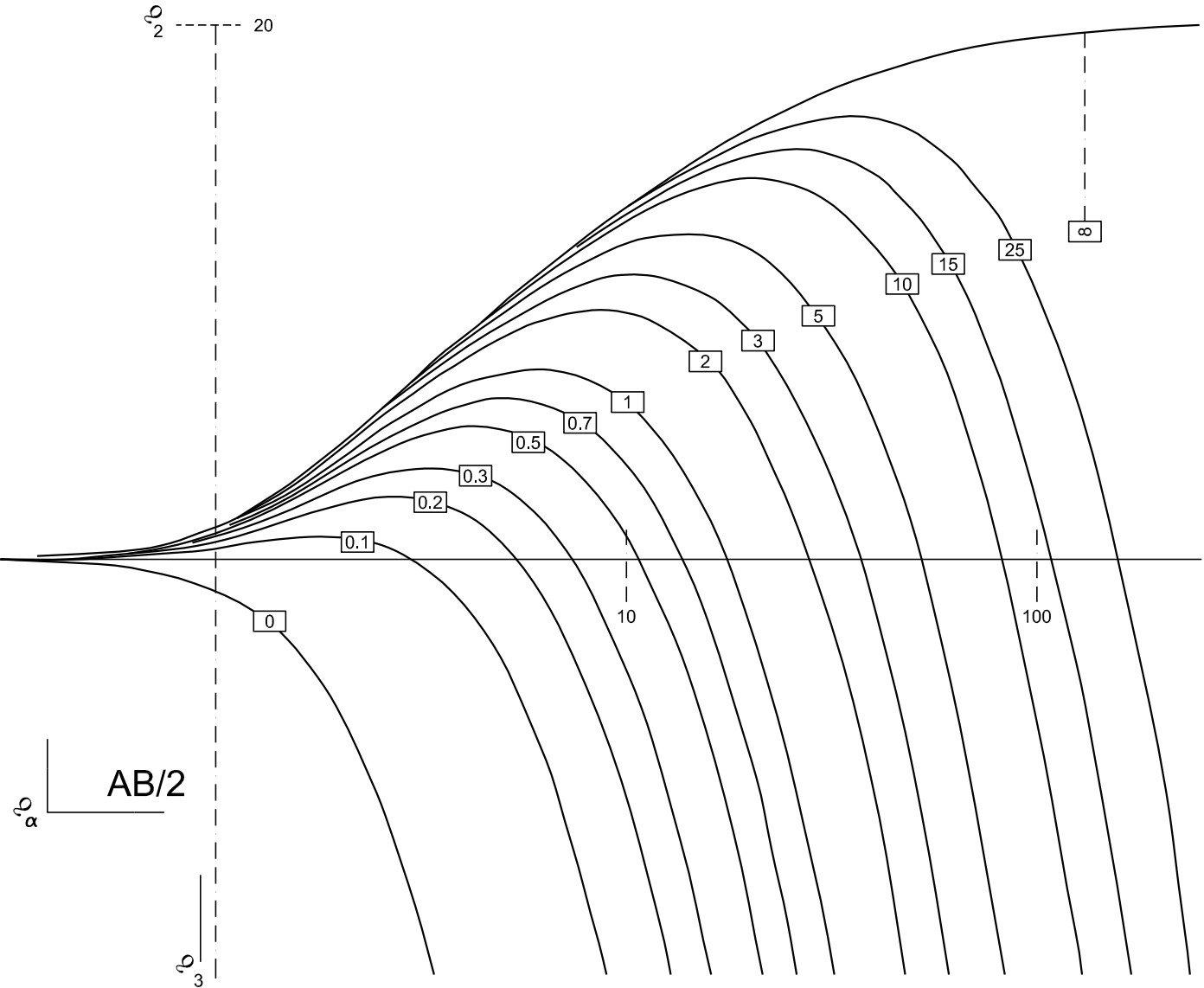
1-10-5



$E_1 = 1; \varphi_1 = 1; E_2 = \square$

k-18

1-20-0

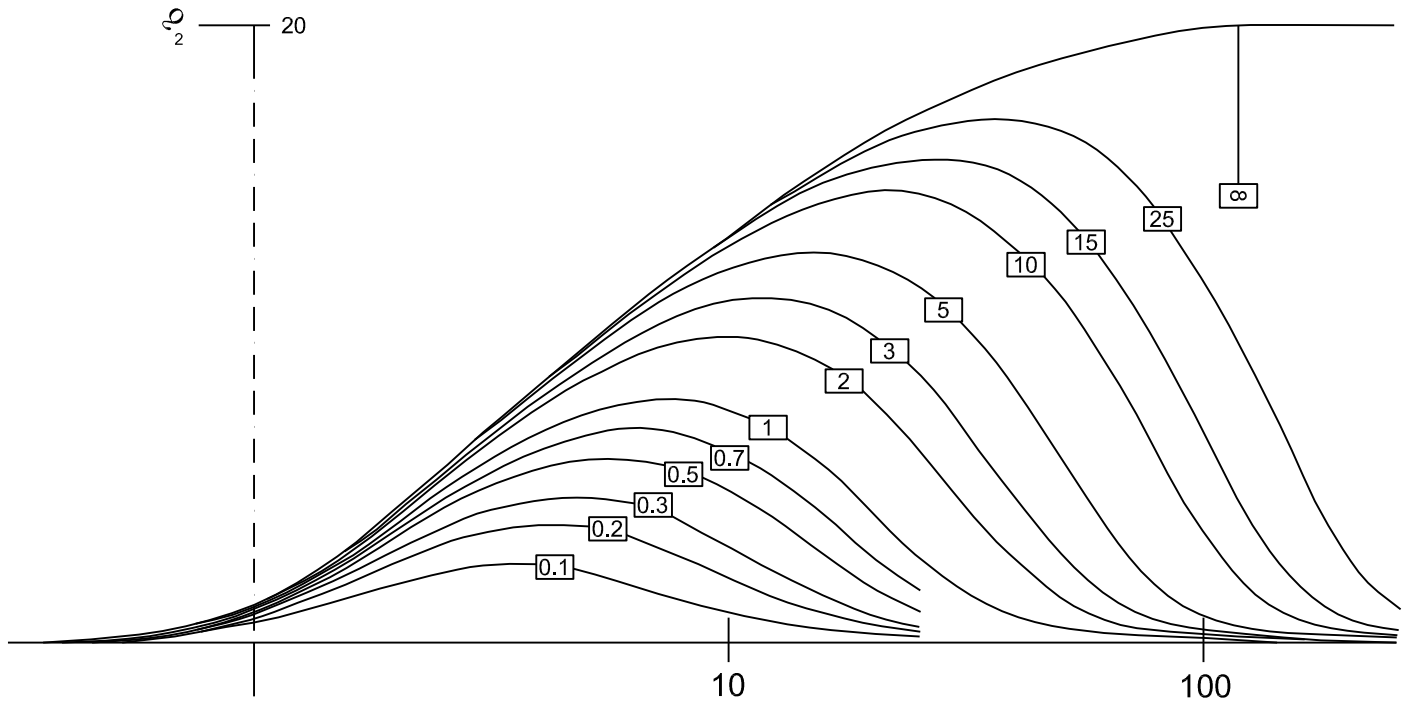


$E_1 = 1; \rho_1 = 1; E_2 = \square$

K-19

1-20-1

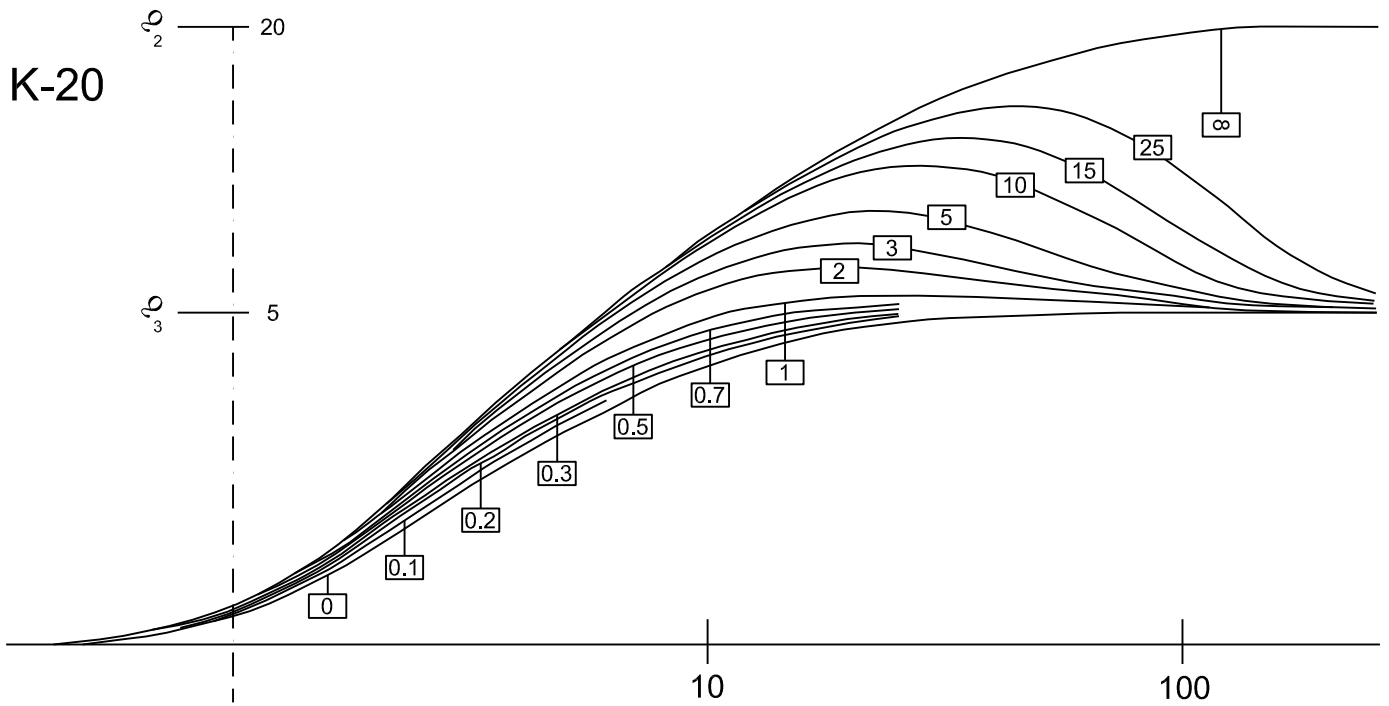
SHEET LAMINA 22



$\sigma_a$   $AB/2$

1-20-5

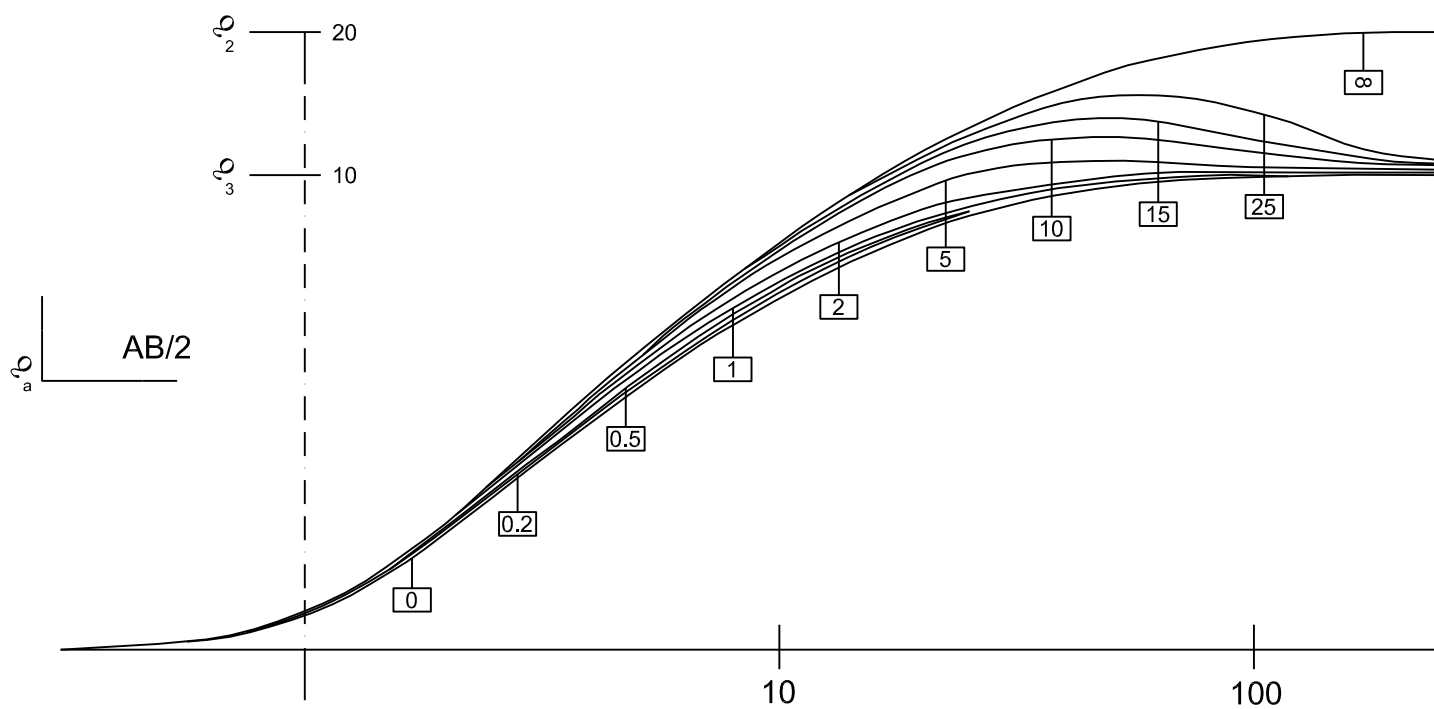
K-20



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

K-21

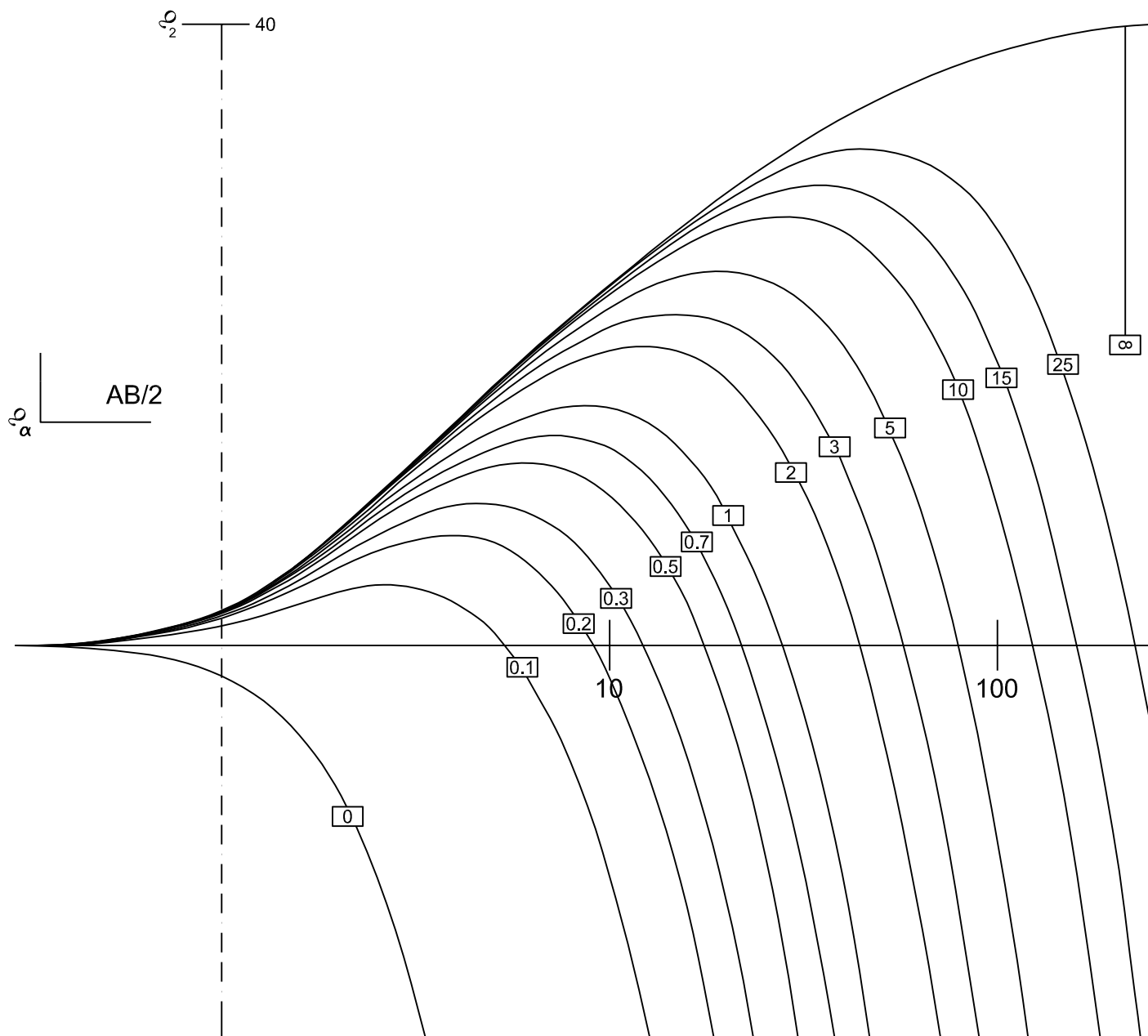
1-20-10



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

1-40-0

K-22

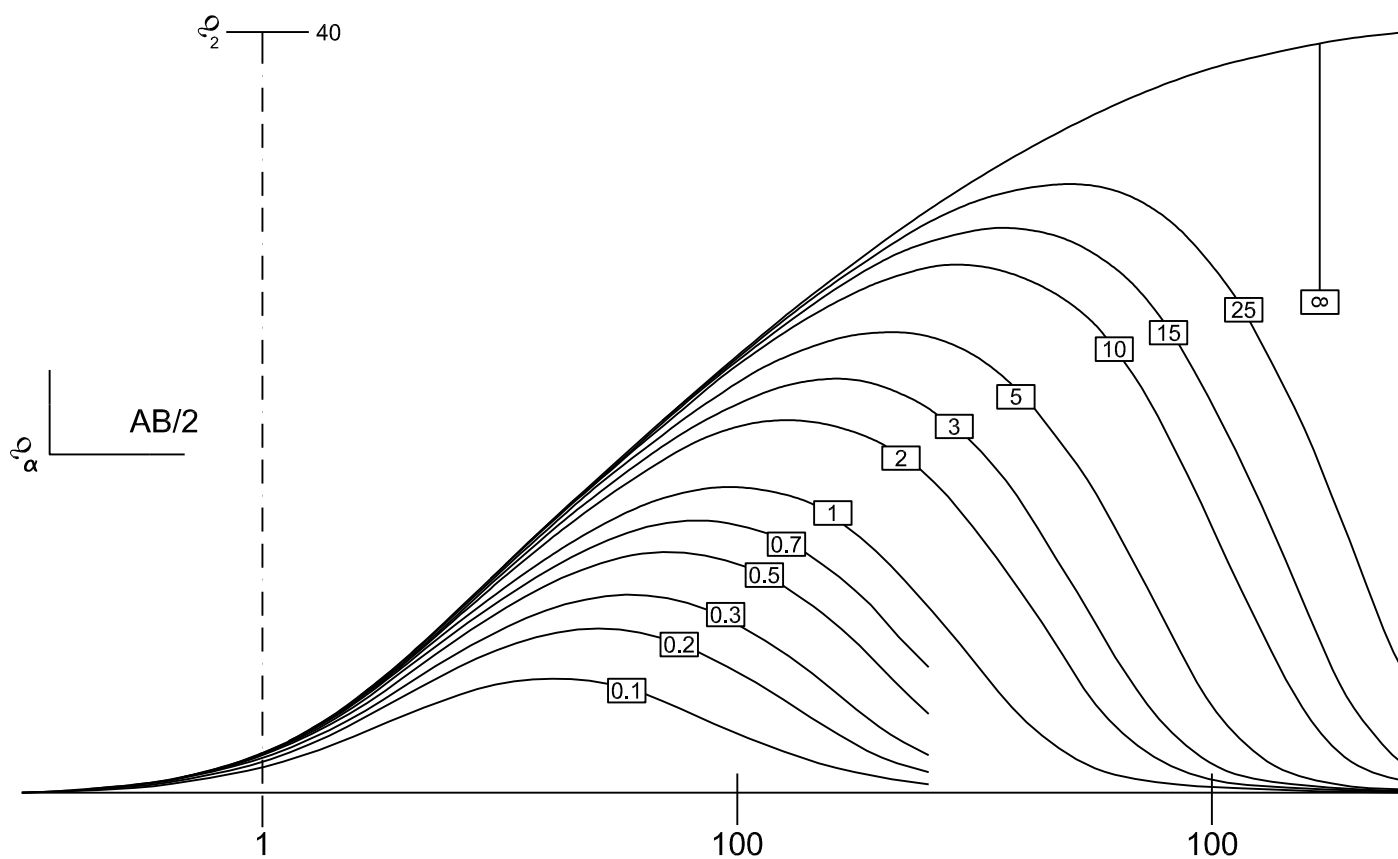


$$E_1 = 1: \rho_1 = 1: E_2 = \square$$



1-40-1

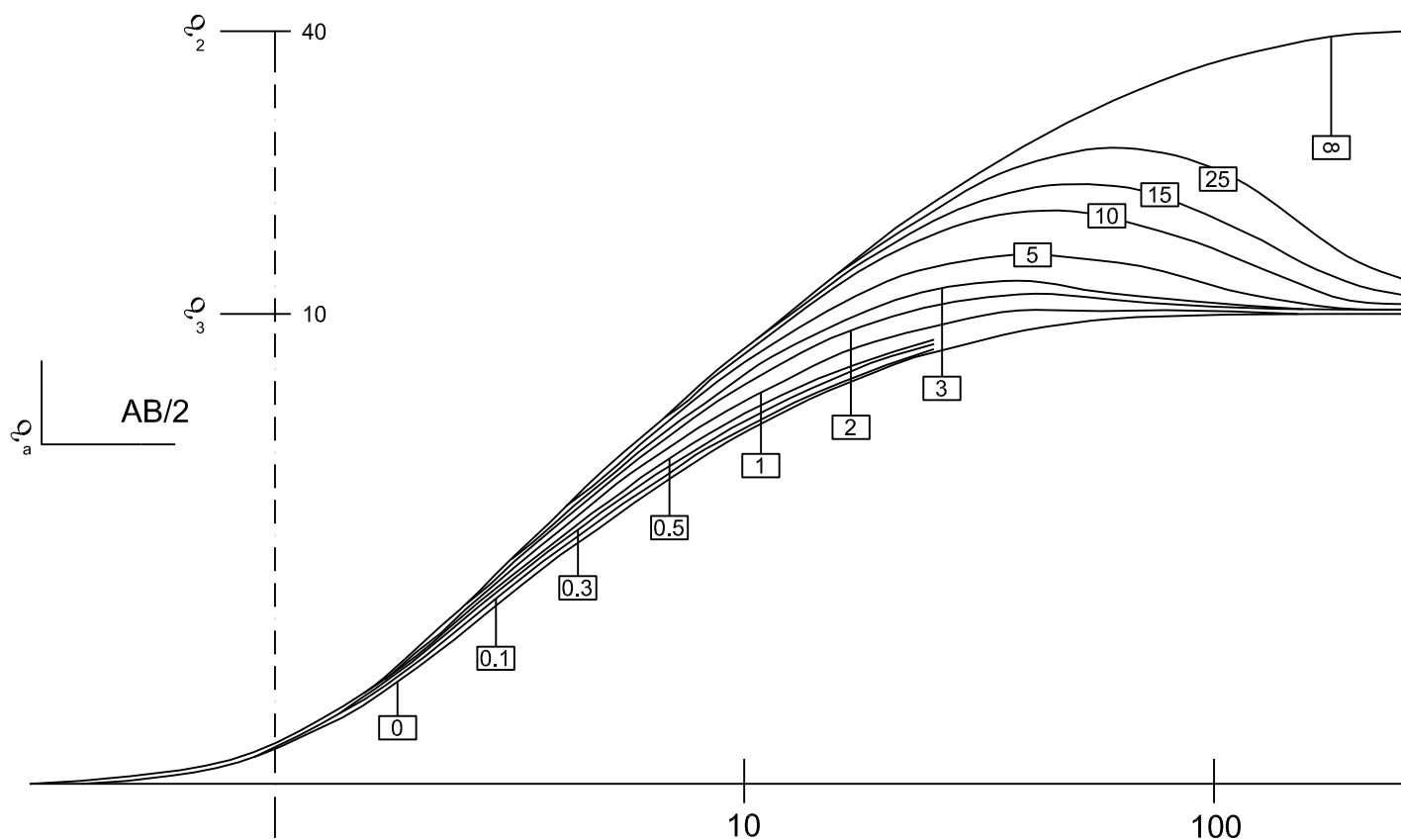
K-23



$$E_1 = 1 : \varphi_1 = 1 : E_2 = \square$$

K-24

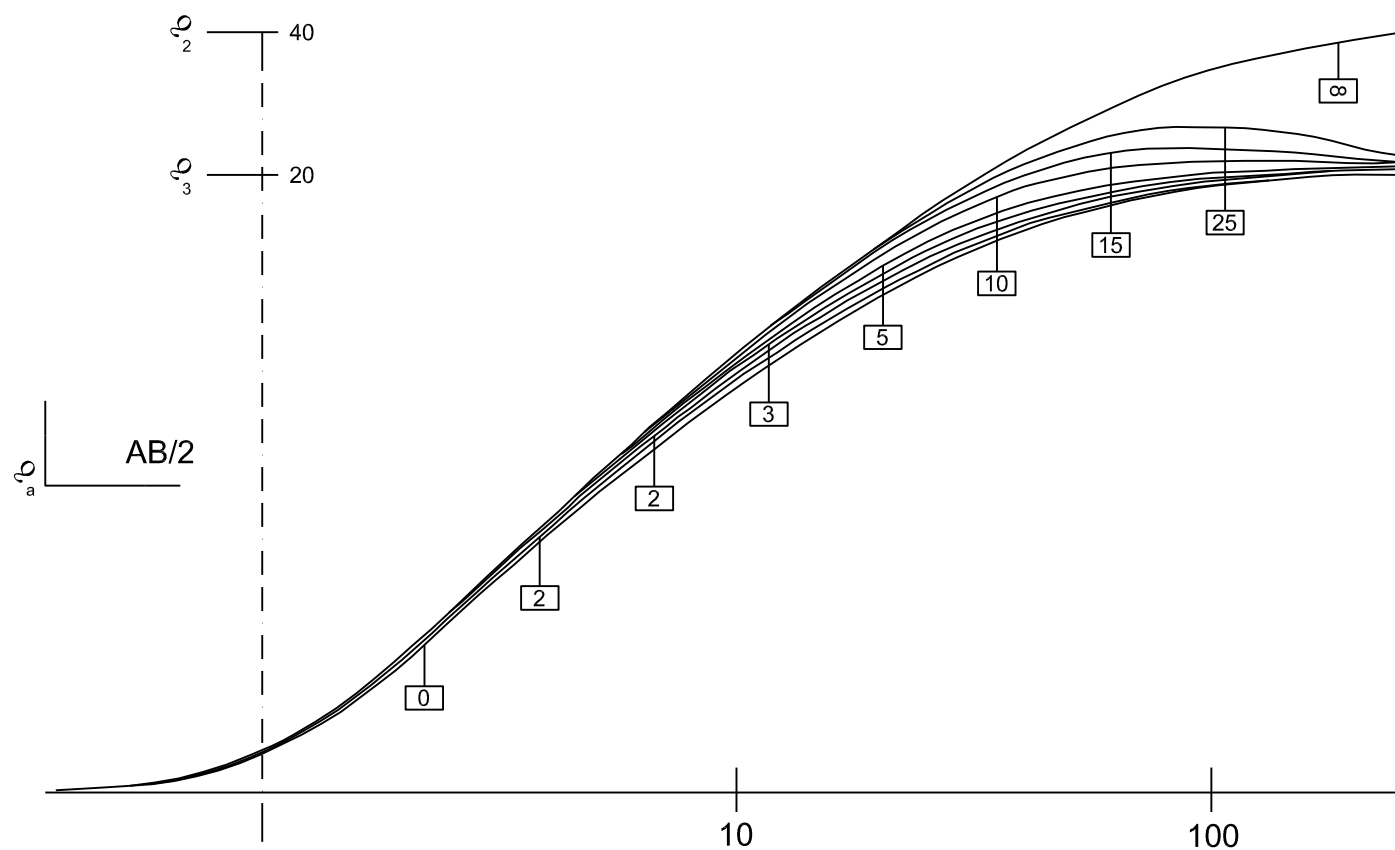
1-40-10



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

K-25

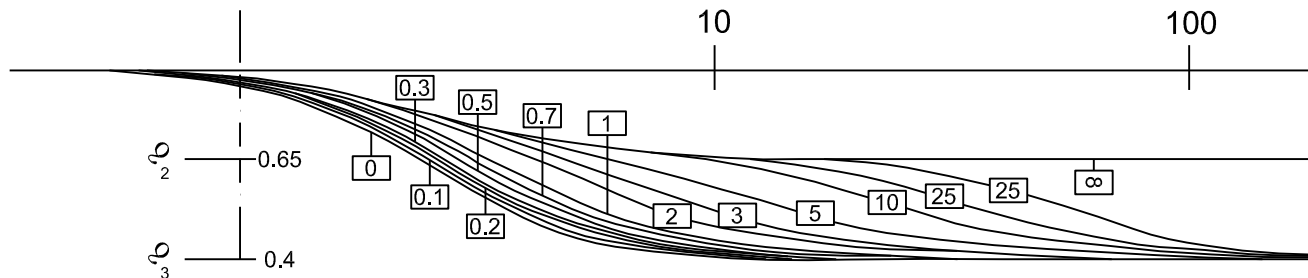
1-40-20



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

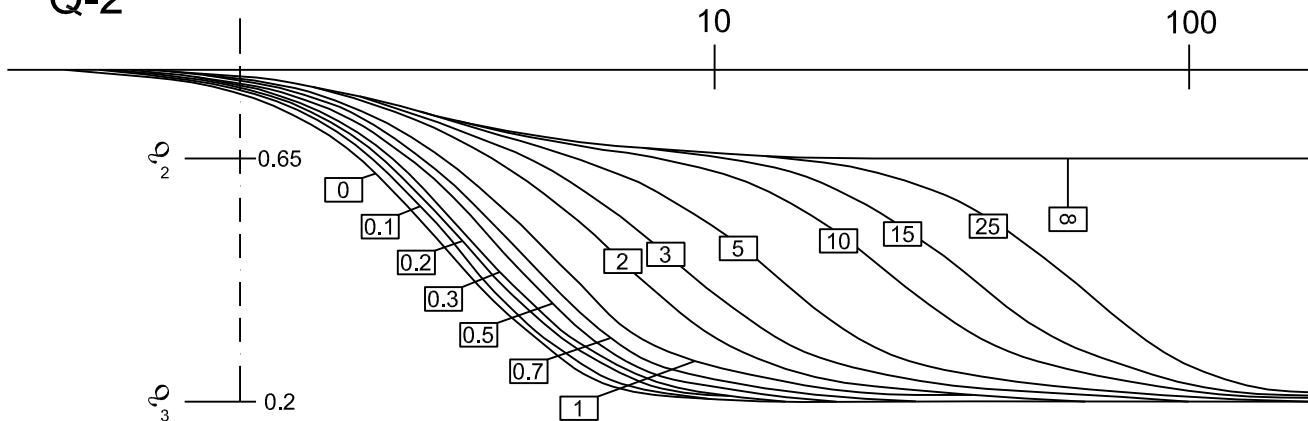
Q-3

1-0.65-0.4



Q-2

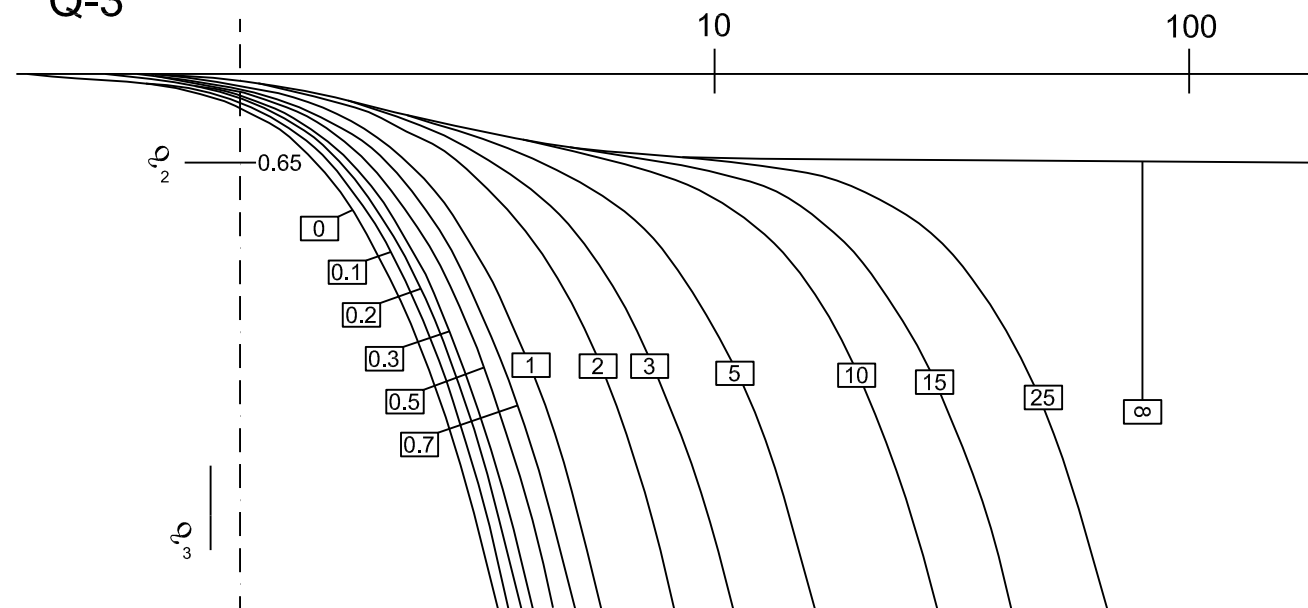
1-0.65-0.2



$\sigma_a$   $AB/2$

Q-3

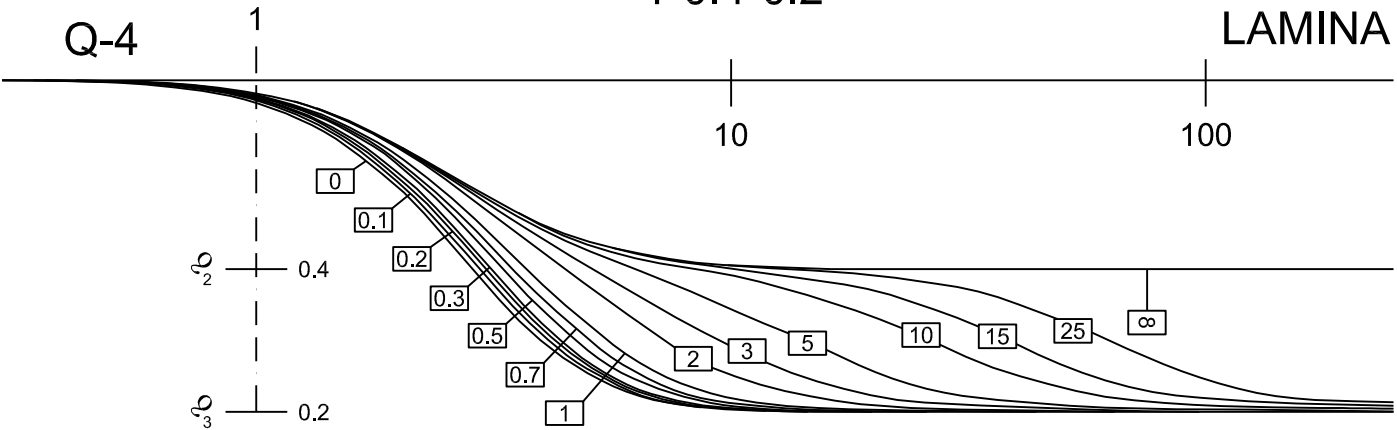
1-0.65-0



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

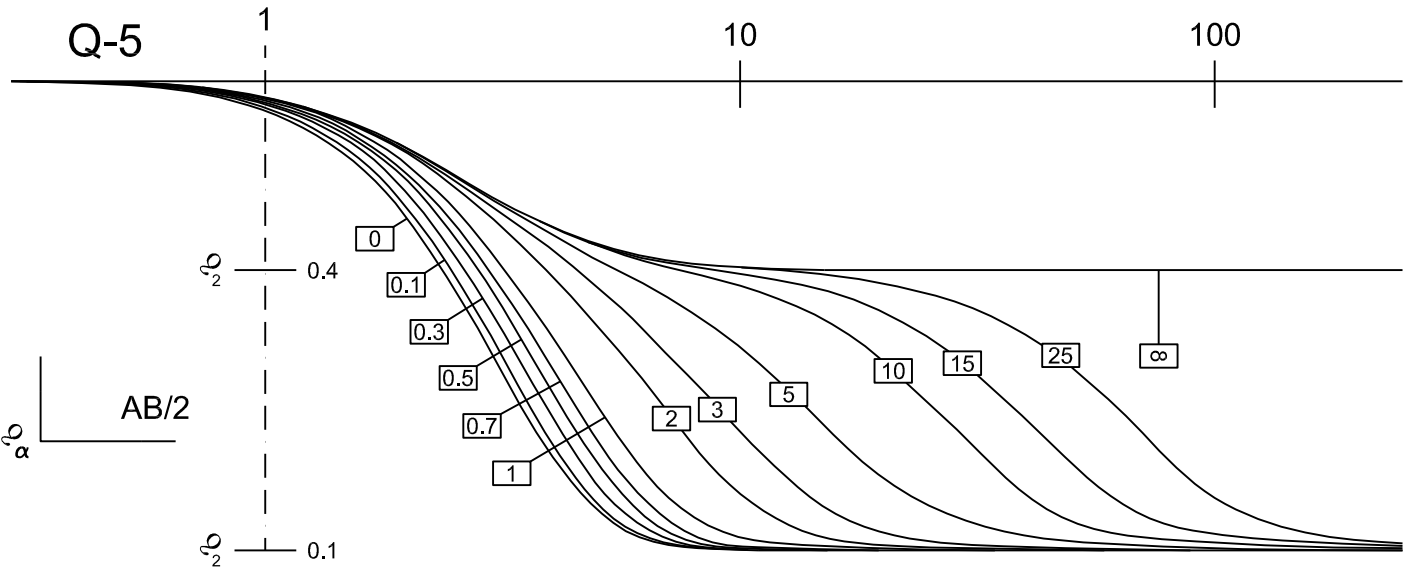
1-0.4-0.2

Q-4



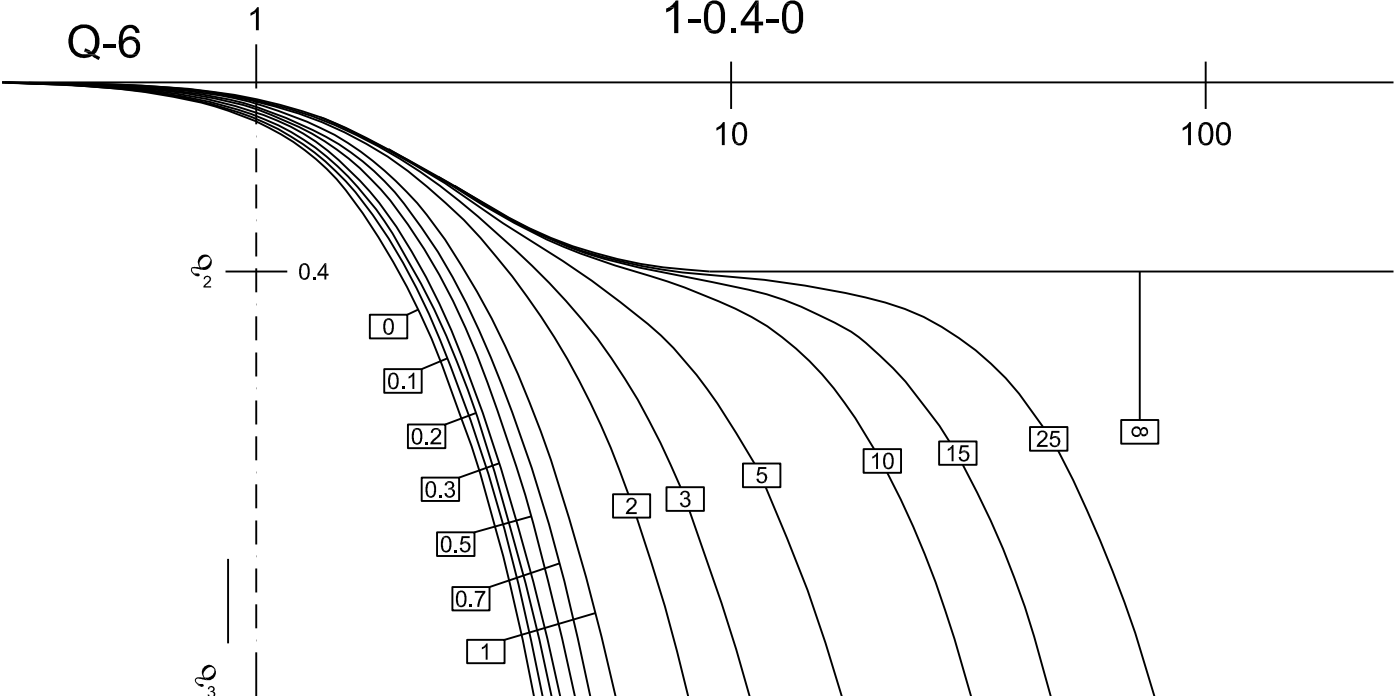
1-0.4-0.1

Q-5



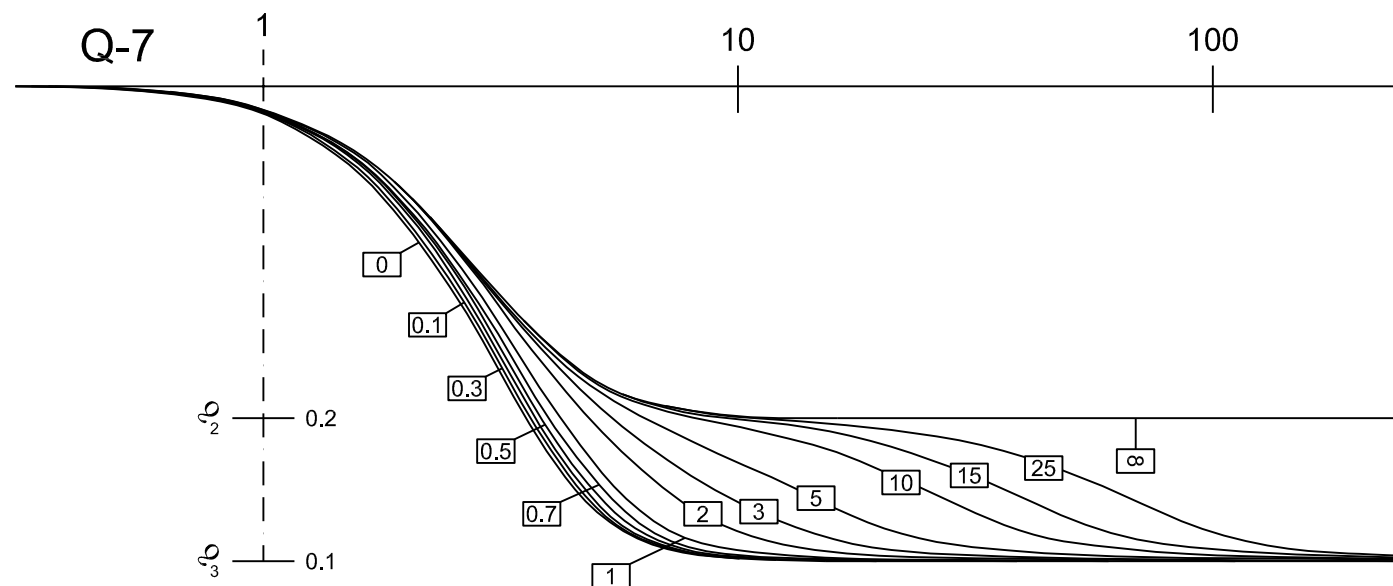
1-0.4-0

Q-6

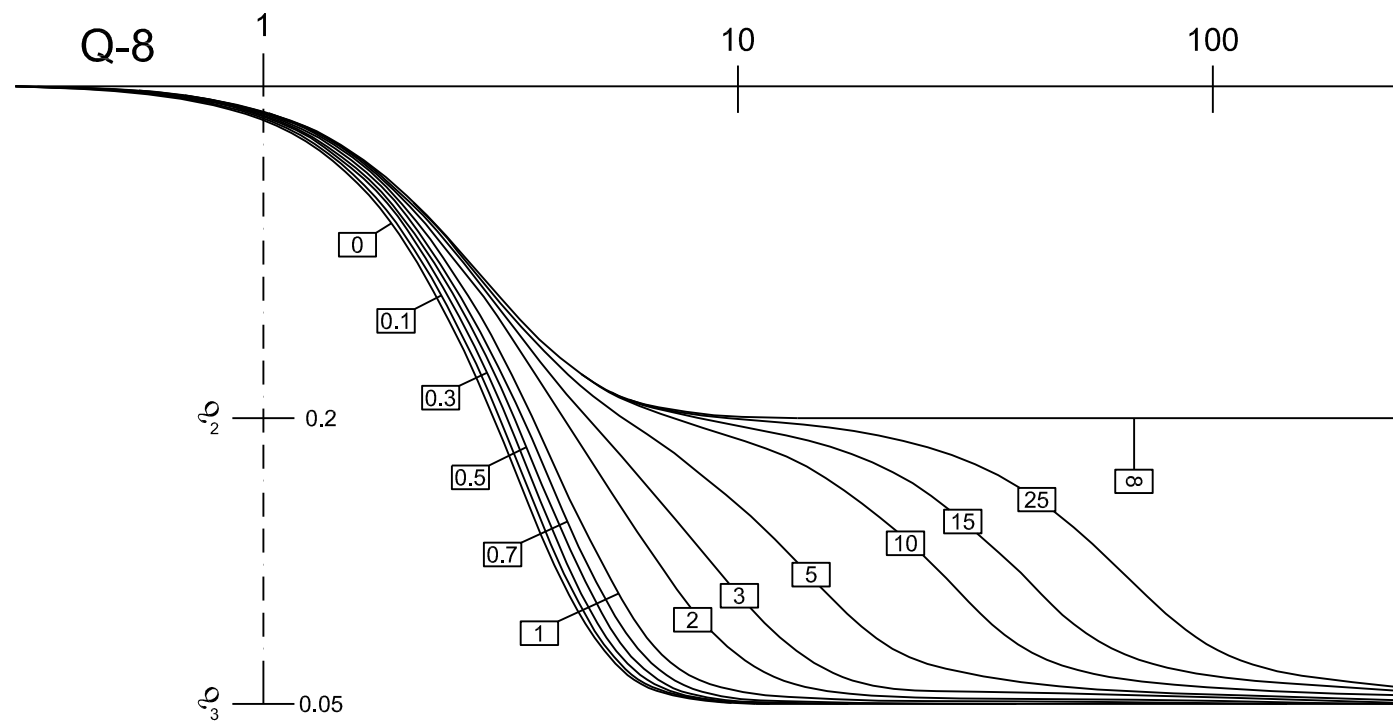


$E_1 = 1: \rho_1 = 1: E_2 = \square$

1-0.2-0.1

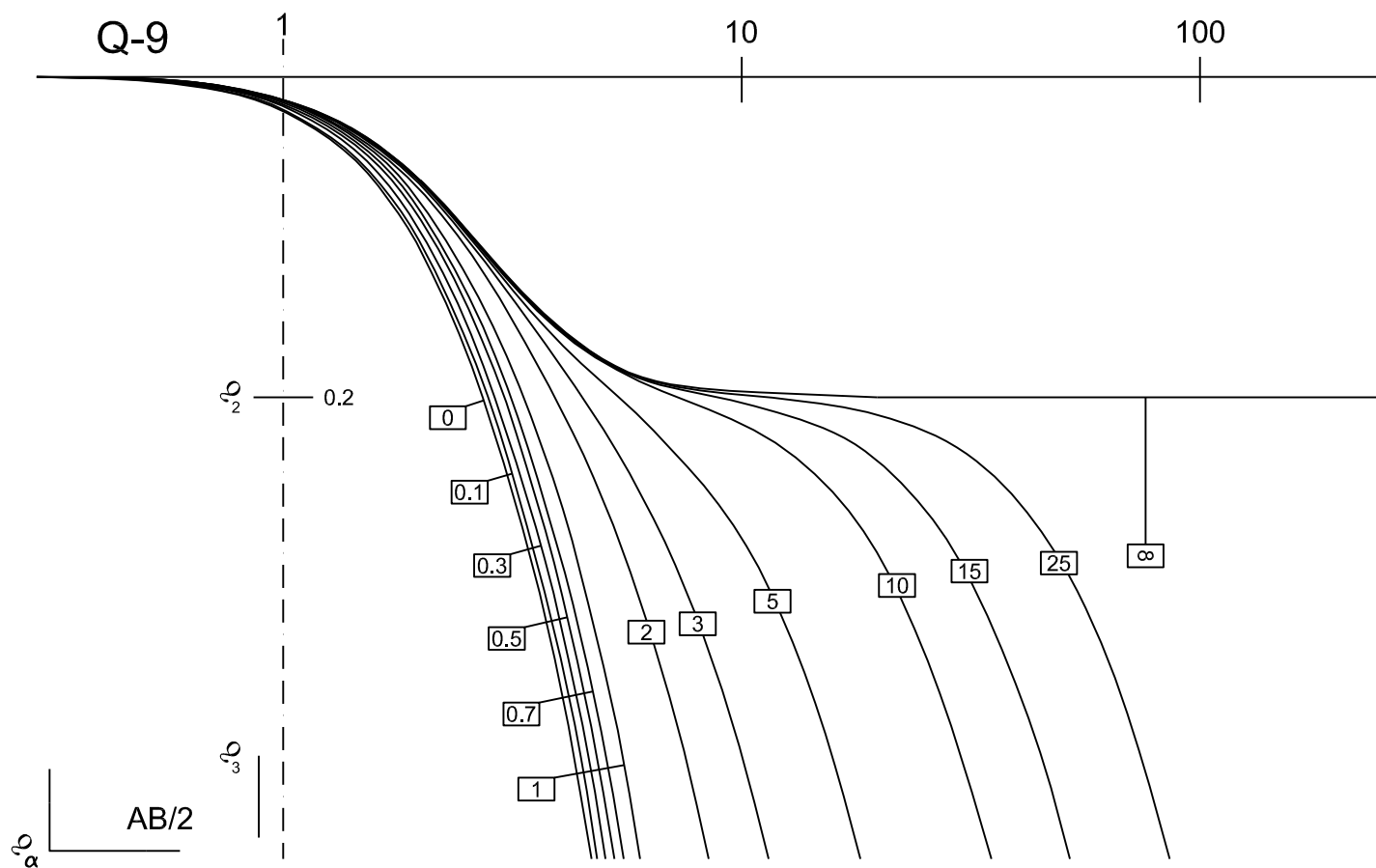


1-0.2-0.05

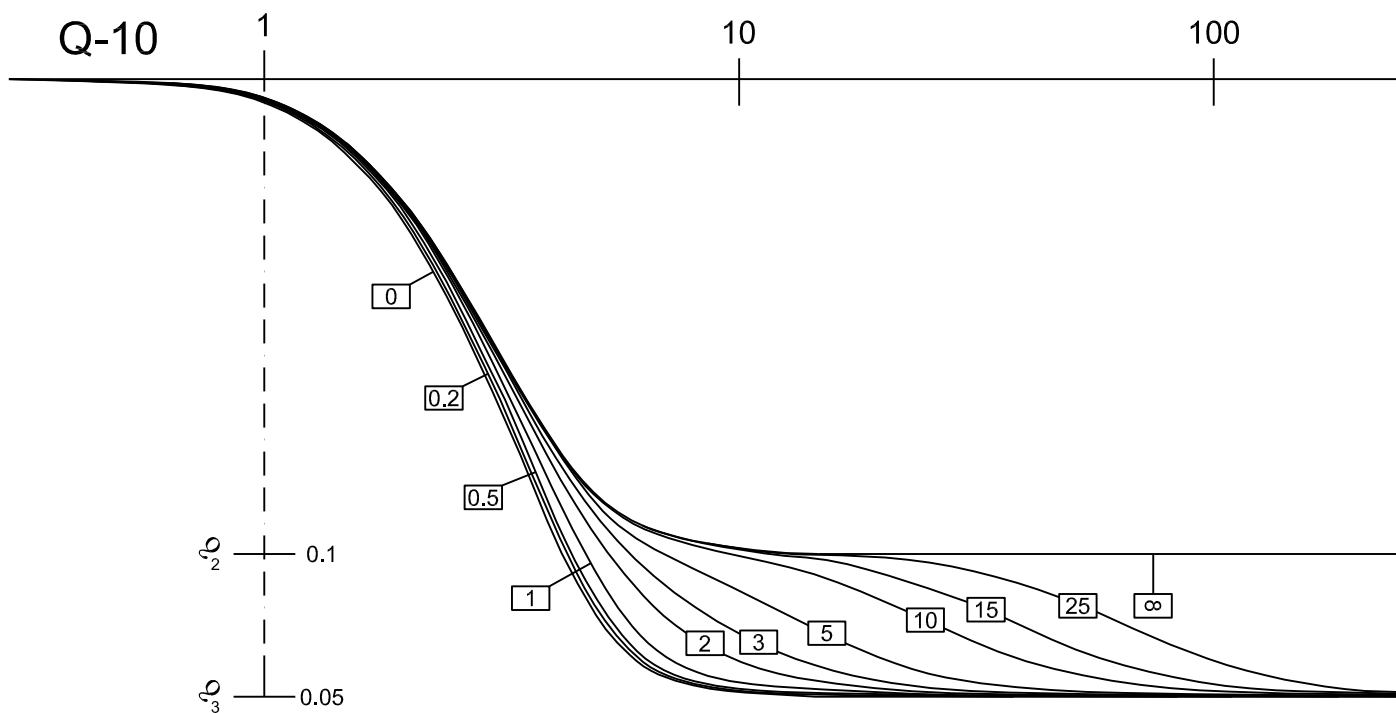


$$E_1 = 1 : \rho_1 = 1 : E_2 = \square$$

1-0.2-0



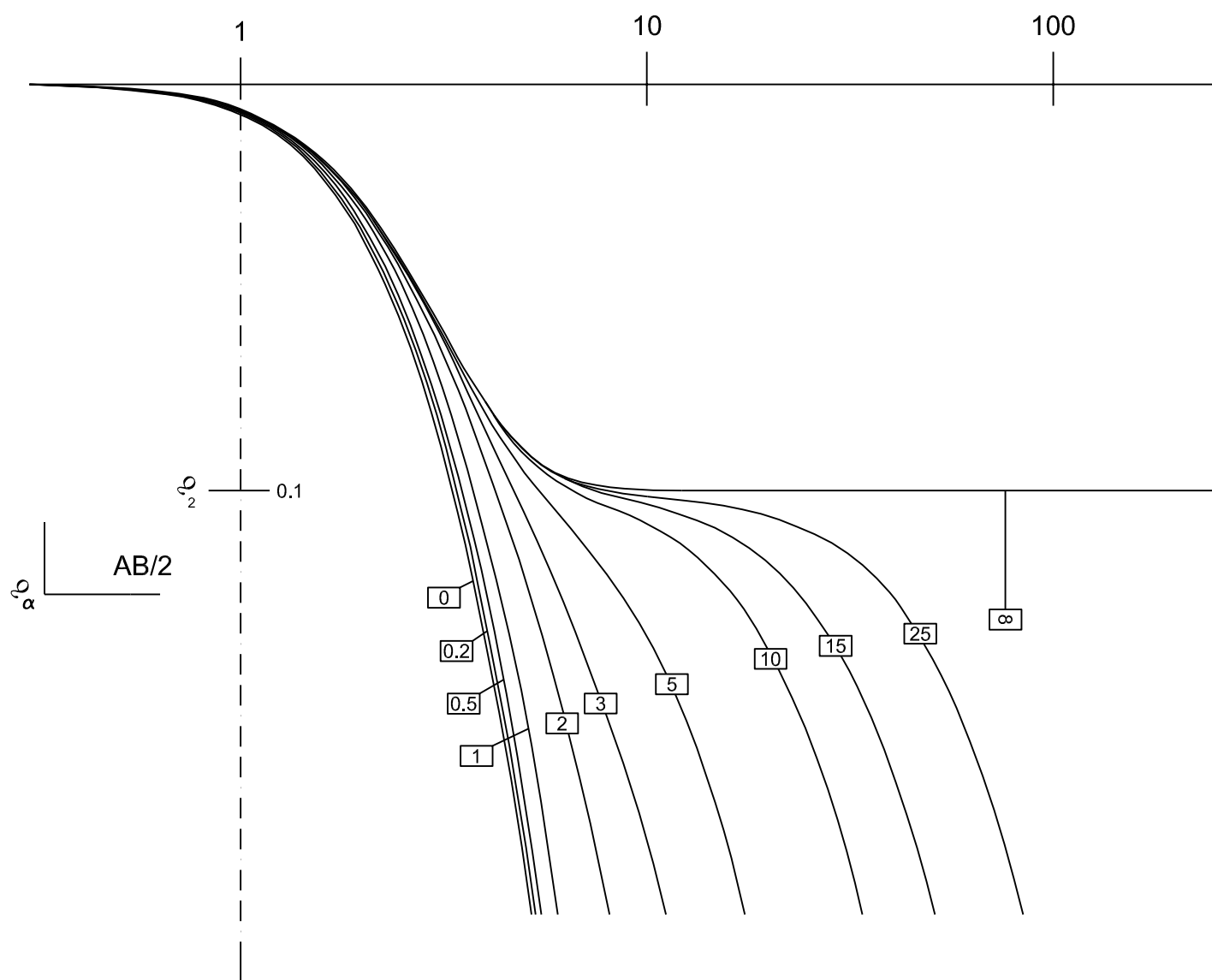
1-0.1-0.05



$$E_1 = 1 : \varphi_1 = 1 : E_2 = \square$$

Q-11

1-0.1-0

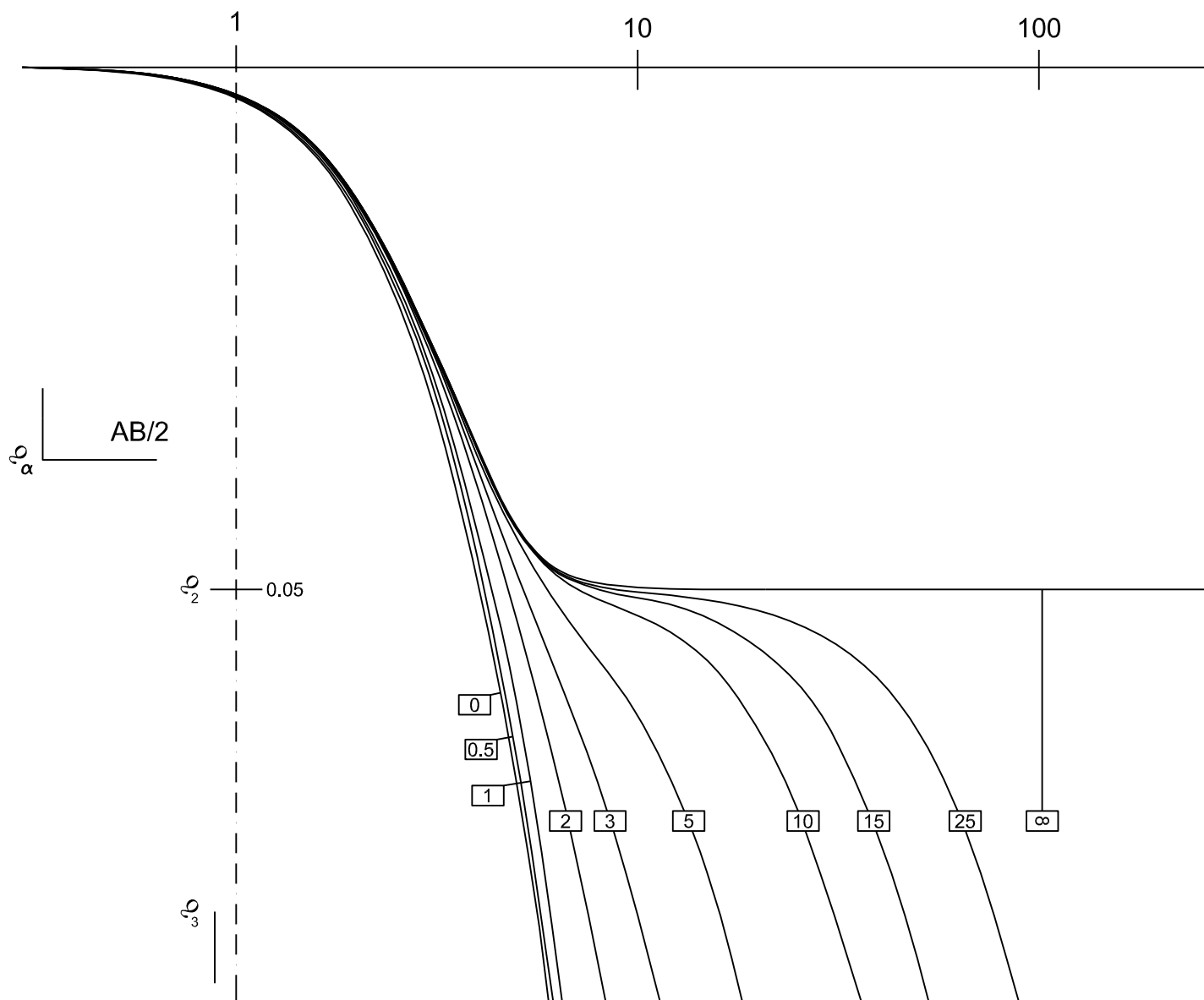


$$E_1 = 1 : \nu_1 = 1 : E_2 = \square$$



Q-12

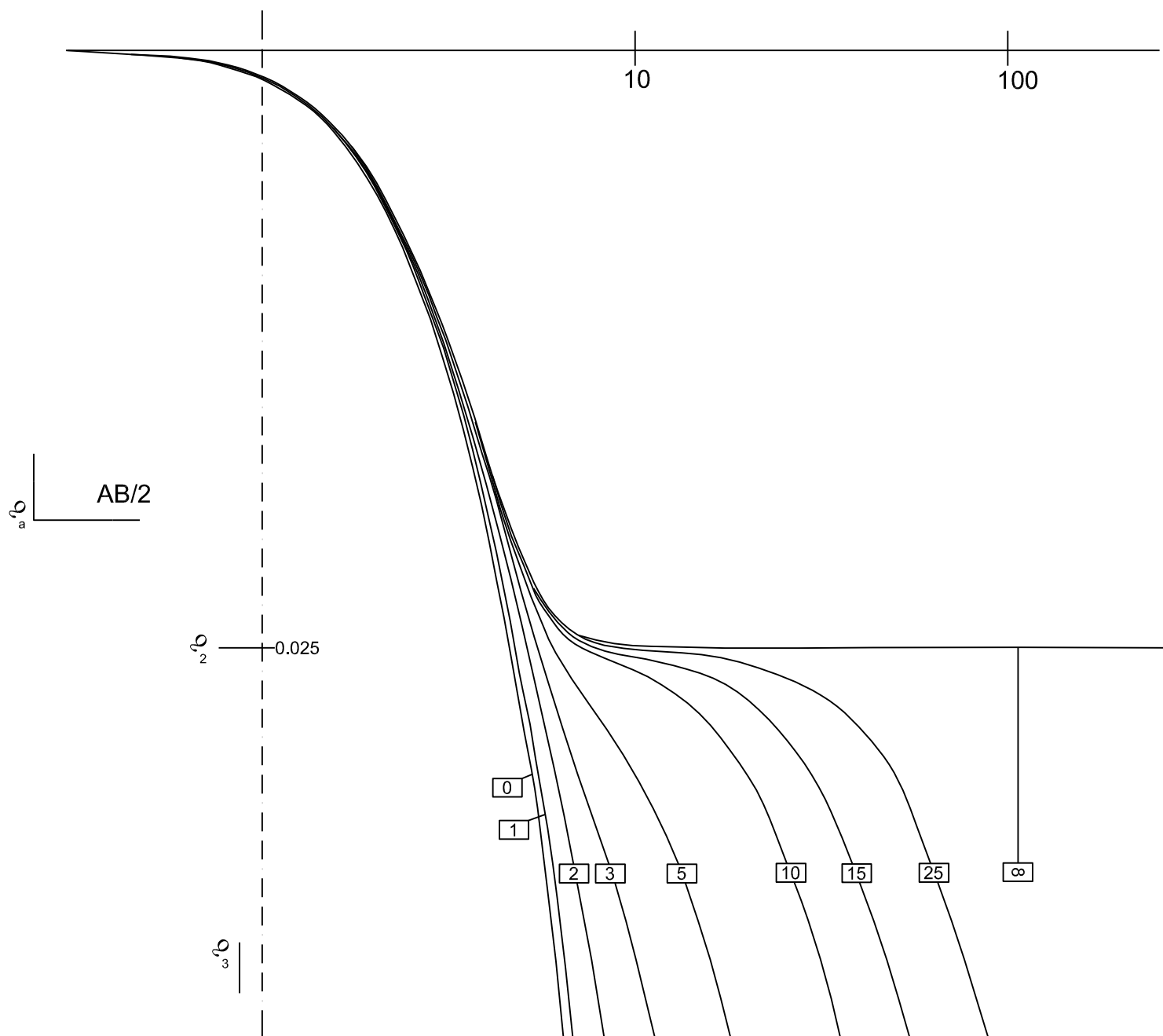
1-0.05-0



$E_1 = 1: \varphi_1 = 1: E_2 = \square$

Q-13

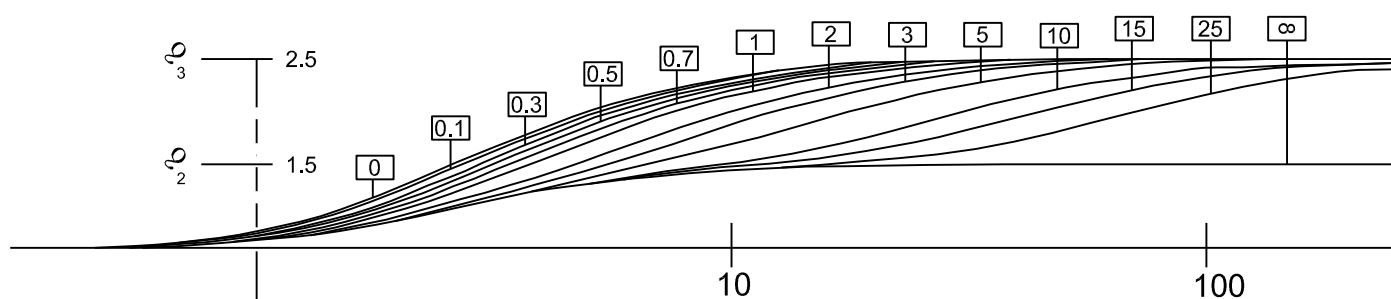
1-0.025-0



$E_1 = 1; \nu_1 = 1; E_2 = \square$

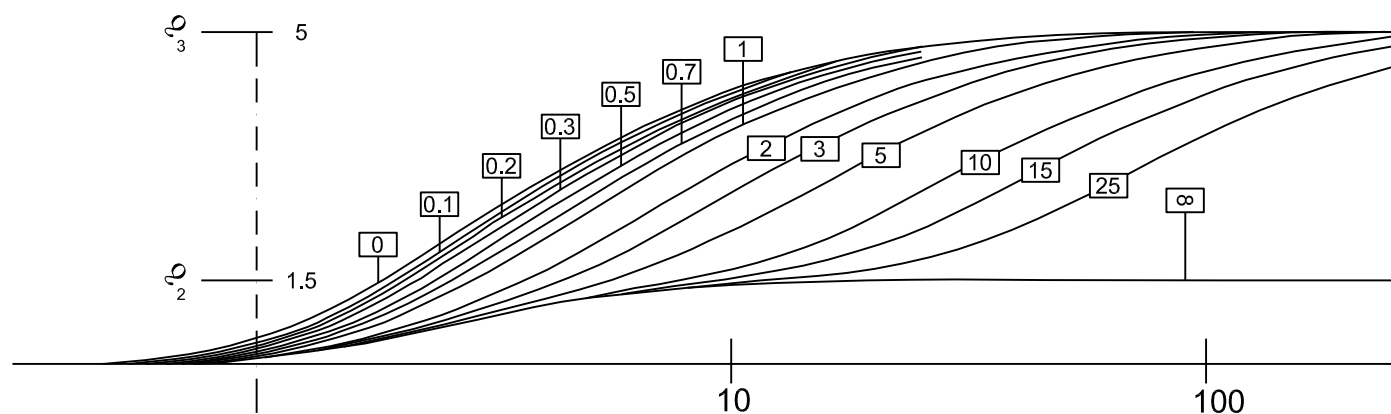
A-1

1-1.5-2.5



A-2

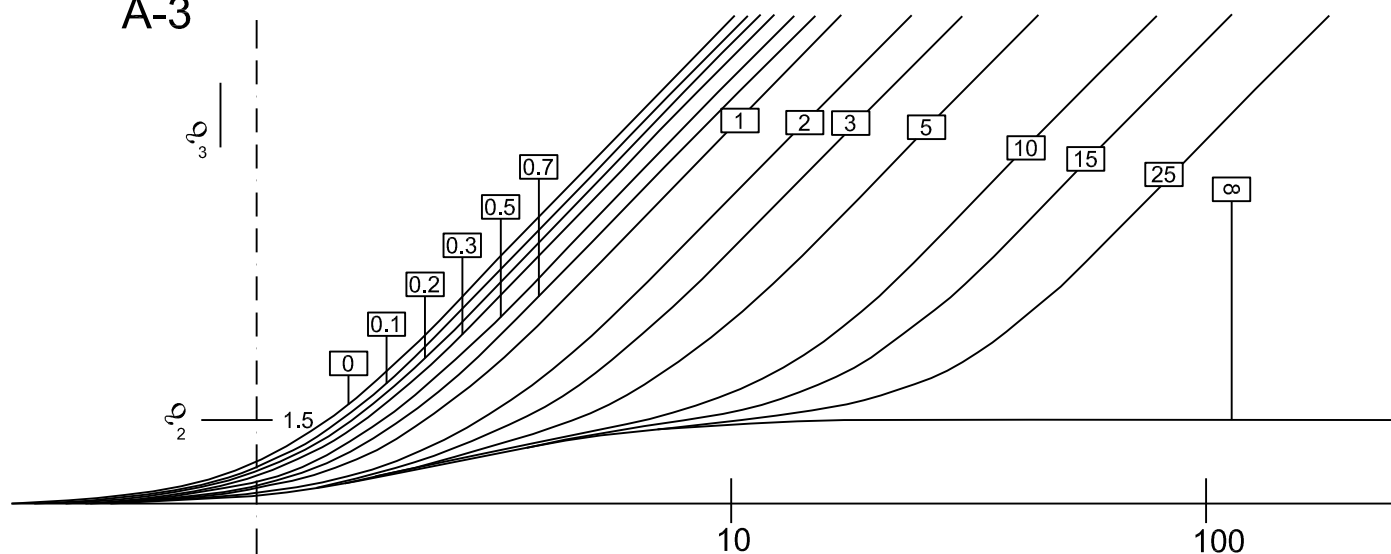
1-1.5-5



$\sigma_a$  AB/2

1-1.5- $\infty$

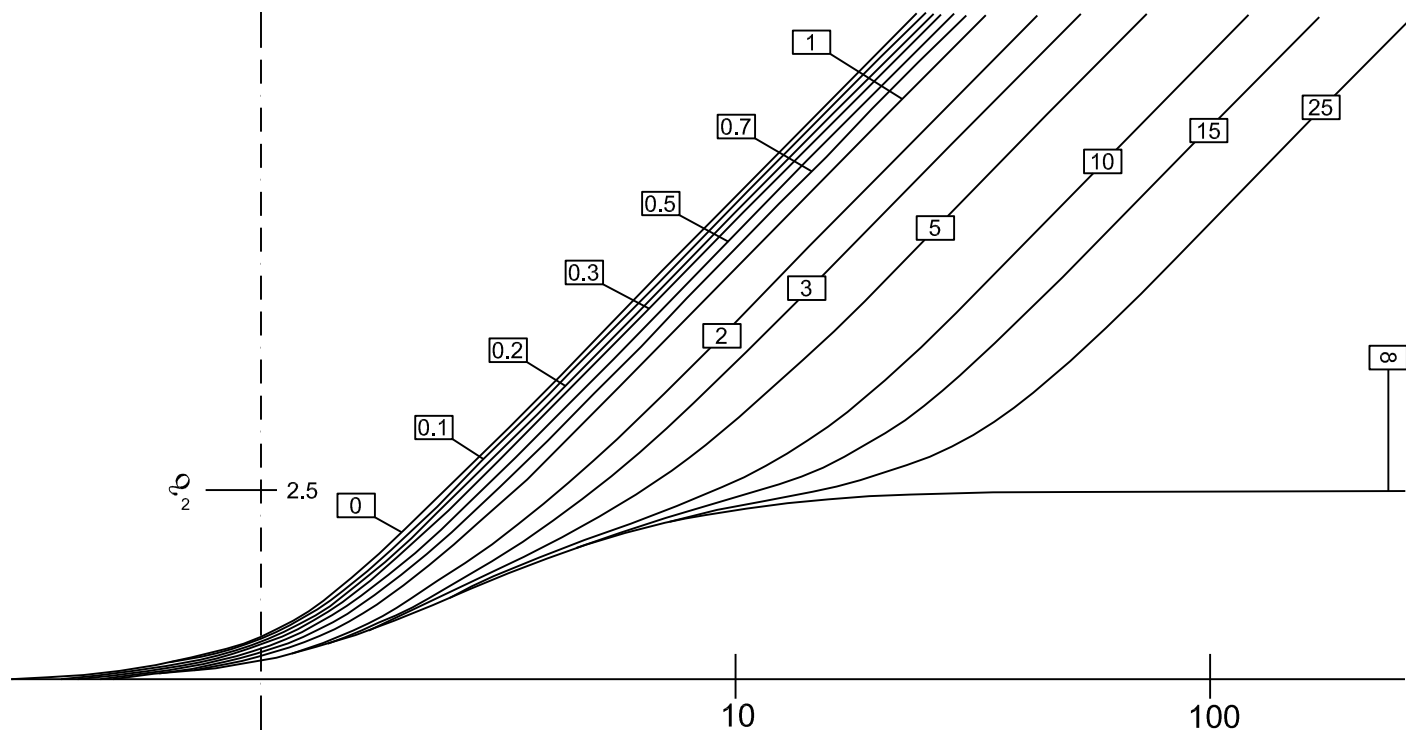
A-3



$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

1-2.5- $\infty$

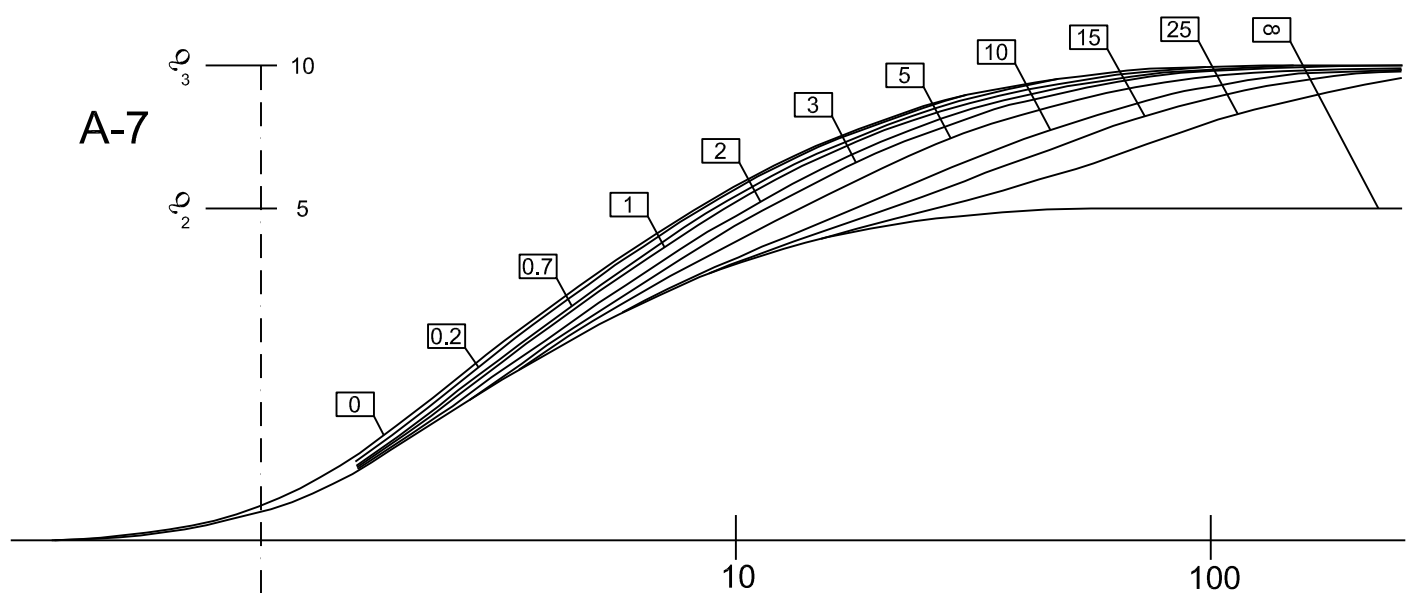
A-6



$\rho_a$  AB/2

1-5-10

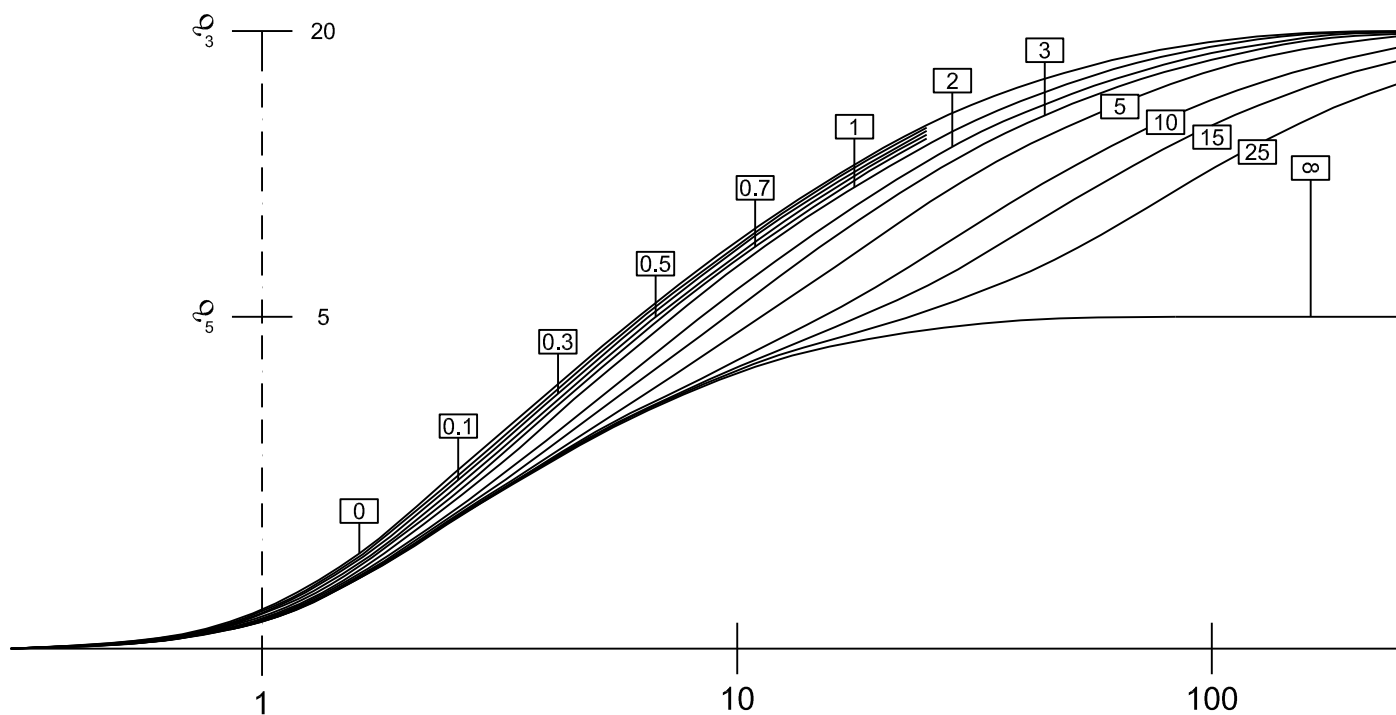
A-7



$$E_1 = 1; \rho_1 = 1; E_2 = \square$$

A-8

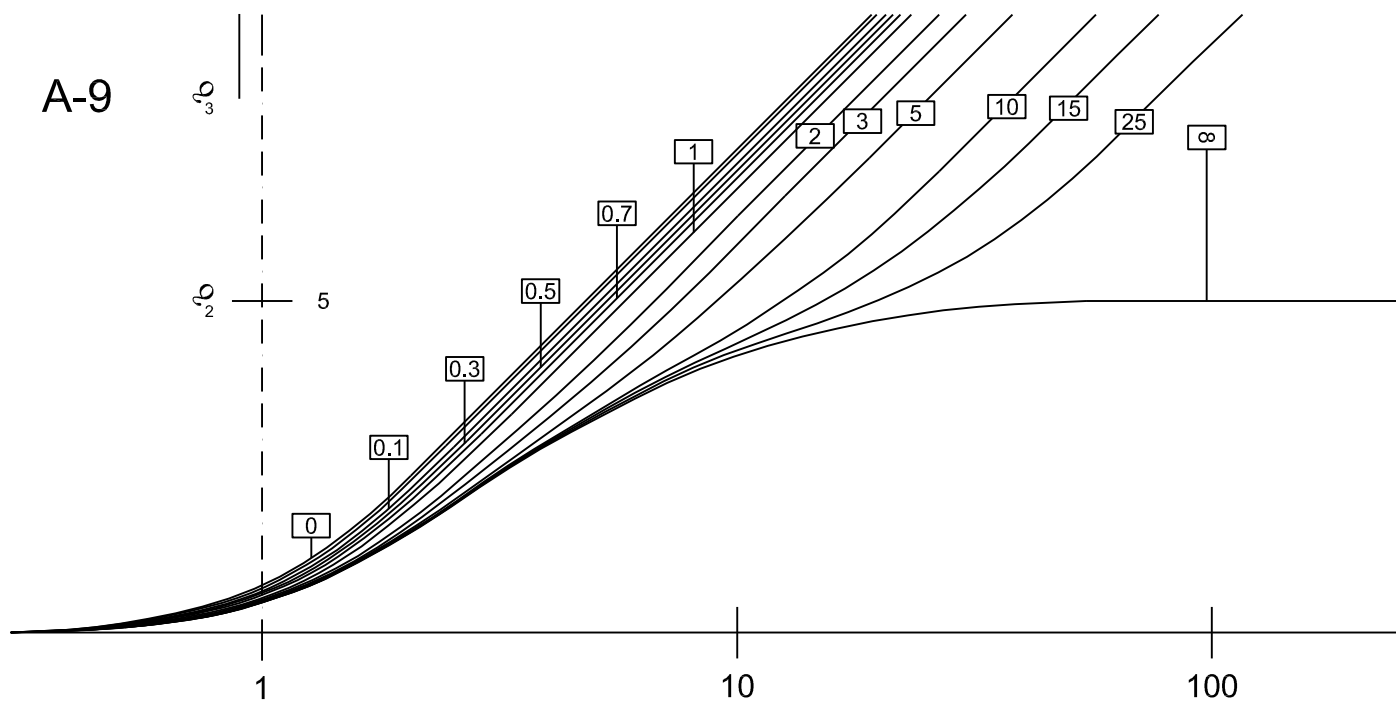
1-5-20



$\rho_\alpha$   $AB/2$

1-5- $\infty$

A-9

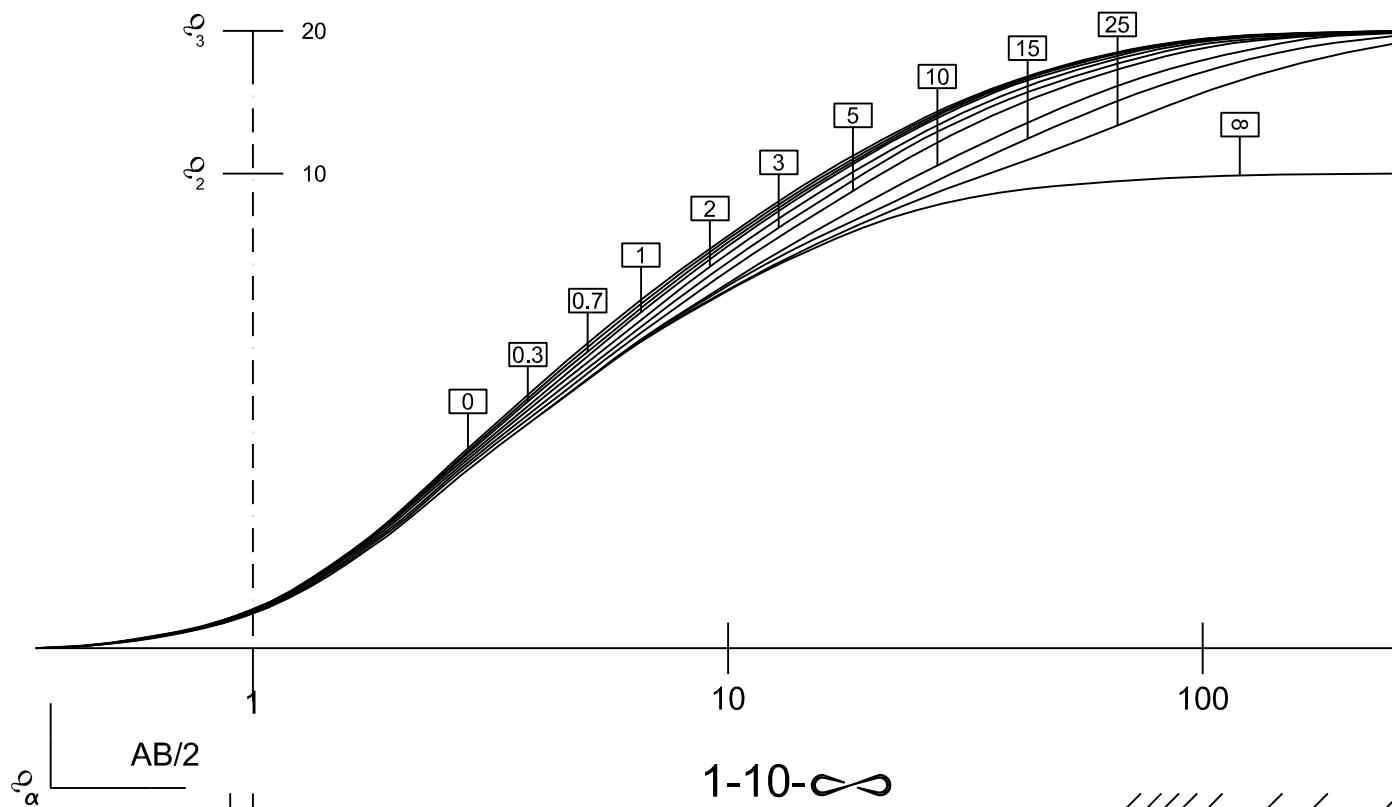


$$E_1 = 1 : \rho_1 = 1 : E_2 = \square$$

A-10

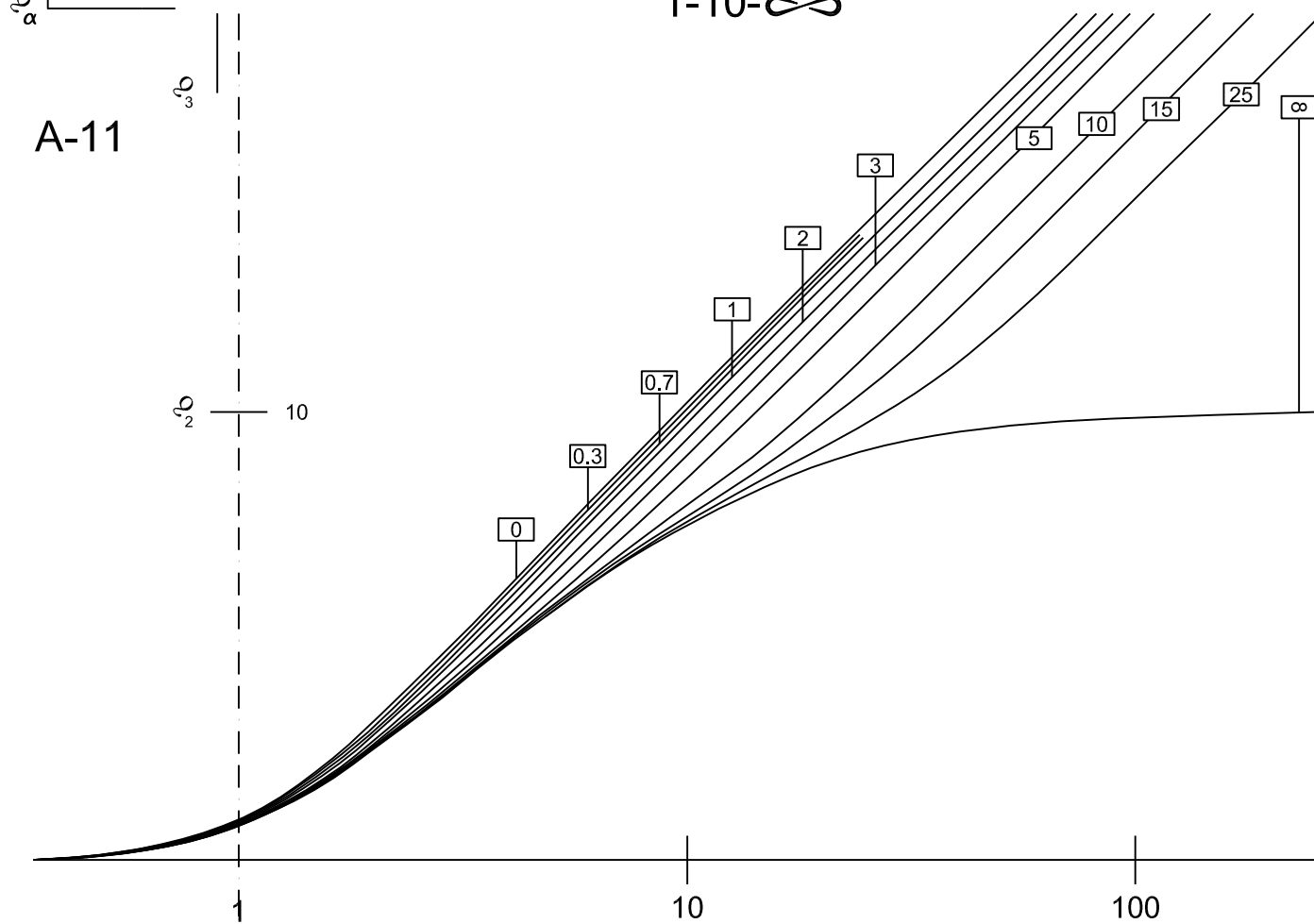
1-10-20

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A-11

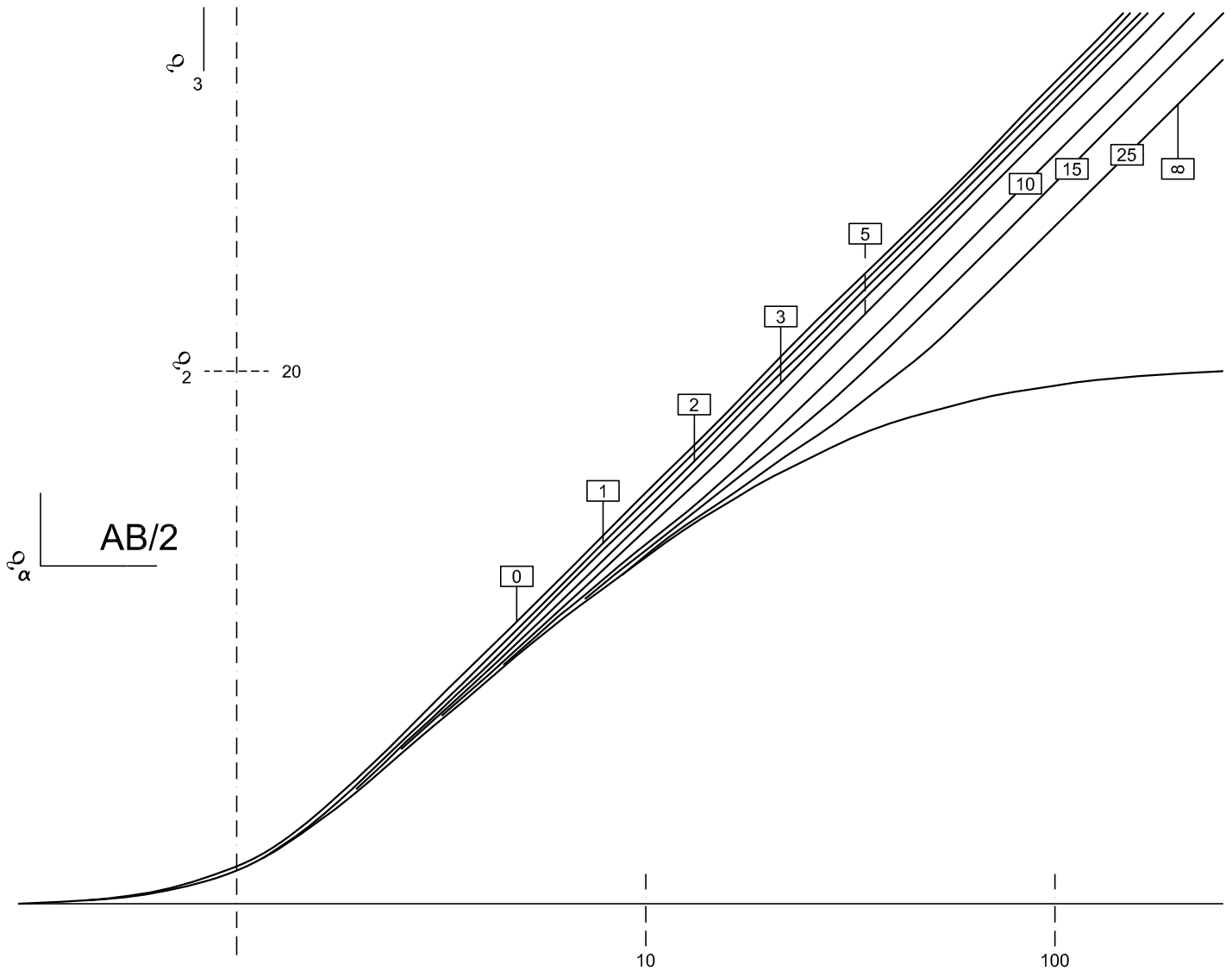
1-10- $\infty$



$E_1 = 1: \varphi_1 = 1: E_2 = \square$

A-12

1-20- $\infty$

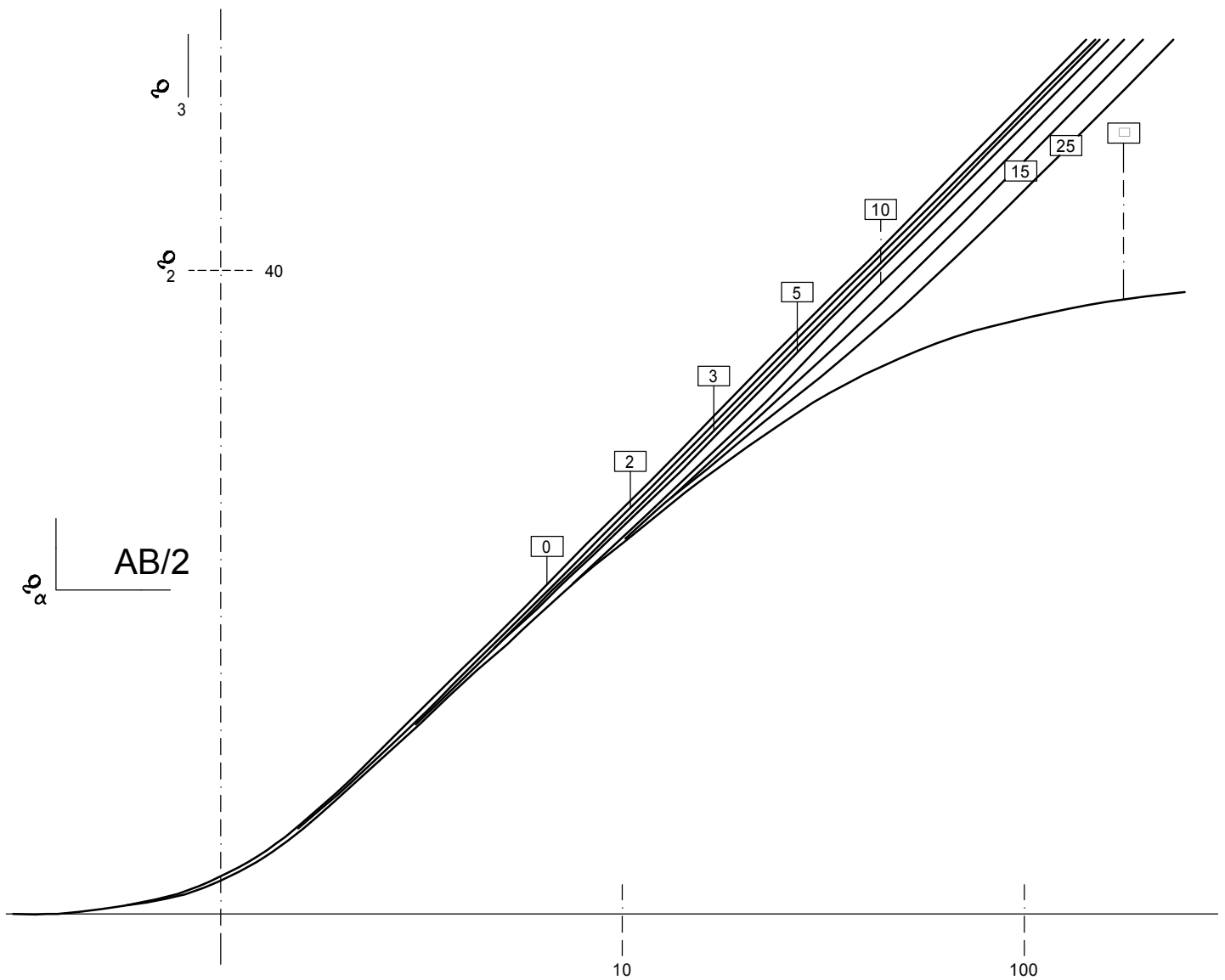


$$E_1 = 1; \nu_1 = 1; E_2 = \square$$

A-13

SHEET 41  
LAMINA

1-20- $\infty$

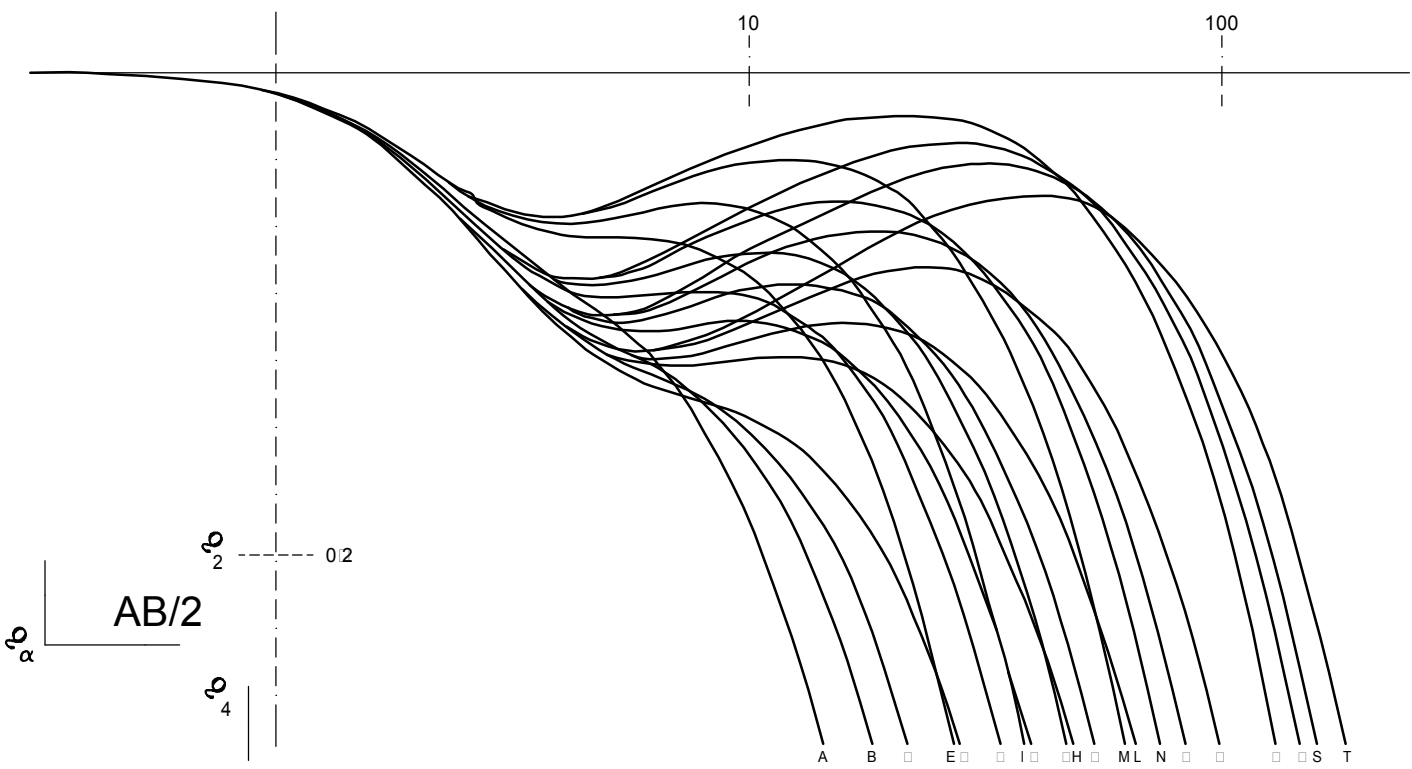


$$E_1 = 1 \quad \nu_1 = 1 \quad E_2 = \square$$



1-02-1-0

H-1



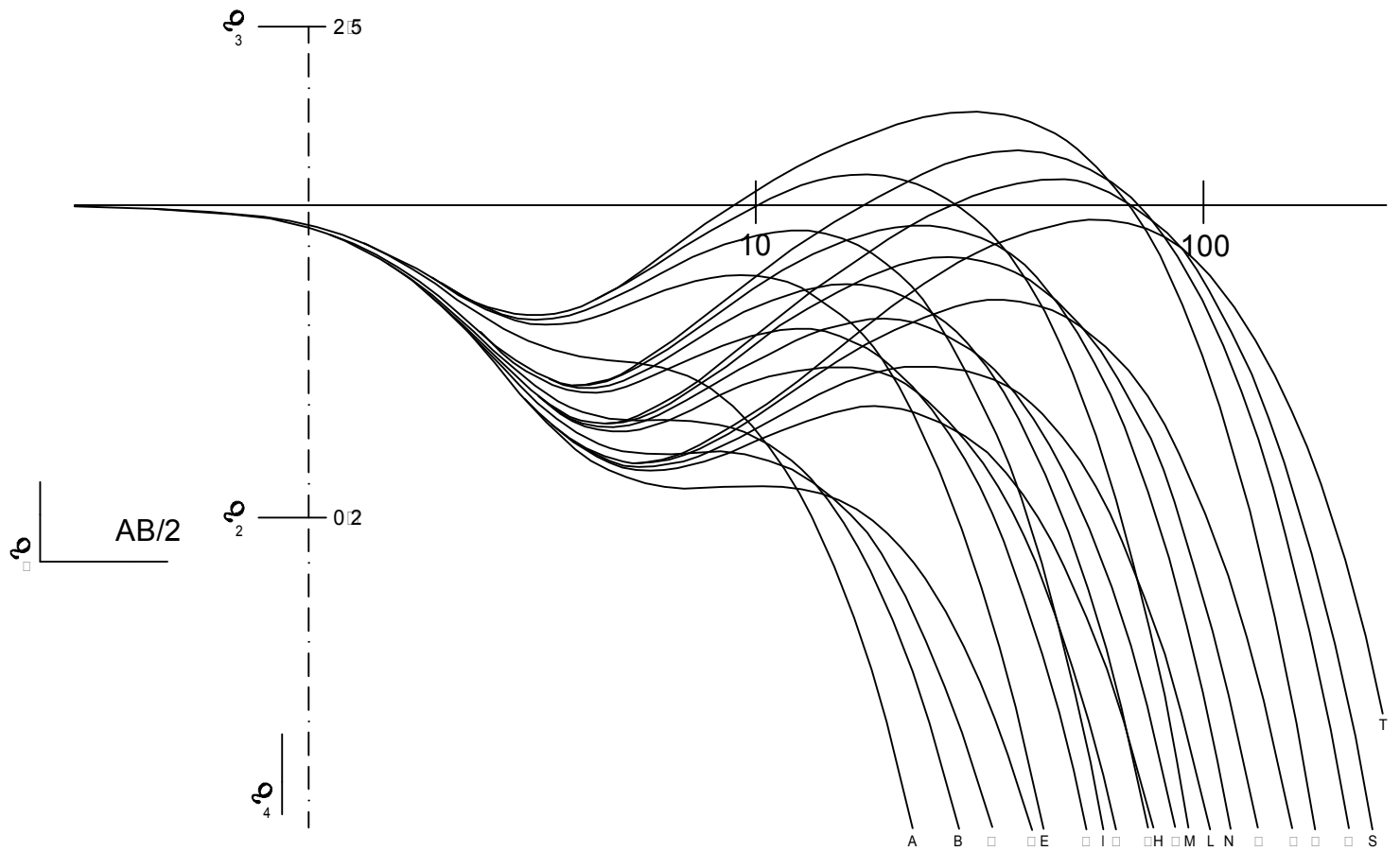
$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$
A1-1	E1-3	I1-5	M1-10	Q1-25
B2-1	C2-3	C2-5	N2-10	Q2-25
C3-1	C3-3	C3-5	C3-10	S3-25
C5-1	H5-3	L5-5	C5-10	T5-25

$E_1 = 1 \times 10^6$

AS E AT AAS

H□-2

1-0□2-2□5-0



$E_2 - E_3$

A□1-1

B□2-1

□□3-1

□□5-1

$E_2 - E_3$

E□1-3

□□2-3

□□3-3

H□5-3

$E_2 - E_3$

I□1-5

□□2-5

□□3-5

L□5-5

$E_2 - E_3$

M□1-10

N□2-10

□□3-10

□□5-10

$E_2 - E_3$

□□1-25

□□2-25

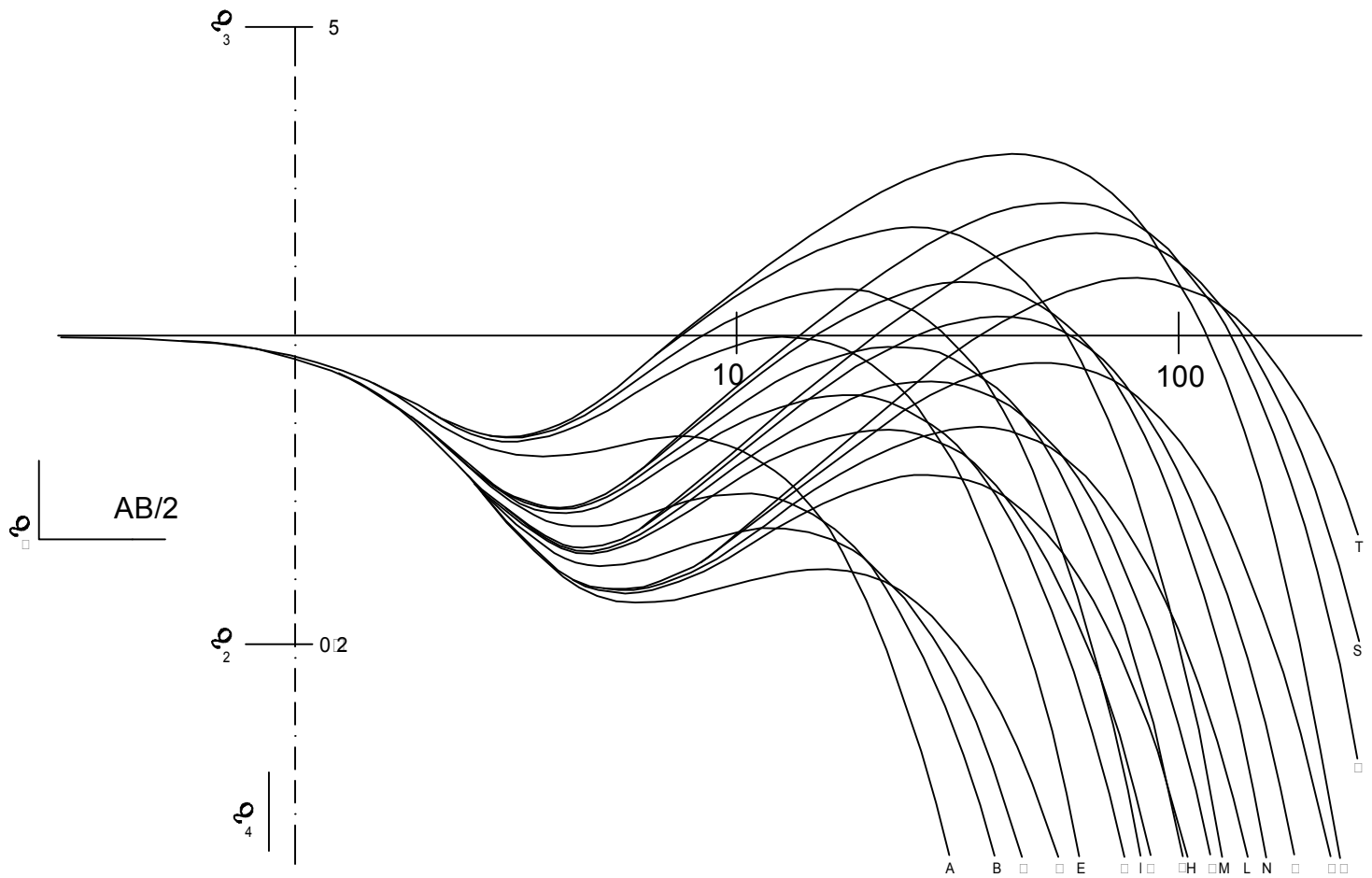
S□3-25

T□5-25

$$E_1 = 1 \quad \rho_1 = 1$$

1-0□2-5-0

H□-3

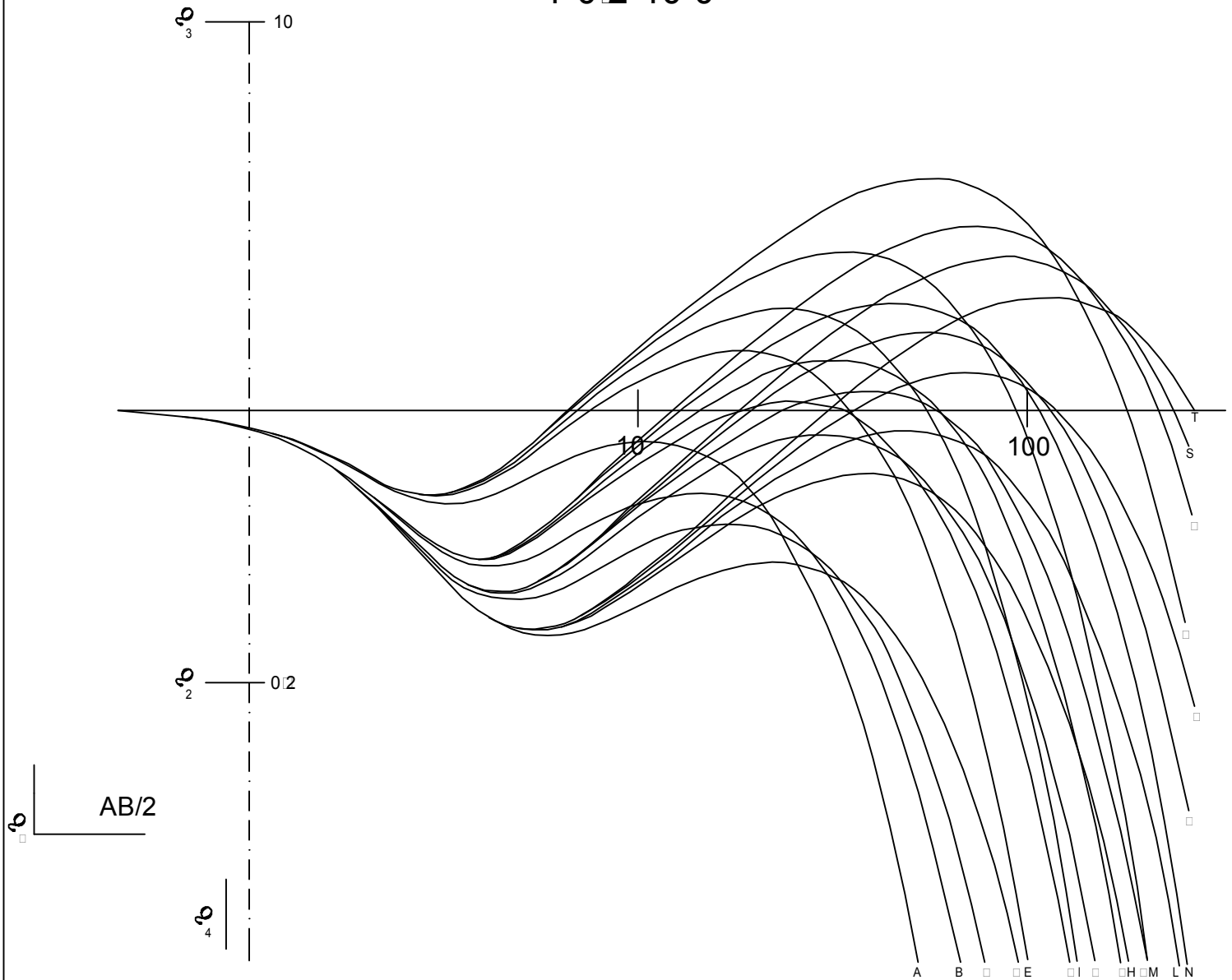


$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$
A□-1	E□-3	I□-5	M□-10	□□-25
B□-1	□□-2-3	□□-2-5	N□-10	□□-2-25
□□-3-1	□□-3-3	□□-3-5	□□-3-10	S□-25
□□-5-1	H□-5-3	L□-5-5	□□-5-10	T□-25

$$E_1 = 1 \quad \phi_1 = 1$$

H□-4

1-0□2-10-0



$E_2 - E_3$

A□-1

B□-1

□3-1

□5-1

$E_2 - E_3$

E□-3

□2-3

□3-3

H□-3

$E_2 - E_3$

I□-5

□2-5

□3-5

L□-5

$E_2 - E_3$

M□-10

N□-10

□3-10

□5-10

$E_2 - E_3$

□1-25

□2-25

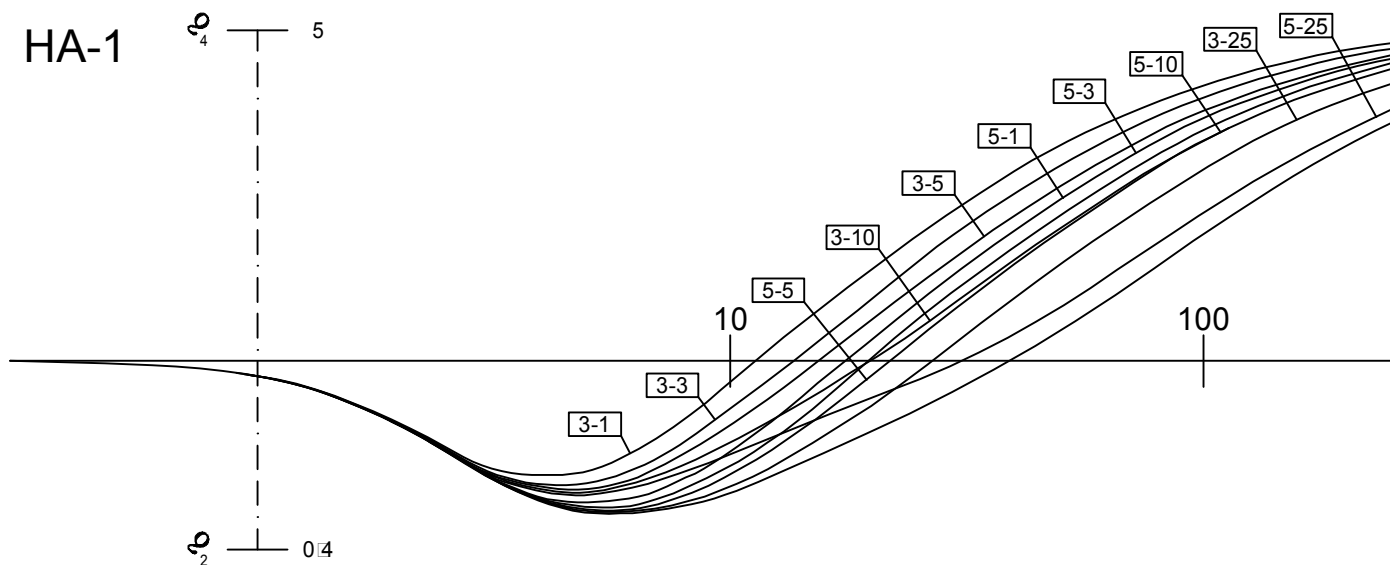
S□-25

T□-25

$$E_1 = 1 \quad \rho_1 = 1$$

1-0 4-1-5

HA-1

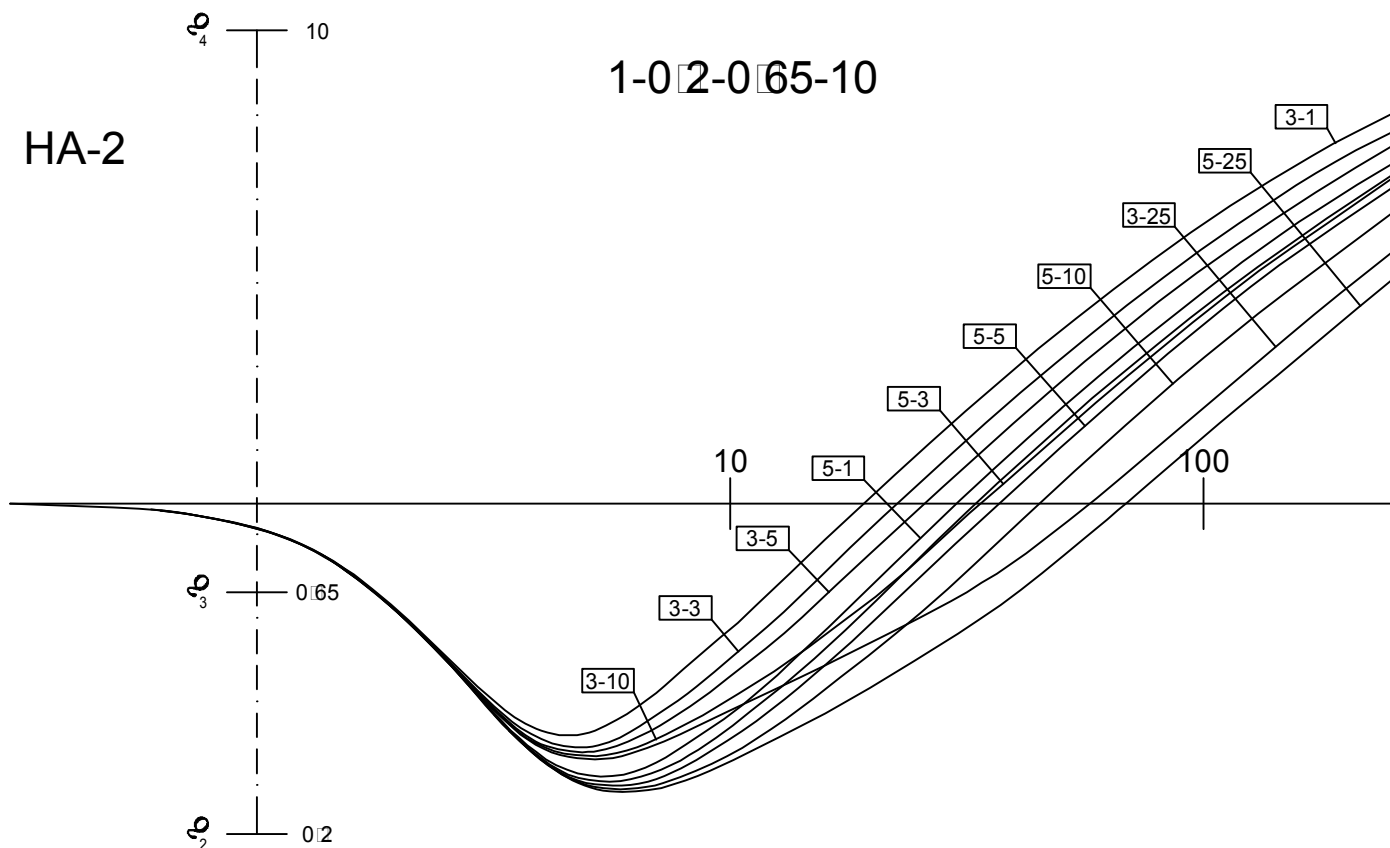


$$\phi_1 = 1:E_1 = 1:E_2 - E_3 = \boxed{-}$$

$\phi_\alpha$  AB/2

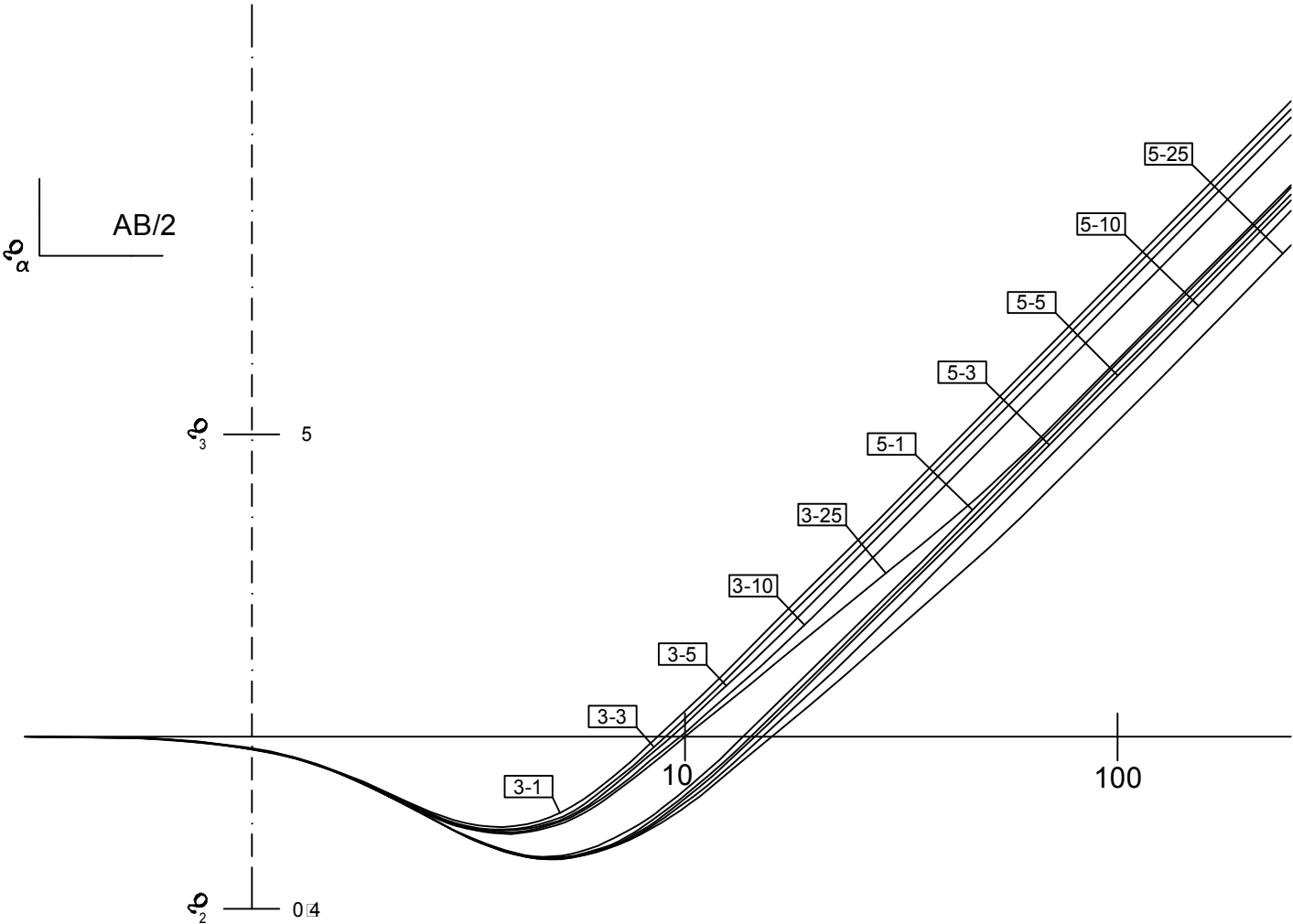
1-0 2-0 65-10

HA-2



1-04-5-∞

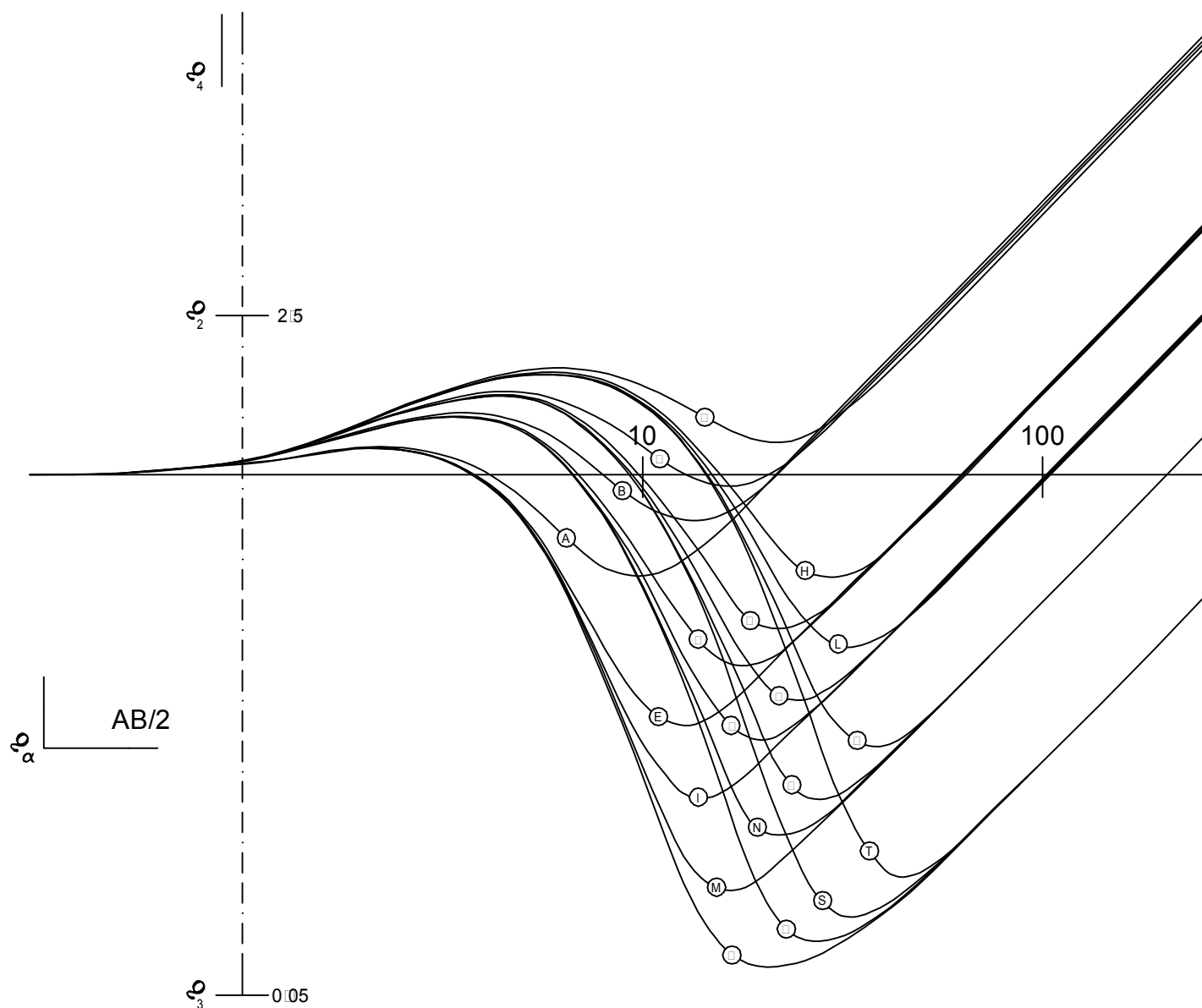
HA-3



$\rho_1 = 1:E_1 = 1:E_2 - E_3 = \square$

1-2 5-0 05-∞

H-1



$E_1-E_3$

$E_2-E_3$

$E_2-E_3$

$E_2-E_3$

$E_2-E_3$

A 1-1

E 1-3

I 1-5

M 1-10

1 1-25

B 2-1

2 2-3

2 2-5

N 2-10

2 2-25

3 3-1

3 3-3

3 3-5

3 3-10

S 3-25

5 5-1

H 5-3

L 5-5

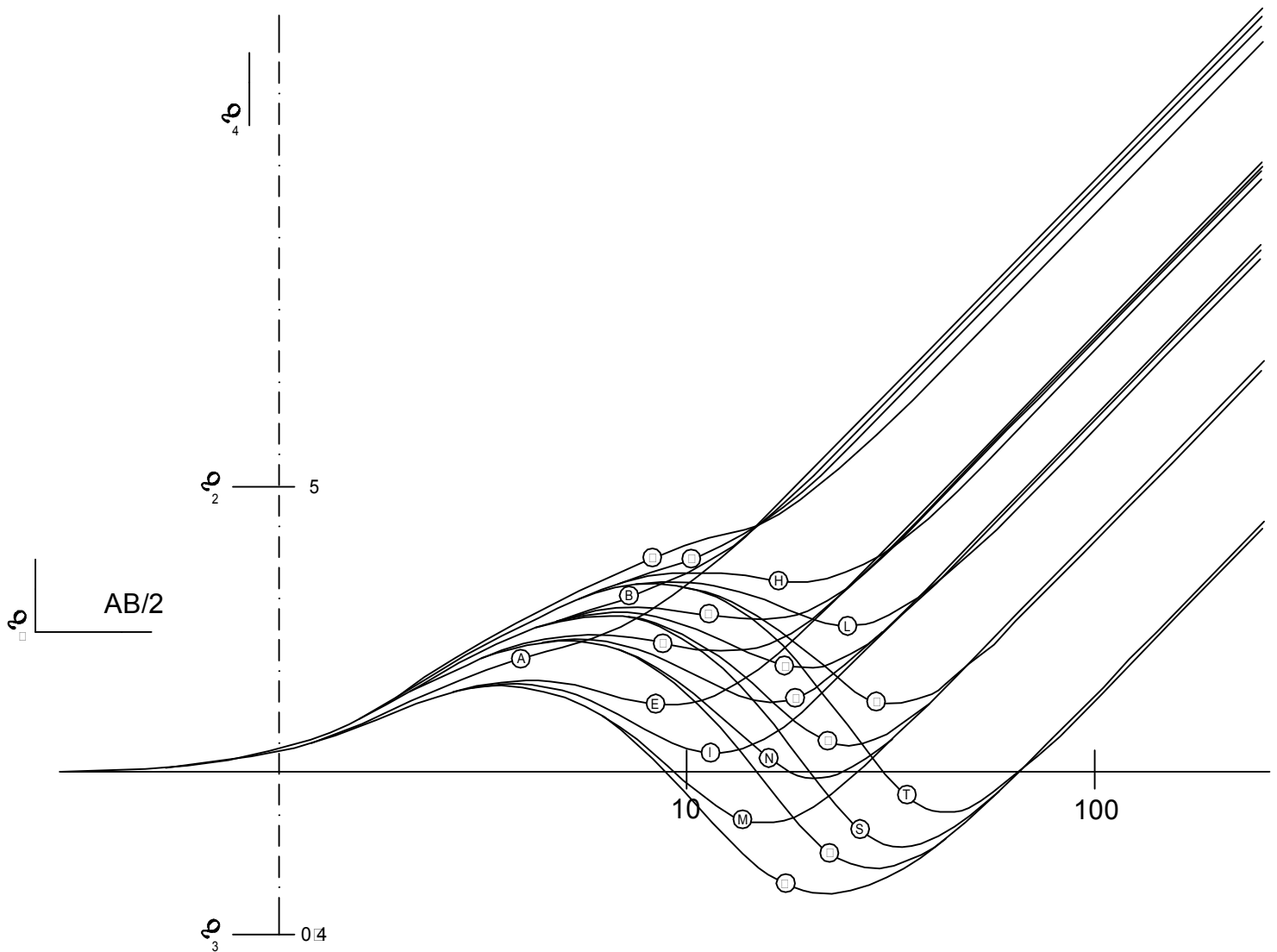
5 5-10

T 5-25

$E_1 = 1: \rho_1 = 1$

H-2

1-5-04-∞



$E_2 - E_3$

A1-1

B2-1

3-1

5-1

$E_2 - E_3$

E1-3

2-3

3-3

H5-3

$E_2 - E_3$

I1-5

2-5

3-5

L5-5

$E_2 - E_3$

M1-10

N2-10

3-10

5-10

$E_2 - E_3$

1-25

2-25

S3-25

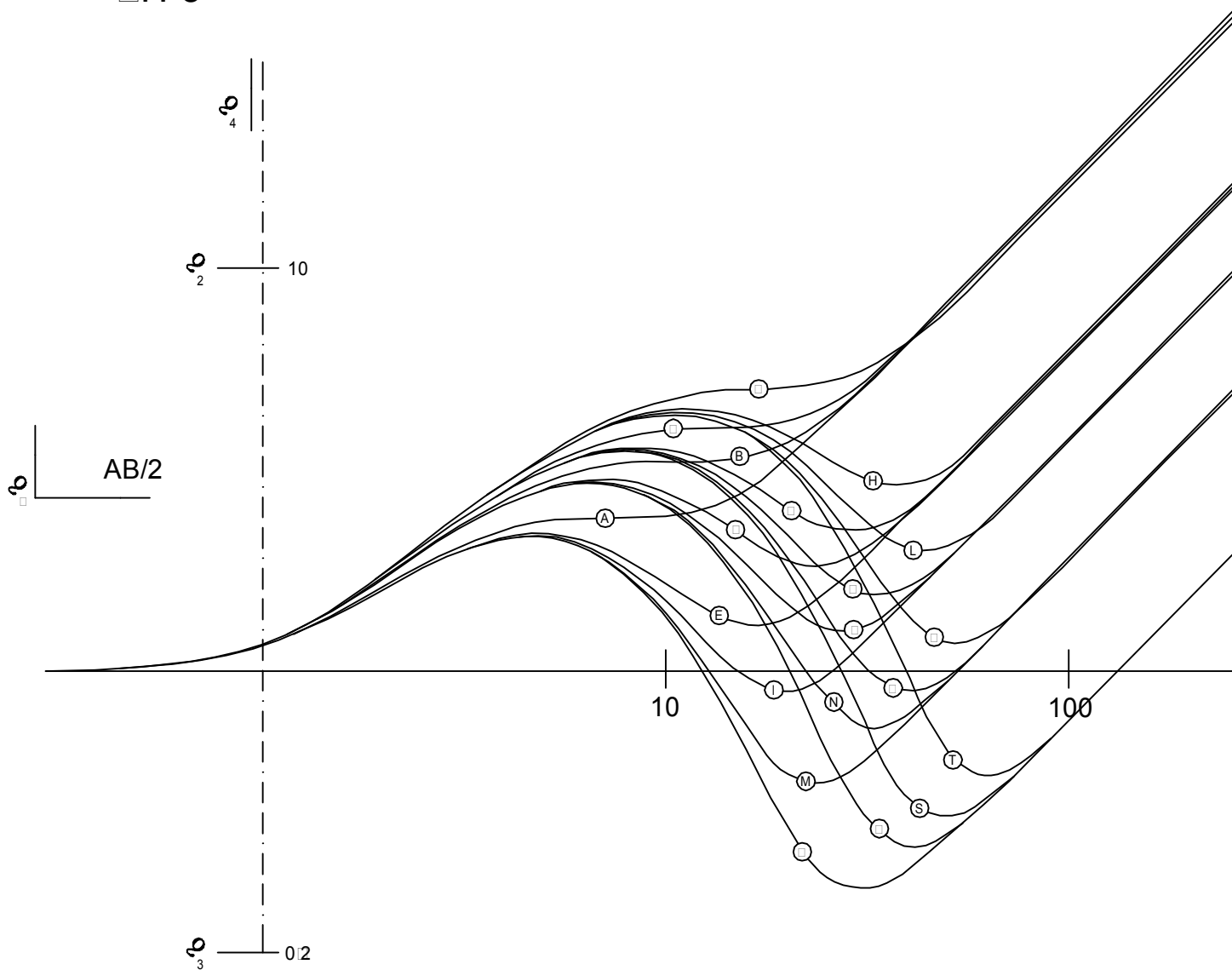
T5-25

$$E = 1 \quad \rho = 1$$



☐ H-3

1-10-02- $\infty$

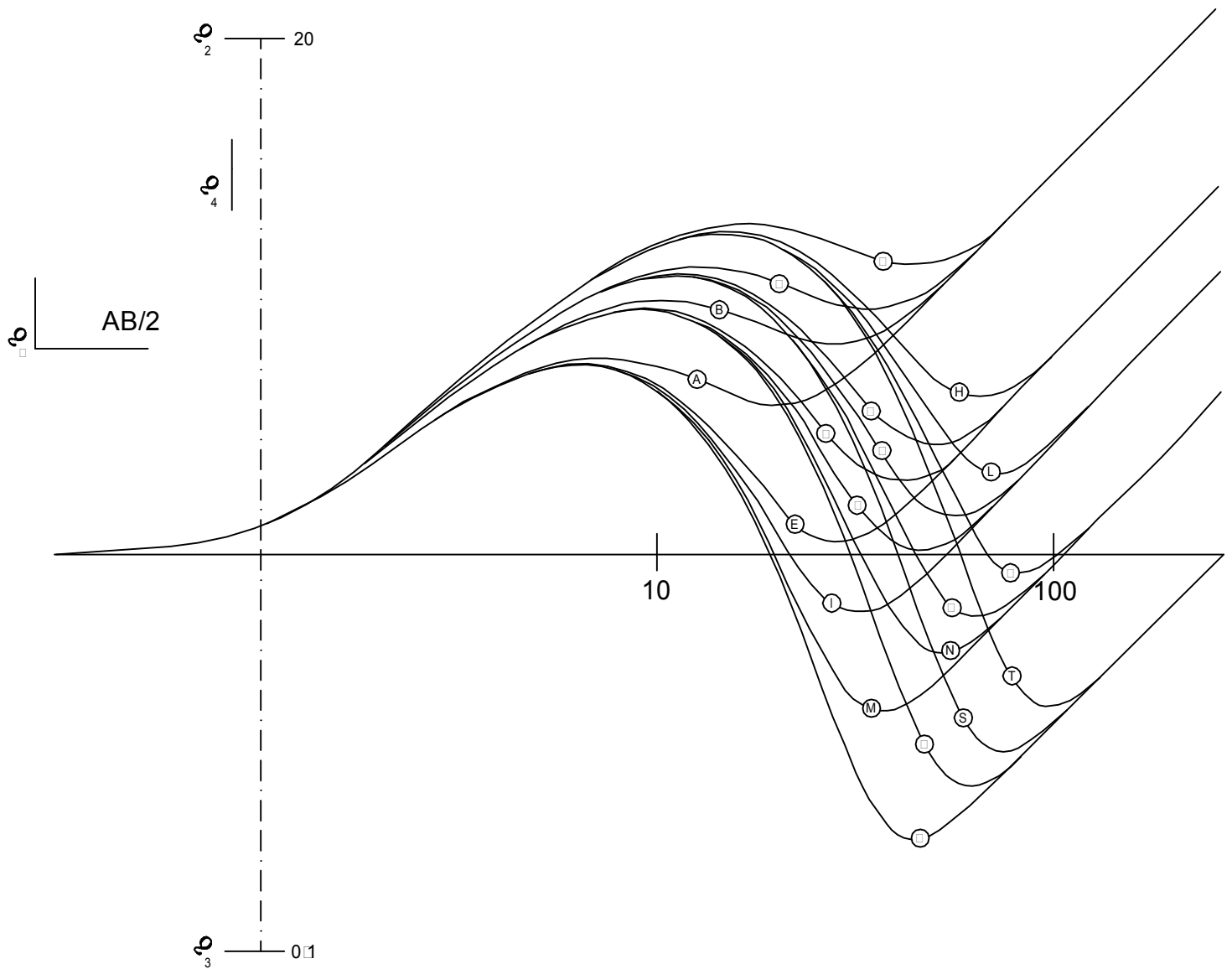


$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$
A1-1	E1-3	I1-5	M1-10	□1-25
B2-1	□2-3	□2-5	N2-10	□2-25
□3-1	□3-3	□3-5	□3-10	S3-25
□5-1	H5-3	L5-5	□5-10	T5-25

$$E \stackrel{1}{=} 1 \square \circ \stackrel{1}{=} 1$$

H-4

1-20-01- $\infty$



$E_2-E_3$

A1-1

B2-1

3-1

5-1

$E_2-E_3$

E1-3

2-3

3-3

H5-3

$E_2-E_3$

I1-5

2-5

3-5

L5-5

$E_2-E_3$

M1-10

N2-10

3-10

5-10

$E_2-E_3$

1-25

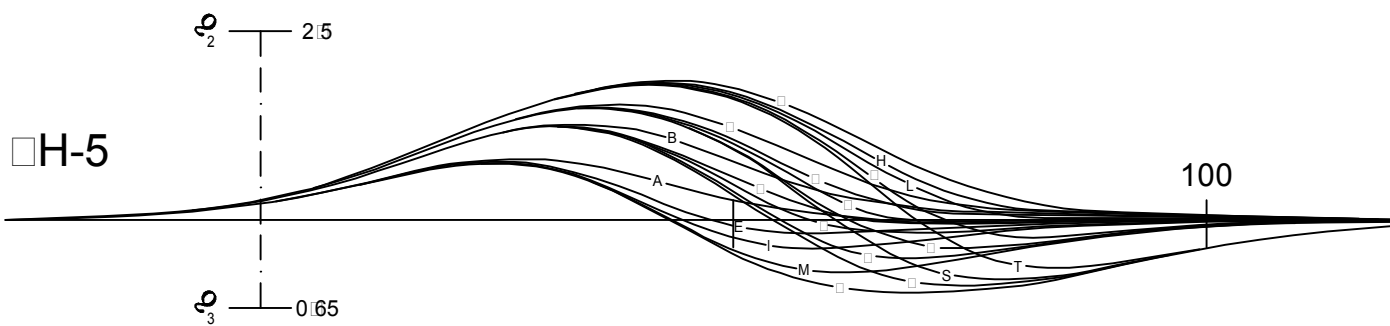
2-25

S3-25

T5-25

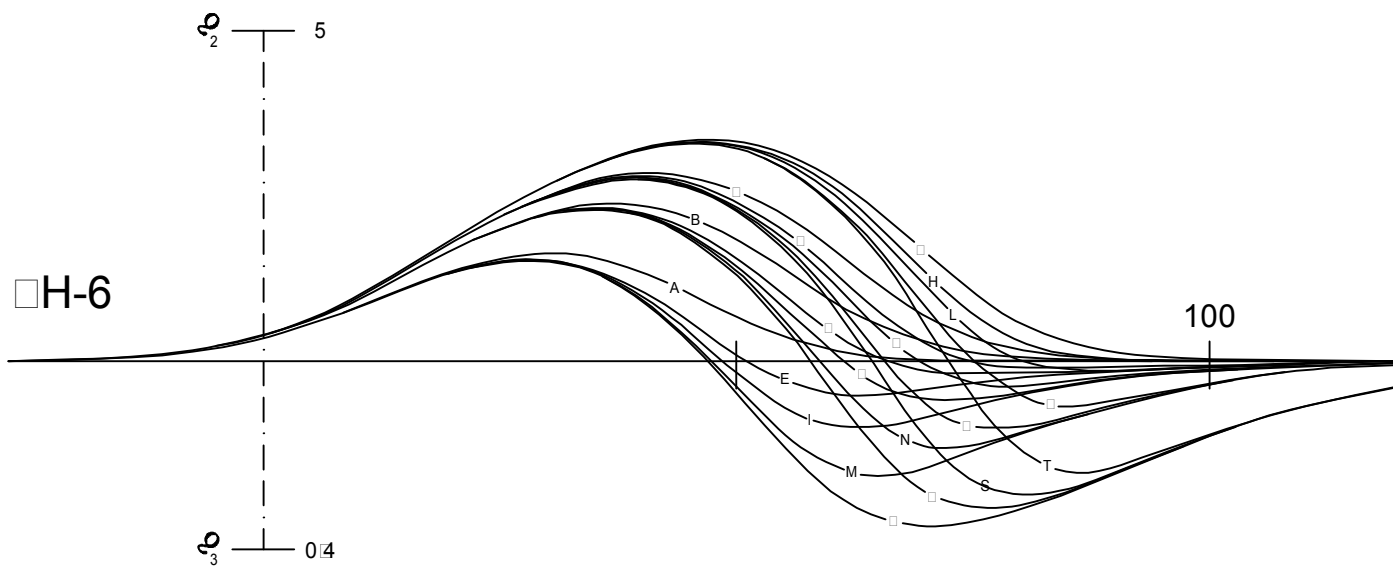
$$E = 1 \quad \rho = 1$$

1-2 5-0 65-1



$\rho_\alpha$  AB/2

1-5-0 4-1

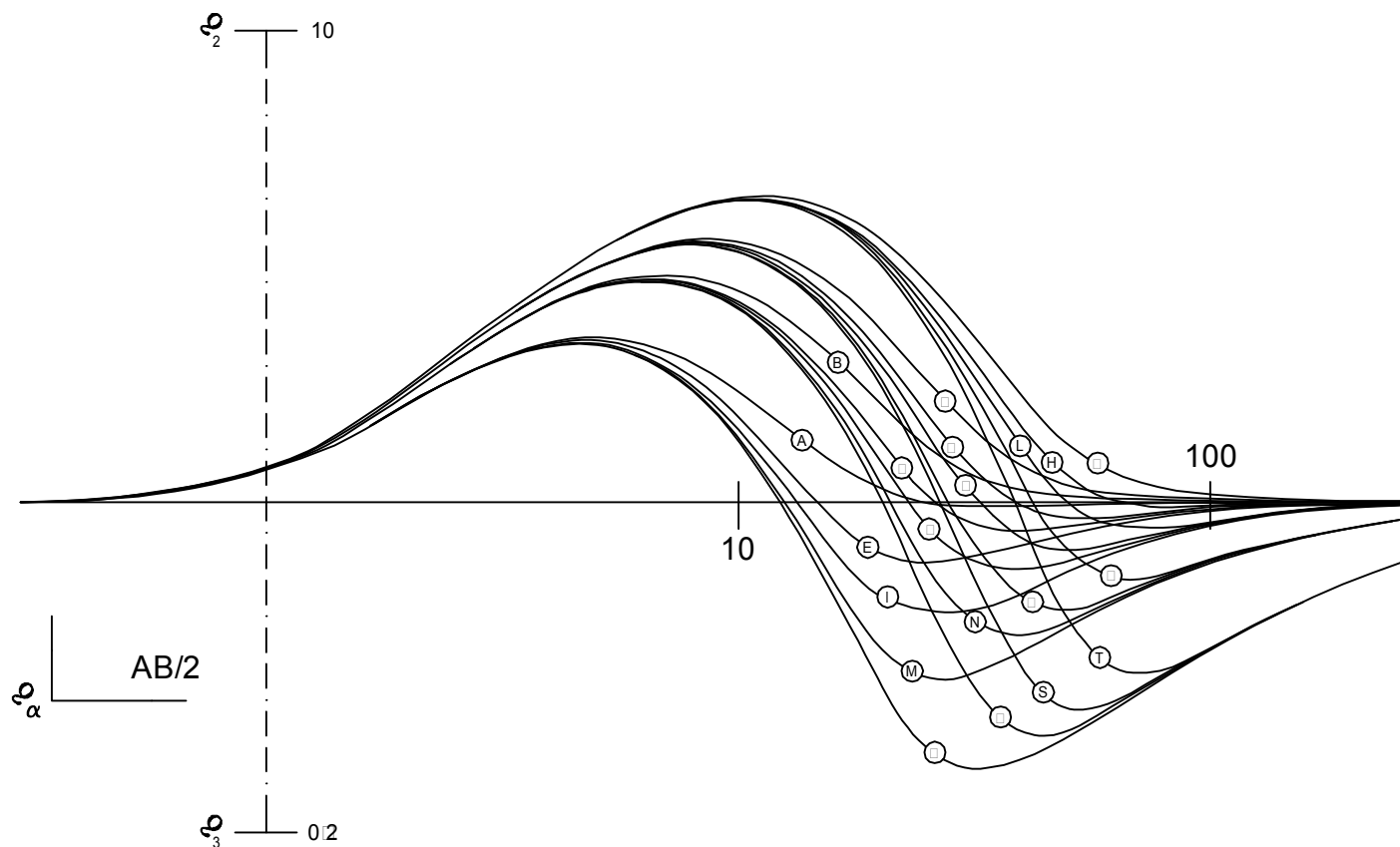


$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$	$E_2 - E_3$
A 1-1	E 1-3	I 1-5	M 1-10	□ 1-25
B 2-1	□ 2-3	□ 2-5	N 2-10	□ 2-25
□ 3-1	□ 3-3	□ 3-5	□ 3-10	S 3-25
□ 5-1	H 5-3	L 5-5	□ 5-10	T 5-25

$$E_1 = 1; \rho_1 = 1$$

H-

1-10-02-1

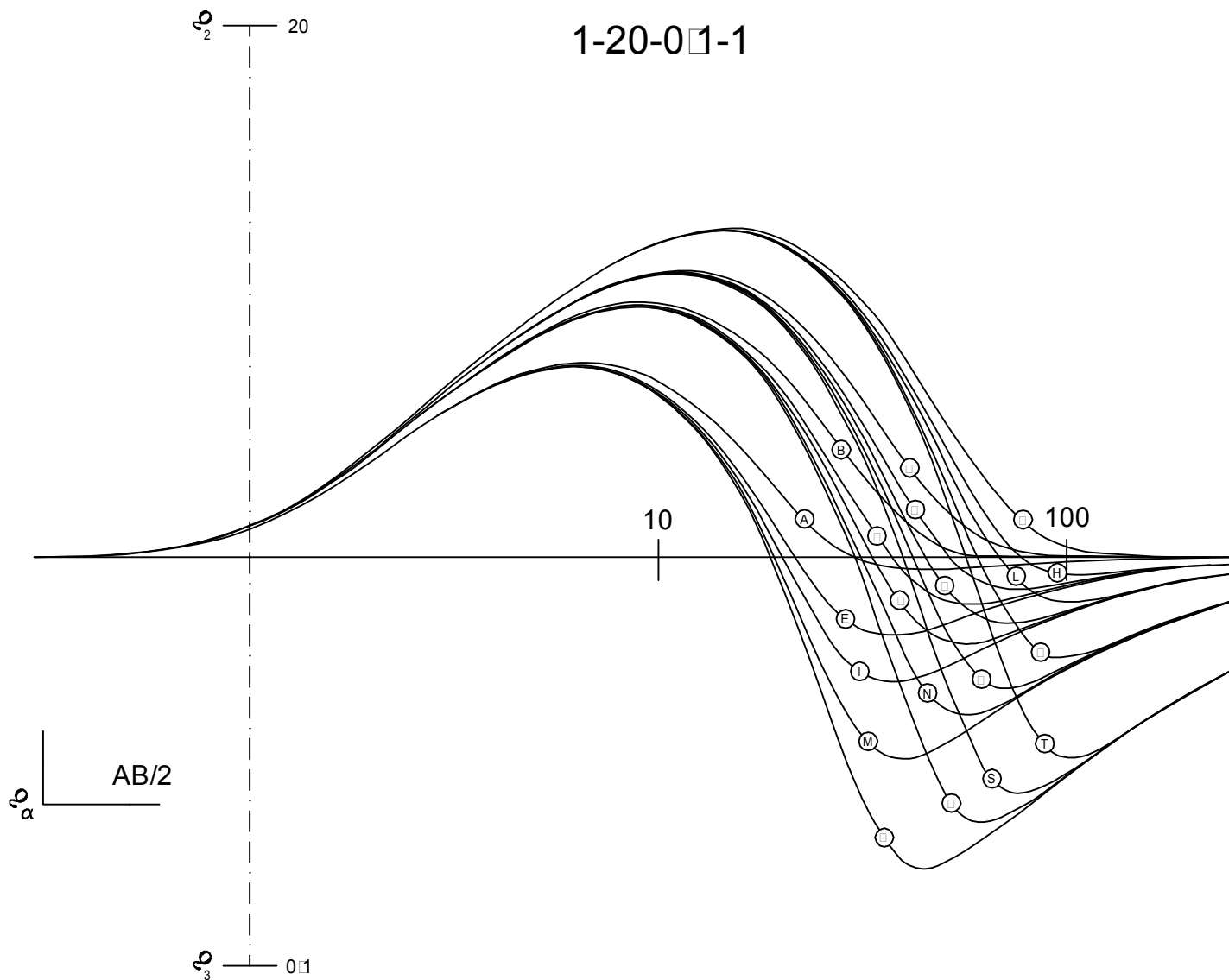


$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$	$E_2-E_3$
A 1-1	E 1-3	I 1-5	M 1-10	□ 1-25
B 2-1	□ 2-3	□ 2-5	N 2-10	□ 2-25
□ 3-1	□ 3-3	□ 3-5	□ 3-10	S 3-25
□ 5-1	H 5-3	L 5-5	□ 5-10	T 5-25

$$E_1 = 1: \rho_1 = 1$$

H-

1-20-01-1



$E_2 - E_3$

A1-1

B2-1

3-1

5-1

$E_2 - E_3$

E1-3

2-3

3-3

H5-3

$E_2 - E_3$

I1-5

2-5

3-5

L5-5

$E_2 - E_3$

M1-10

N2-10

3-10

5-10

$E_2 - E_3$

1-25

2-25

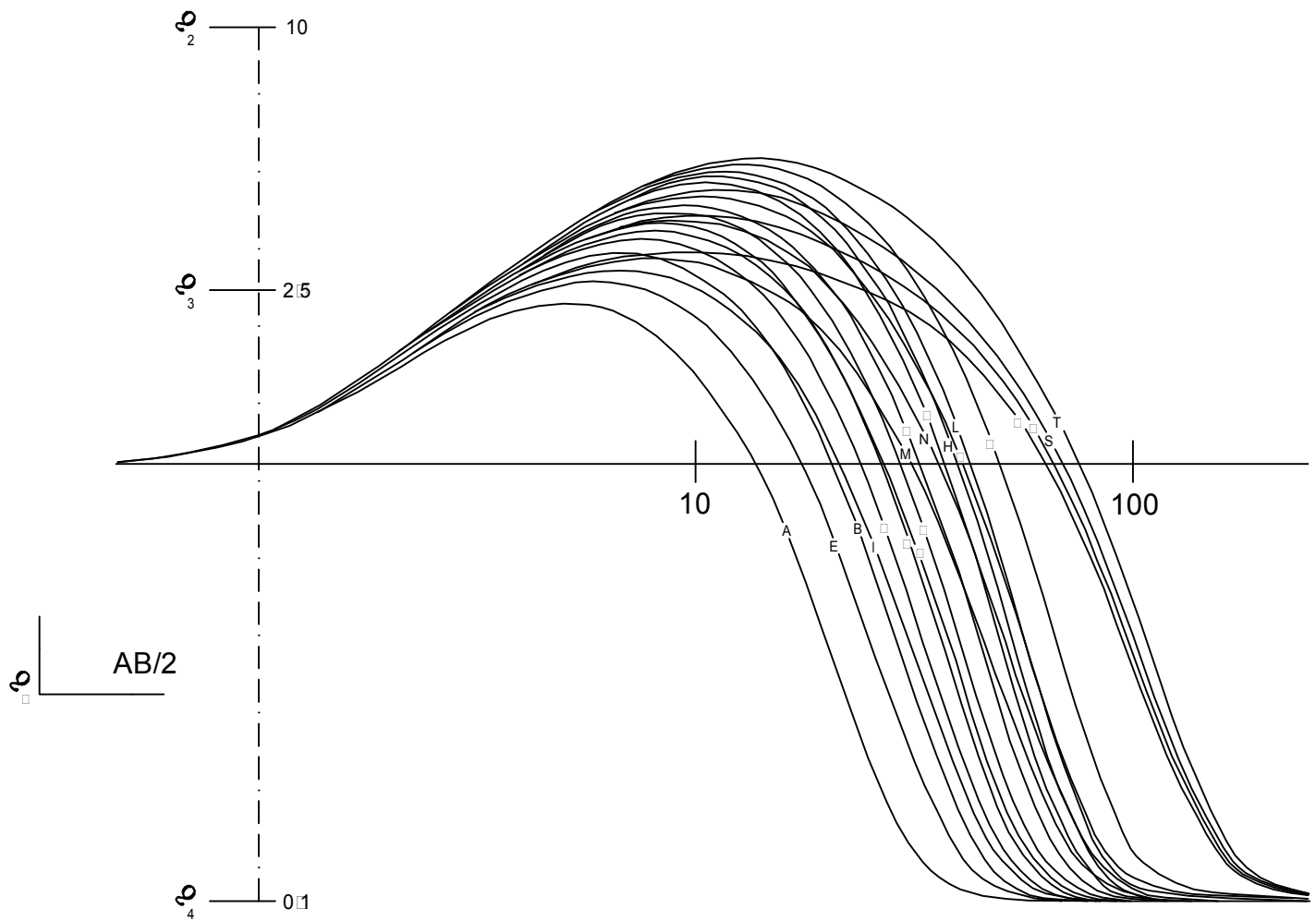
S3-25

T5-25

$$E_1 = 1; \varphi_1 = 1$$

□□-1

1-10-2□5-0□1



$E_2-E_3$

A□1-1

B□2-1

□□3-1

□□5-1

$E_2-E_3$

E□1-3

□□2-3

□□3-3

H□5-3

$E_2-E_3$

I□1-5

□□2-5

□□3-5

L□5-5

$E_2-E_3$

M□1-10

N□2-10

□□3-10

□□5-10

$E_2-E_3$

□□1-25

□□2-25

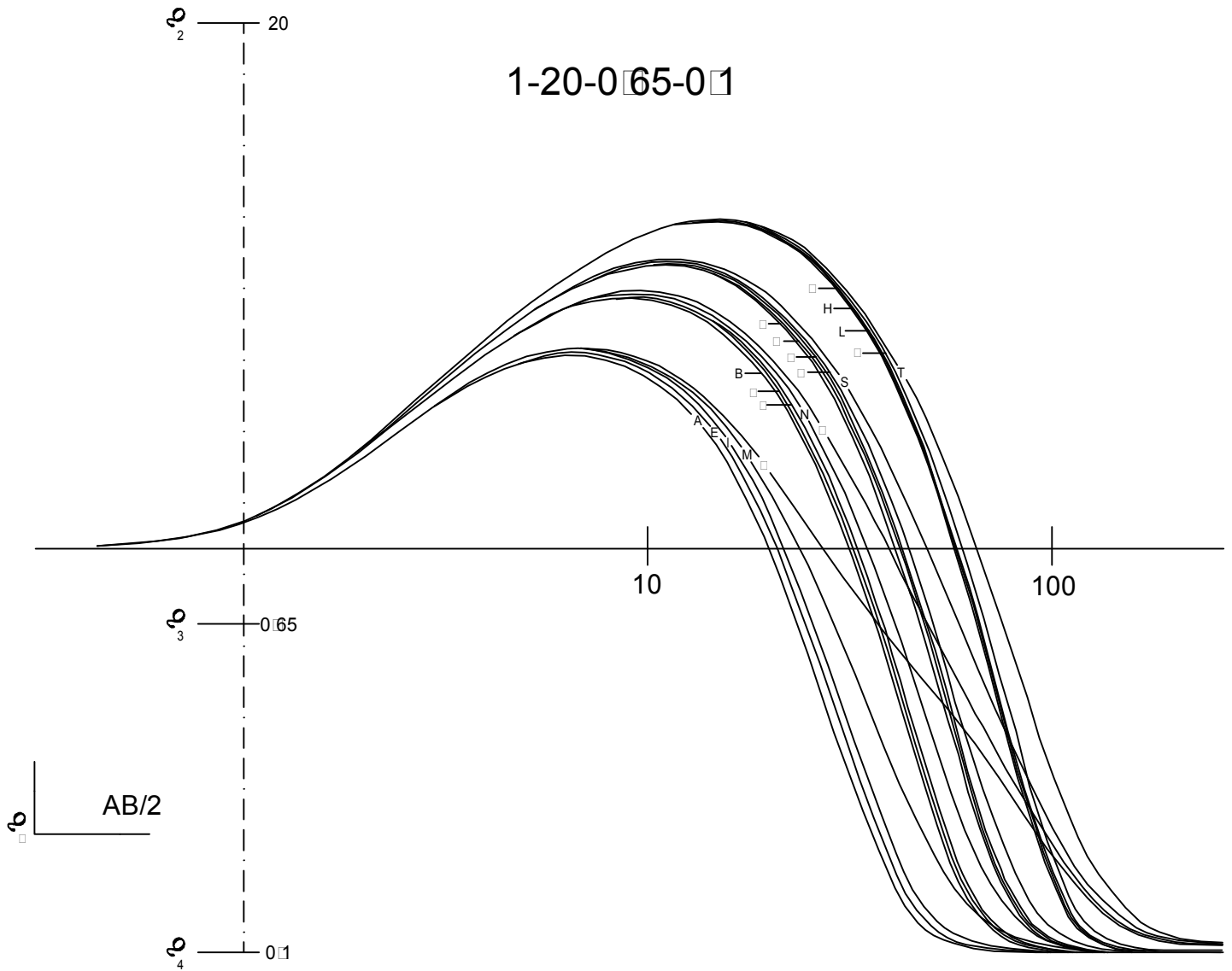
S□3-25

T□5-25

$$E_1 = 1 \quad \varphi_1 = 1$$

□□-2

1-20-0□65-0□1



$E_2 - E_3$

A□1-1

B□2-1

□□3-1

□□5-1

$E_2 - E_3$

E□1-3

□□2-3

□□3-3

H□5-3

$E_2 - E_3$

I□1-5

□□2-5

□□3-5

L□5-5

$E_2 - E_3$

M□1-10

N□2-10

□□3-10

□□5-10

$E_2 - E_3$

□□1-25

□□2-25

S□3-25

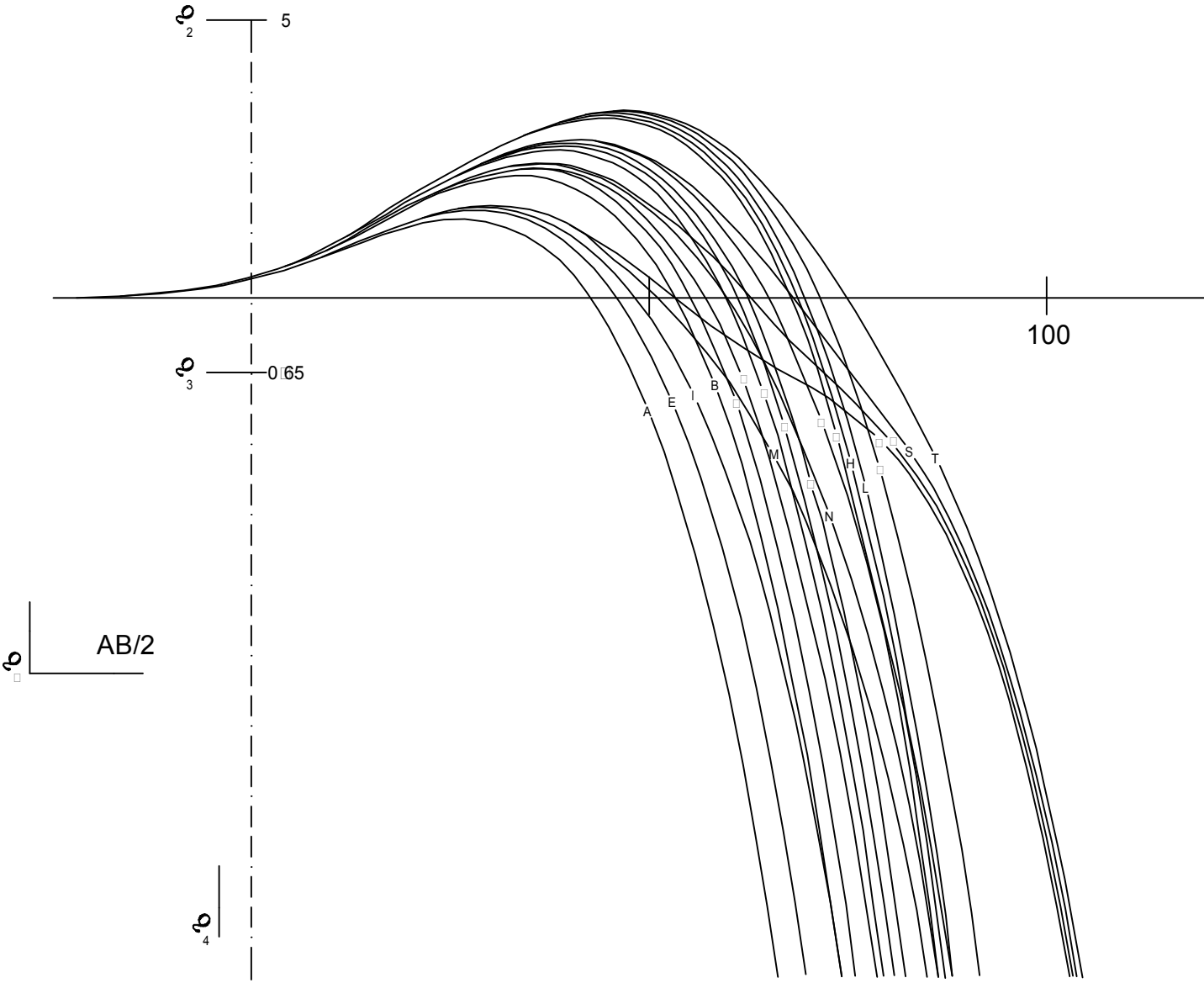
T□5-25

$$E_1 = 1 \quad \phi_1 = 1$$

1-5-0□65-0

SHEET 5  
LAMINA □

□□-3



$E_2-E_3$

A□1-1

B□2-1

□□3-1

□□5-1

$E_2-E_3$

E□1-3

□□2-3

□□3-3

H□5-3

$E_2-E_3$

I□1-5

□□2-5

□□3-5

L□5-5

$E_2-E_3$

M□1-10

N□2-10

□□3-10

□□5-10

$E_2-E_3$

□□1-25

□□2-25

S□3-25

T□5-25

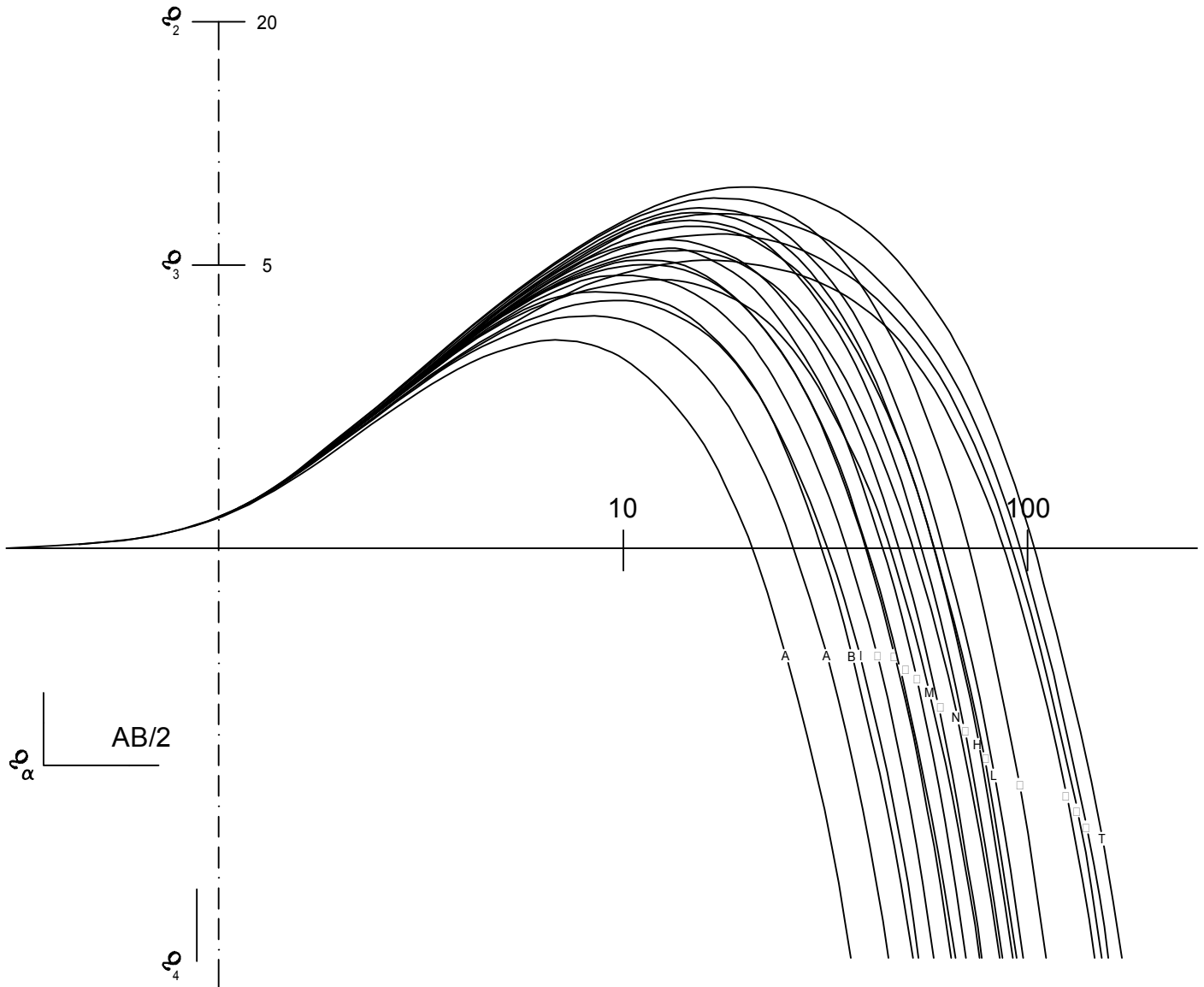
$E_1 = 1 \quad \varphi_1 = 1$



1-20-5-0

SHEET LAMINA 5

-4



$E_1-E_3$

$E_2-E_3$

$E_2-E_3$

$E_2-E_3$

$E_2-E_3$

A1-1

E1-3

I1-5

M1-10

11-25

B2-1

2-3

2-5

N2-10

2-25

3-1

3-3

3-5

3-10

S3-25

5-1

H5-3

L5-5

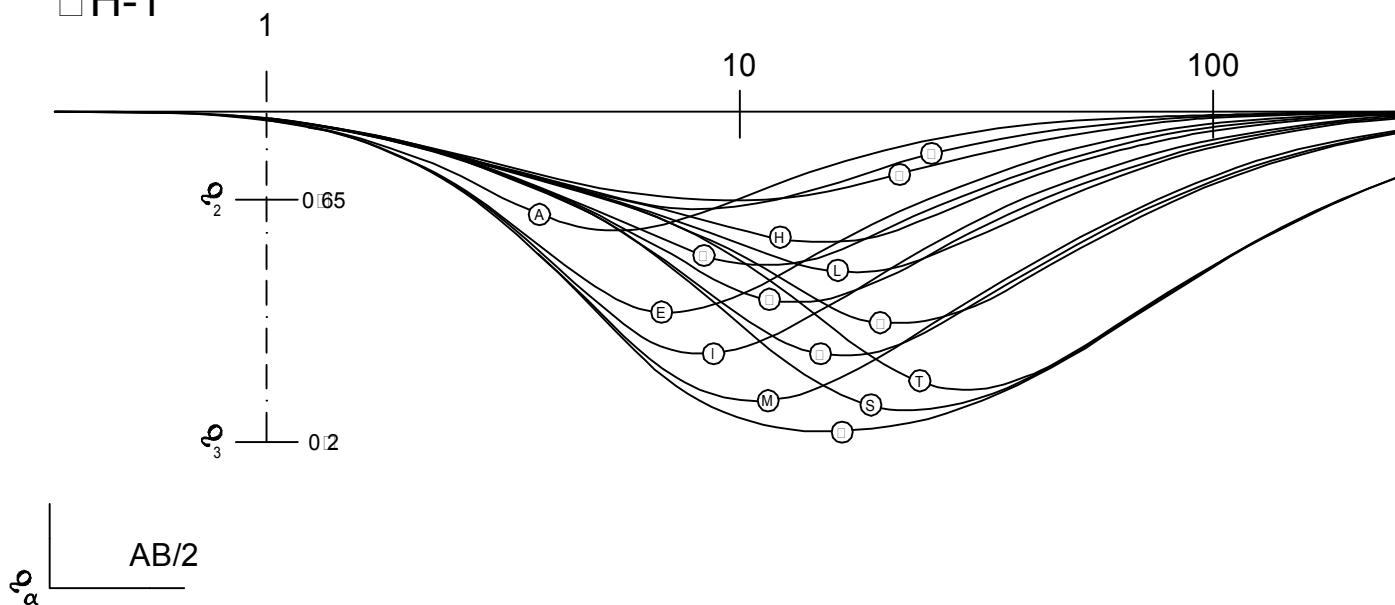
5-10

T5-25

$E_1 = 1: \varphi_1 = 1$

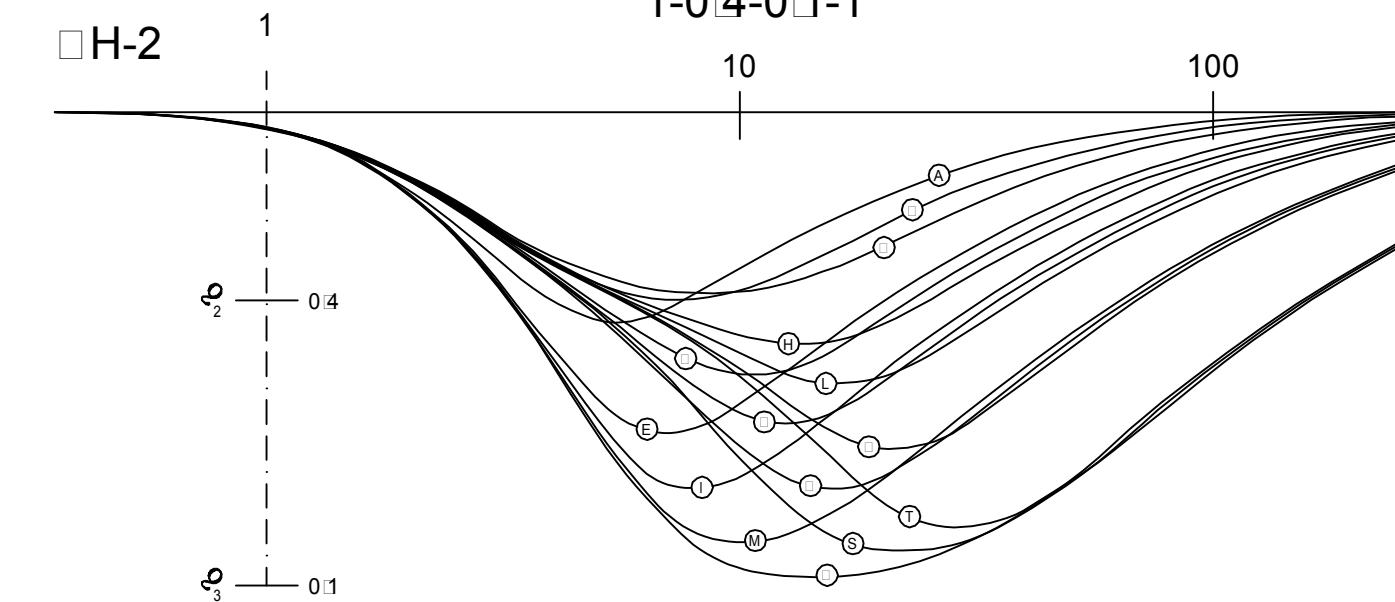
1-0 65-0 2-1

H-1



1-0 4-0 1-1

H-2



$E_2 - E_3$

A 1-1

3-1

5-1

$E_2 - E_3$

E 1-3

3-3

H 5-3

$E_2 - E_3$

I 1-5

3-5

L 5-5

$E_2 - E_3$

M 1-10

3-10

5-10

$E_2 - E_3$

1-25

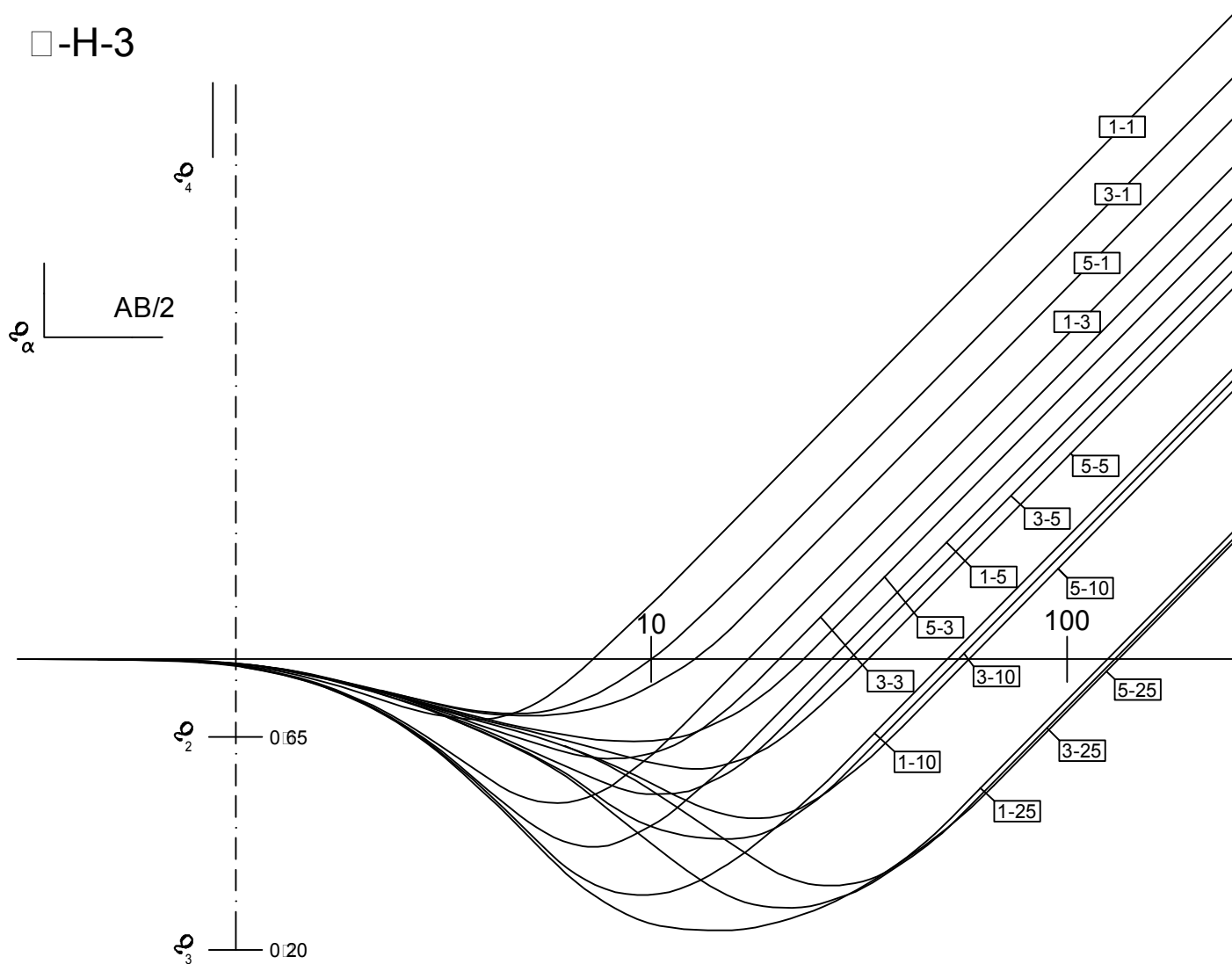
S 3-25

T 5-25

$E_1 = 1: \varphi_1 = 1$

1-0 65-0 20-∞

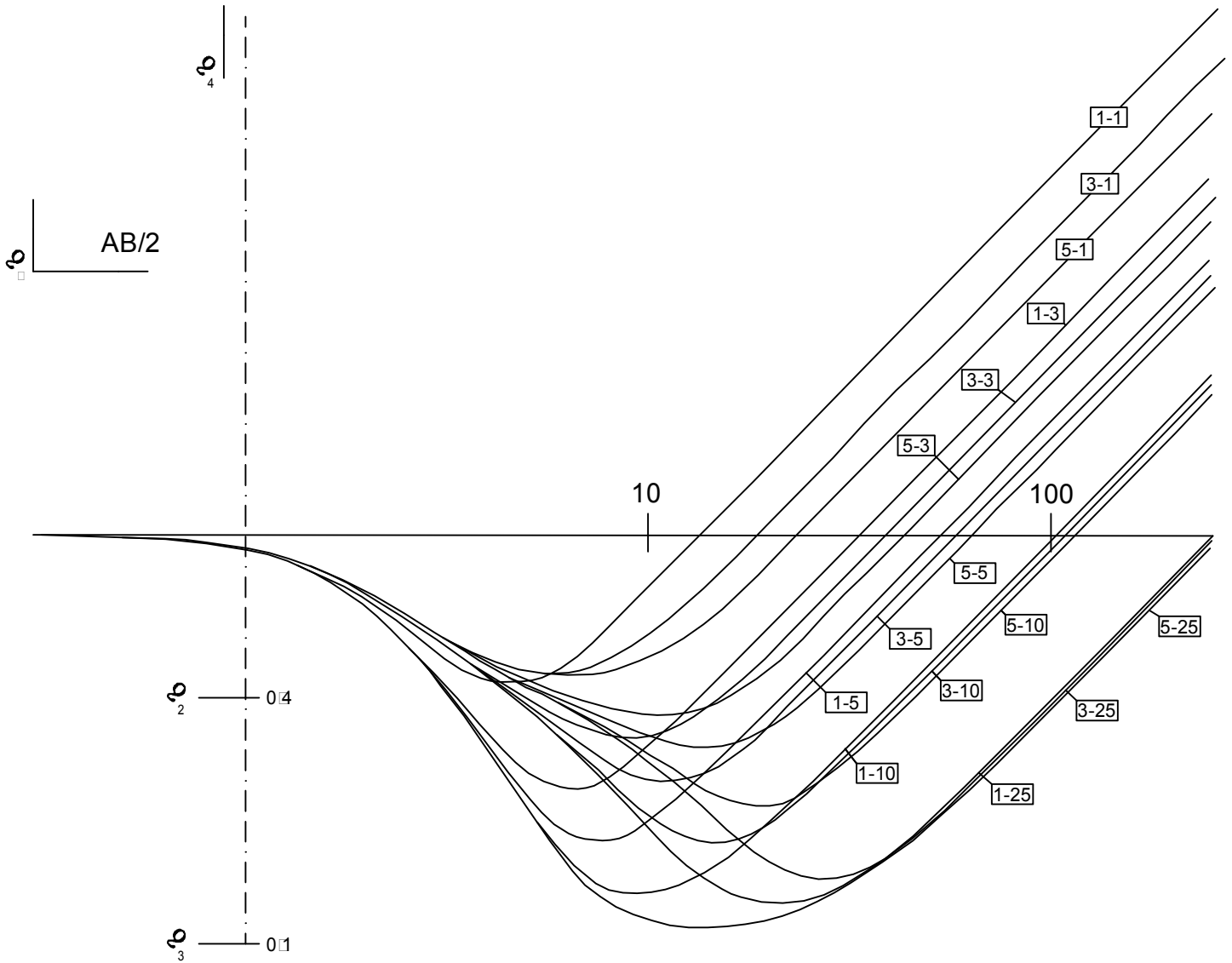
-H-3



$$E_1 = 1: \sigma_1 = 1: E_2 - E_3 = \boxed{-}$$

H-4

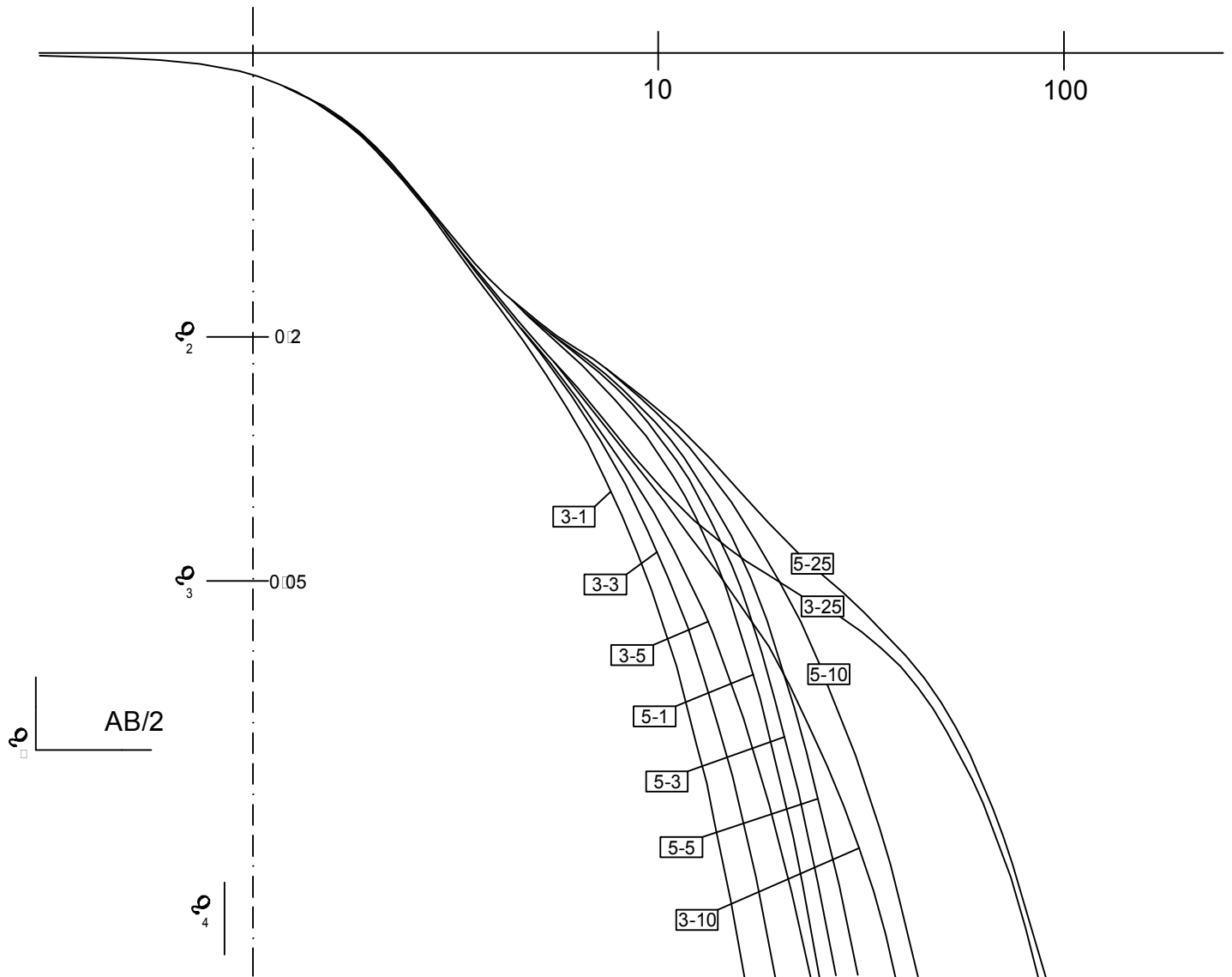
1-0 4-0 1-∞



$$E_1 = 1 \quad \nu_1 = 1 \quad E_2 = E_3 = 0$$

□ □ -1

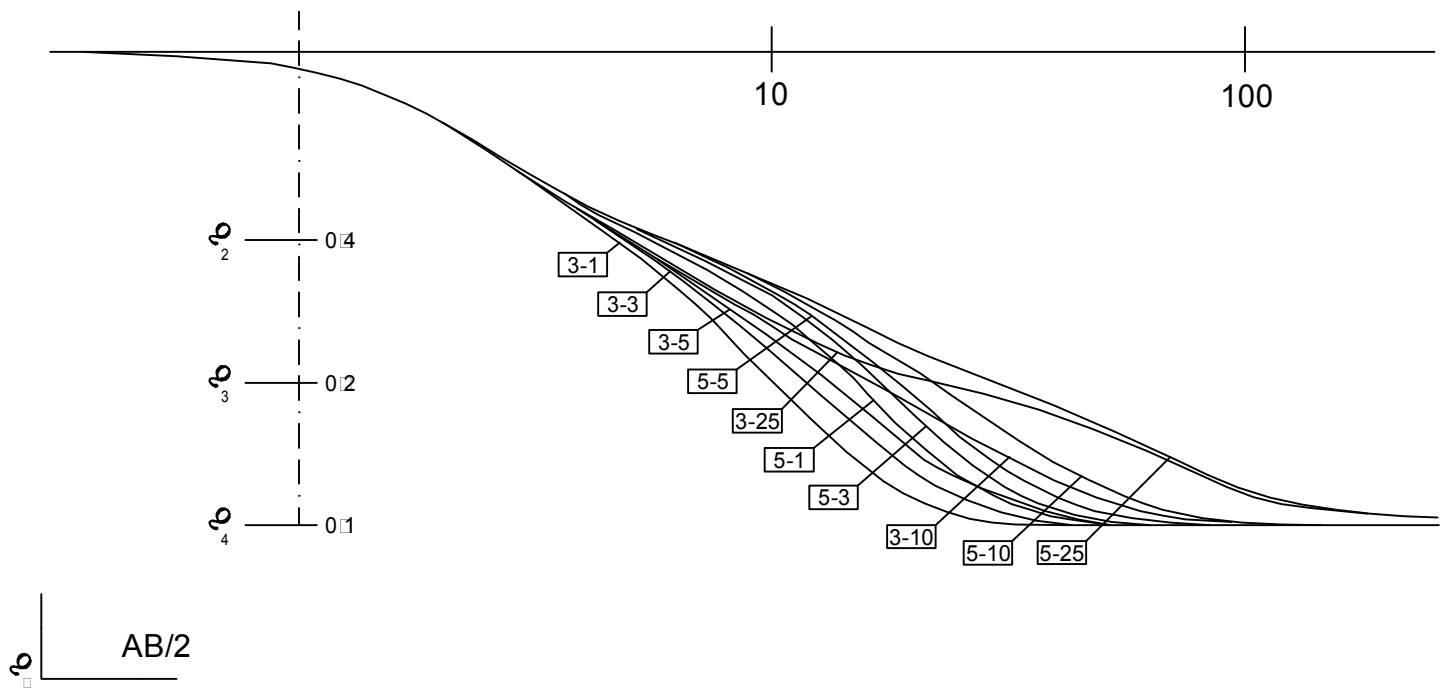
1-0 □ 2-0 □ 05-0



$$E_1 = 1 \quad \rho_1 = 1 \quad E_2 - E_3 = \square$$

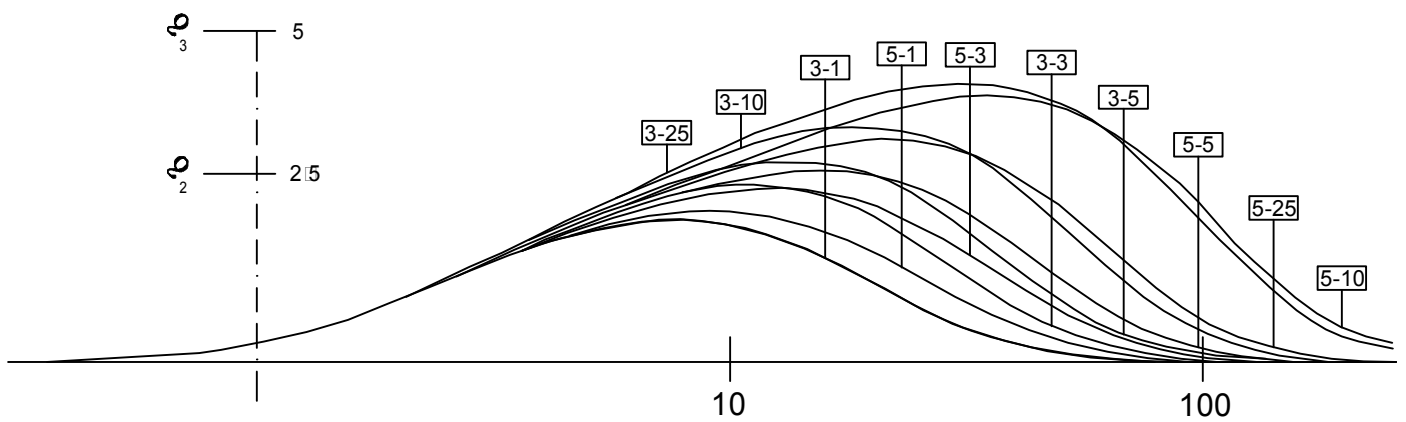
1-0 4-0 2-0 1

-2



1-2 5-5-1

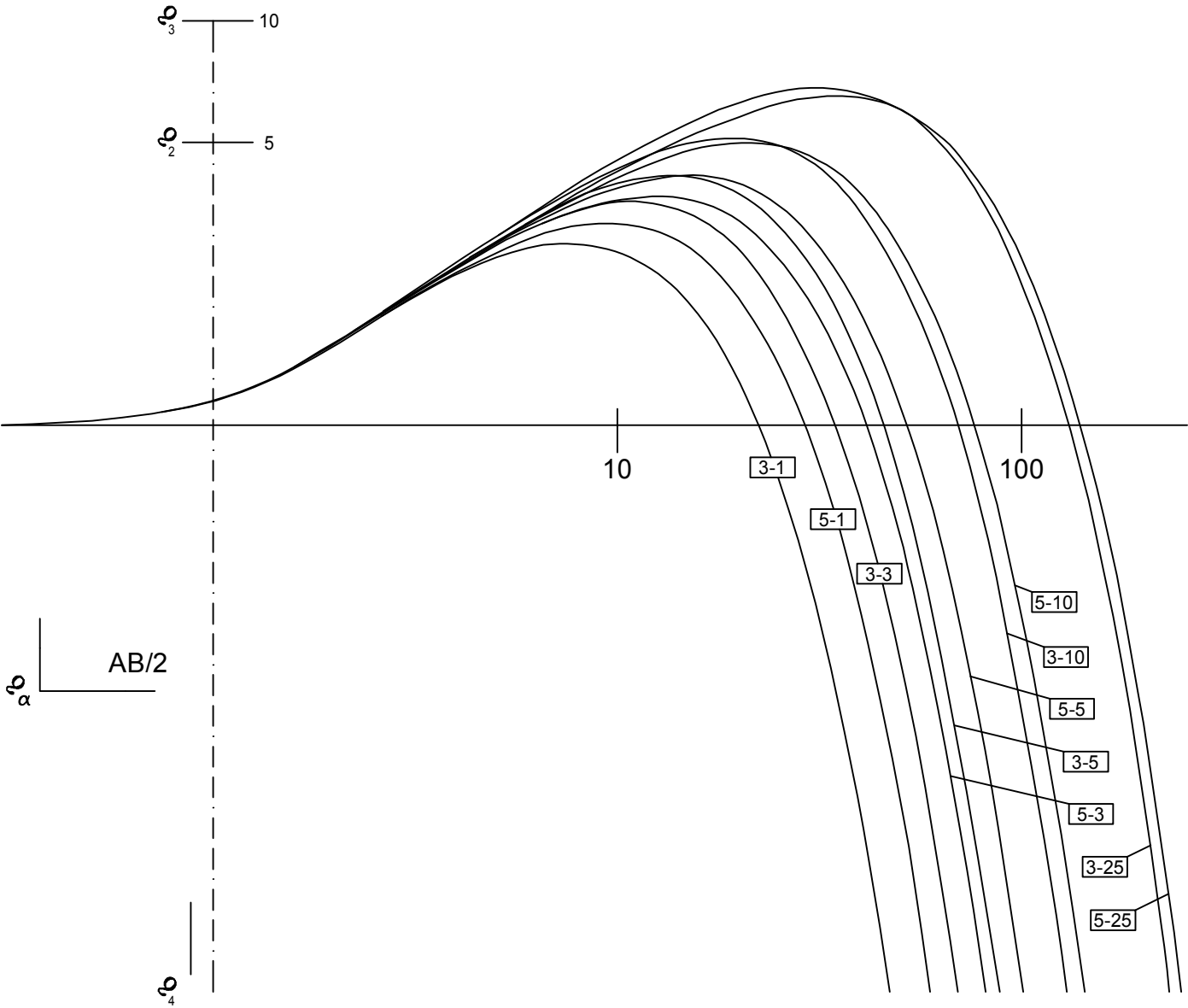
A-1



$$E_1 = 1 \quad \rho = 1 \quad E_2 - E_3 =$$

A□-2

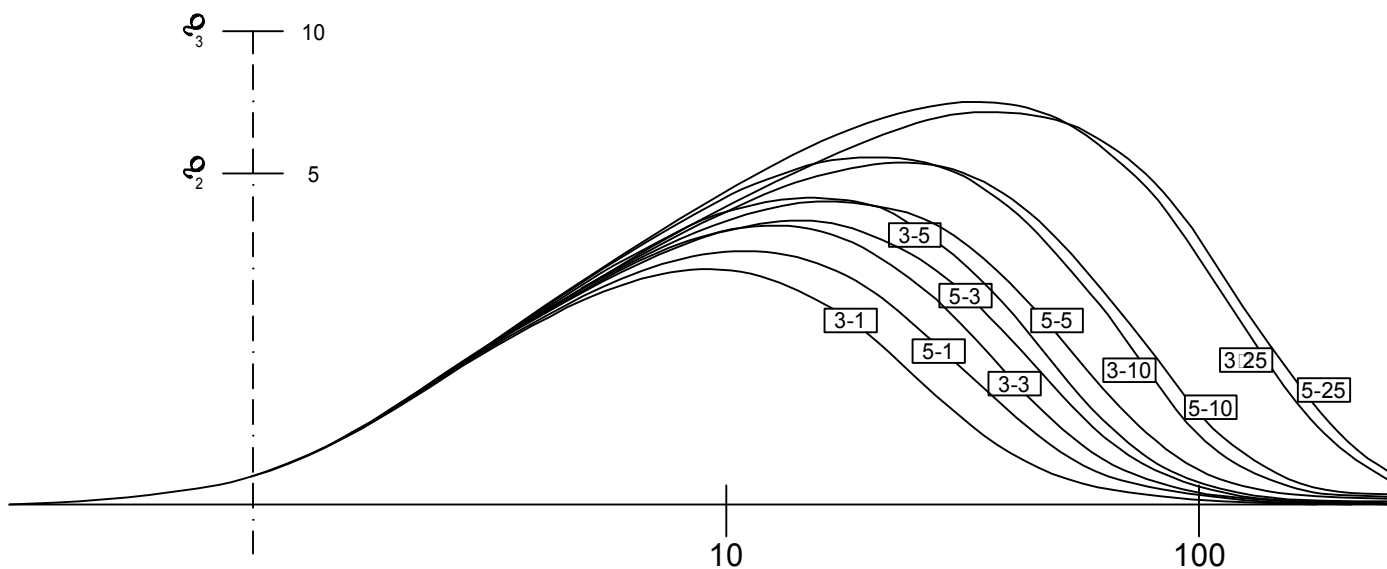
1-5-10-0



$E_1 = 1: \rho_1 = 1: E_2 - E_3 = \square$

A□-3

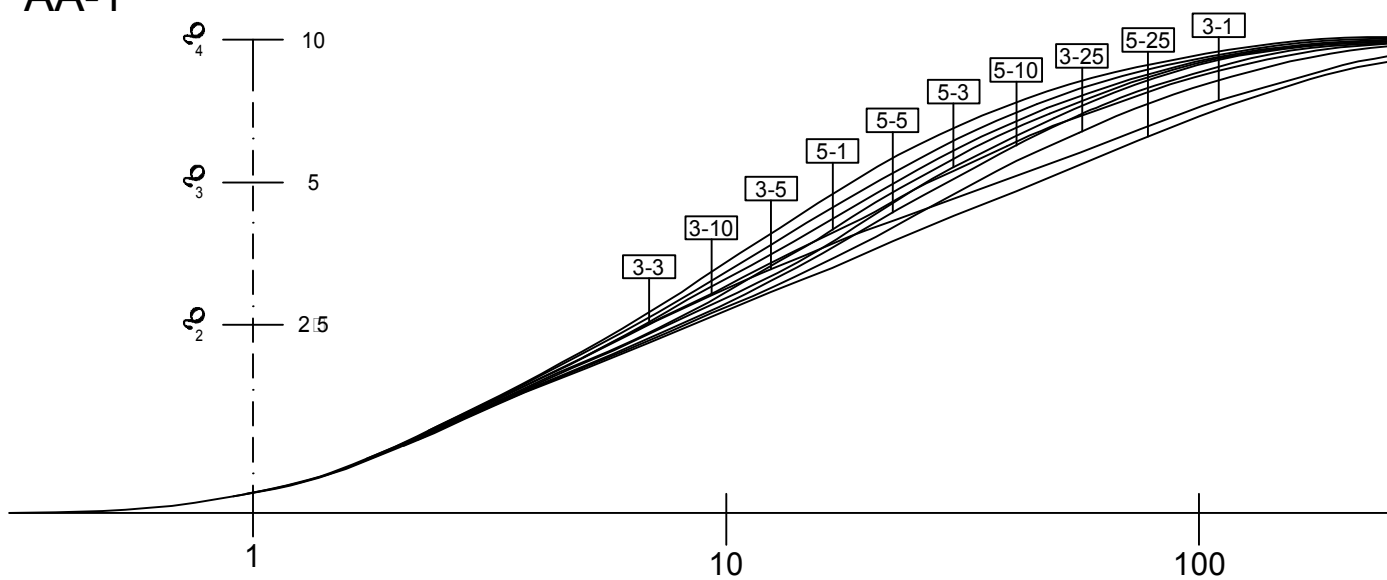
1-5-10-1



$\sigma$   
 $\alpha$  AB/2

1-2□5-5-10

AA-1

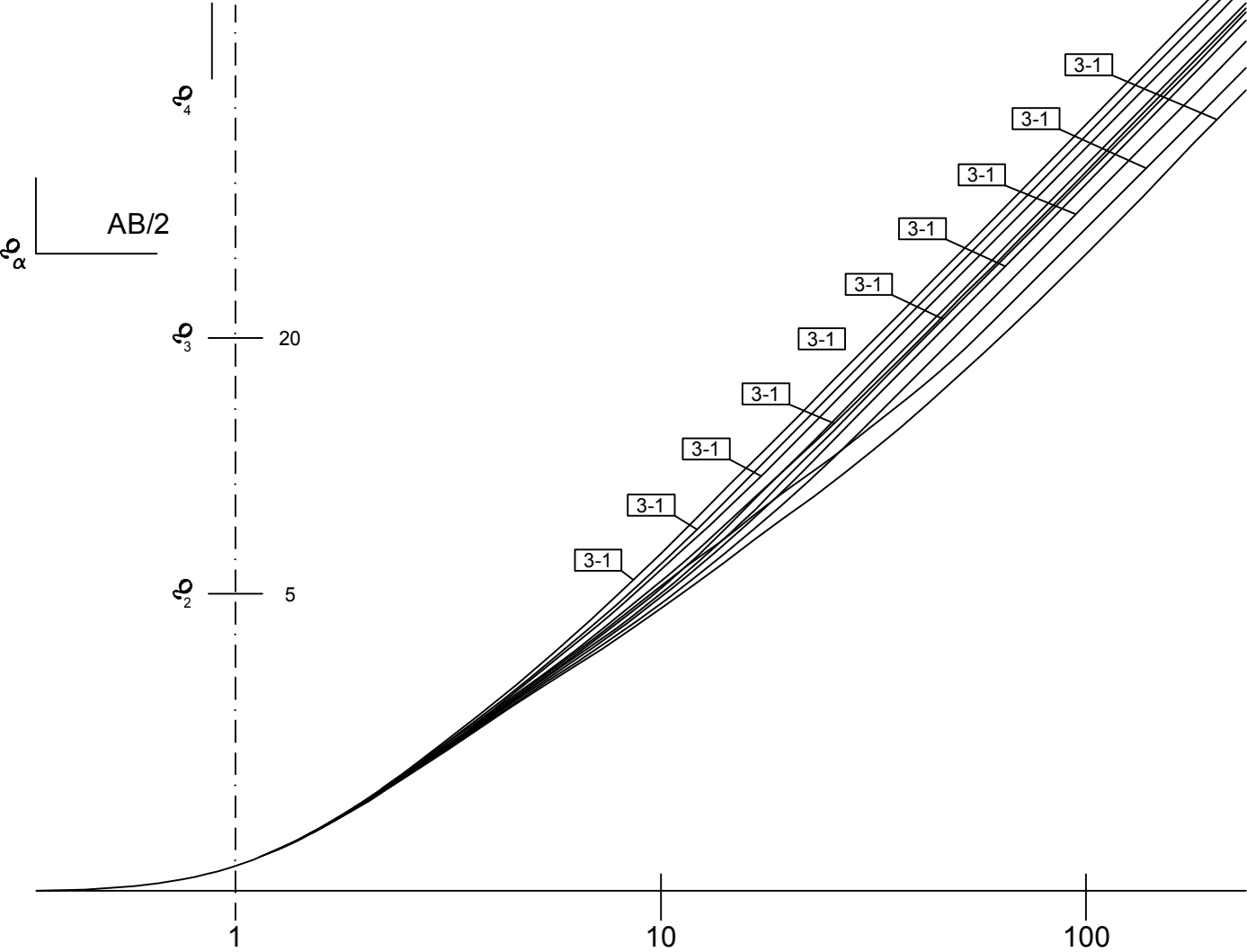


$$E_1 = 1: \sigma_1 = 1: E_2 - E_3 = \square$$



1-5-20- $\infty$

AA-2



$E_1 = 1; \nu_1 = 1; E_2 - E_3 = \boxed{-}$