ТИПОВЫЕ СТРОИТЕЛЬНЫЕ КОНСТРУКЦИИ, ИЗДЕЛИЯ И УЗЛЫ

# СЕРИЯ 1.020-1/87

## КОНСТРУКЦИИ КАРКАСА МЕЖВИДОВОГО ПРИМЕНЕНИЯ ДЛЯ МНОГОЭТАЖНЫХ ОБЩЕСТВЕННЫХ ЗДАНИЙ, ПРОИЗВОДСТВЕННЫХ И ВСПОМОГАТЕЛЬНЫХ ЗДАНИЙ ПРОМЫШЛЕННЫХ ПРЕДПРИЯТИЙ

ВЫПУСК 0-6

( ДОПОЛНЕНИЕ 1 )

ГРАФИКИ НЕСУЩИХ СПОСОБНОСТЕЙ КОЛОНН ИЗ БЕТОНА КЛАССА В30 ДЛЯ ЗДАНИЙ С ВЫСОТАМИ ЭТАЖЕЙ 4,8; 6,0 И 7,2 М

25764-02

ТИПОВЫЕ СТРОИТЕЛЬНЫЕ КОНСТРУКЦИИ, ИЗДЕЛИЯ И УЗЛЫ

# СЕРИЯ 1.020-1/87

## КОНСТРУКЦИИ КАРКАСА МЕЖВИДОВОГО ПРИМЕНЕНИЯ ДЛЯ МНОГОЭТАЖНЫХ ОБЩЕСТВЕННЫХ ЗДАНИЙ, ПРОИЗВОДСТВЕННЫХ И ВСПОМОГАТЕЛЬНЫХ ЗДАНИЙ ПРОМЫШЛЕННЫХ ПРЕДПРИЯТИЙ

**ВЫПУСК 0-6**

**( ДОПОЛНЕНИЕ 1 )**

**ГРАФИКИ НЕСУЩИХ СПОСОБНОСТЕЙ КОЛОНН ИЗ БЕТОНА КЛАССА В30 ДЛЯ ЗДАНИЙ С ВЫСОТАМИ ЭТАЖЕЙ 4.8; 6.0 И 7.2 М**


РАЗРАБОТАНЫ

ЦНИИП РЕКОНСТРУКЦИИ ГОРОДОВ

ДИРЕКТОР ИНСТИТУТА В.ЛЕПСКИЙ

НАЧАЛЬНИК ОТДЕЛА Б.ВОЛЫНСКИЙ

ЦНИИПРОМЗДАНИЙ

ГЛ.ИНЖЕНЕР ИНСТИТУТА В.ГРАНЕВ

НАЧАЛЬНИК ОТДЕЛА З.КОДЫШ



УТВЕРЖДЕНЫ

ГОССТРОЕМ СССР

ПРОТОКОЛ ОТ 12.12.90 № АЧ-15

Введены в действие с 25.12.91, приказ ЦНИИП реконструкции городов от 04.12.91 N 22

| ОБОЗНАЧЕНИЕ ДОКУМЕНТА | НАИМЕНОВАНИЕ | СТР. |
|---|---|---|
| 1.020-1/87. 0-6(доп. 1)-1ПЗ | Пояснительная записка | 2 |
| 1.020-1/87. 0-6(доп. 1)-2ПЗ | Графики несущей способности | 3 |

| | | | |
|---|---|---|---|
| Нач.отд. | Кодыш | | |
| ГИП | Марченко | | |
| Провер. | Горшкова | | |
| Разраб. | Котова | | |

1.020-1/87. 0-6(дополнение 1)

СОДЕРЖАНИЕ

| Стадия | Лист | Листов |
|---|---|---|
| Р | | 1 |

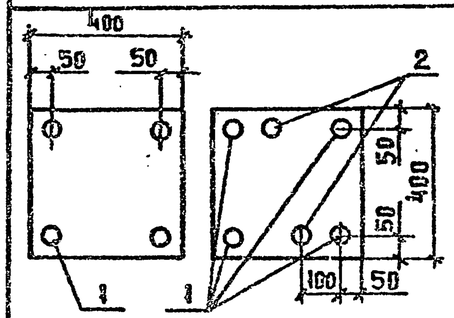
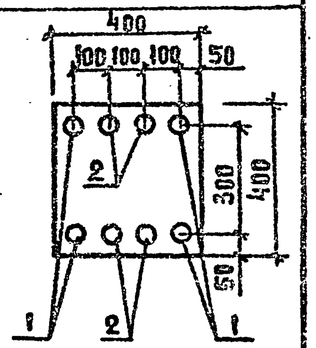
ЦНИИПРОМЗДАНИЙ

Инв. № подл. | Подп. и дата | Взам. инв. №



Настоящий выпуск является дополнением выпуска 0-6 серии 1.020-1/87 и содержит графики несущей способности колонн из бетона класса В30 по вып. 2-18...21.

Графики несущей способности предусмотрены для сечений колонн приведенных в таблице.

| Сечение колонны | Класс бетона | Армиров. Ф, А-III поз.1 | Армиров. Ф, А-III поз.2 | Высоты этажей, м | № листов документа 2ПЗ |
|---|---|---|---|---|---|
|  | В30 | 40 | — | 3,5; 4,2; 4,8 | 1...4 |
| | | 40 | 36 | 3,6; 4,8; 6,0 | 5...16 |
| | | 36 | 36 | | 17...28 |
| | | 40 | 40 | | 29...40 |
|  | | 40 | 40 | 3,6; 4,2; 4,8 | 41...46 |

Графики несущей способности других сечений колонн, рабочие чертежи которых представлены в вып. 2-18...2-21, содержатся в вып. 0-6 серии 1.020-1/87 и вып. 0-2 серии 1.020.1-4, включая примеры использования графиков

| | | | |
|---|---|---|---|
| Нач.отд. | Кодыш | | |
| Н.контр. | Котова | | |
| ГИП | Марченко | | |
| Провер. | Горшкова | | |
| Разраб. | Котова | | |

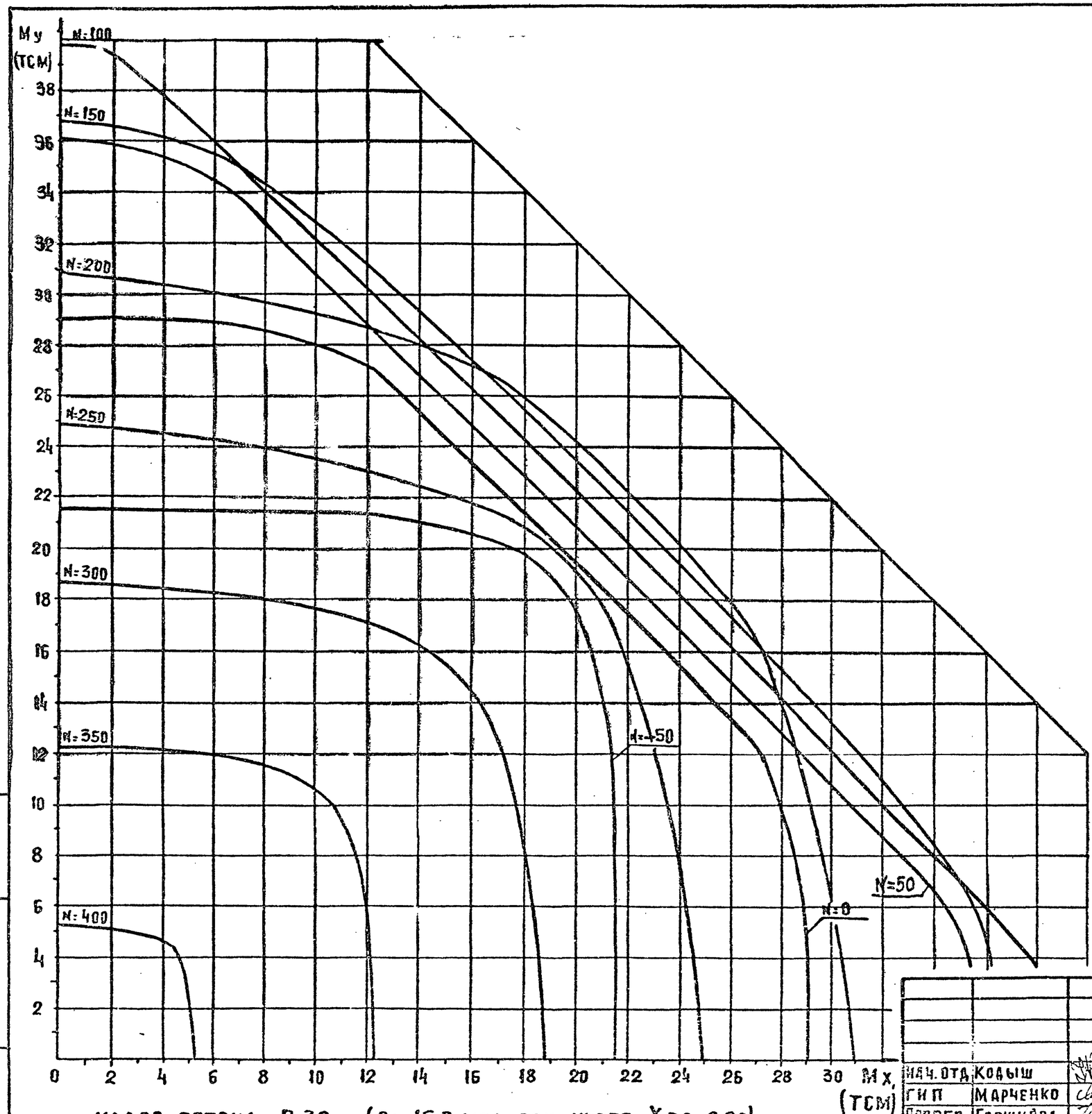
1.020-1/87. 0-6(дополнение 1)-1ПЗ

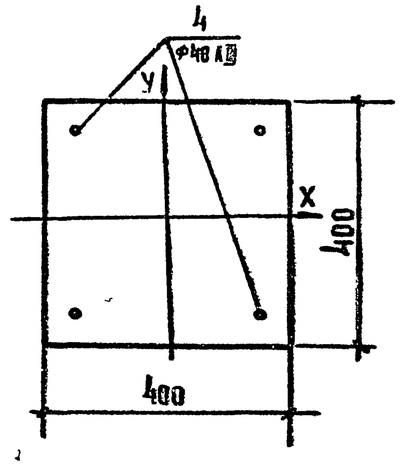
Пояснительная записка

| Стадия | Лист | Листов |
|---|---|---|
| Р | 1 | 1 |

ЦНИИПРОМЗДАНИЙ

Инв. № подл. | Подп. и дата | Взам. инв. №




КЛАСС БЕТОНА В30 ($R_в$=15,3 МПА ПРИ УЧЕТЕ $\gamma_{b2}$=0,90)

| | | |
|---|---|---|
| НАЧ.ОТД. | Кодыш | |
| ГИП | Марченко | |
| ПРОВЕР. | Горшкова | |
| РАЗРАБ. | Котова | |

1.020-1/87 0-6(ДОПОЛНЕНИЕ 1) 2П3

ГРАФИКИ НЕСУЩЕЙ СПОСОБНОСТИ

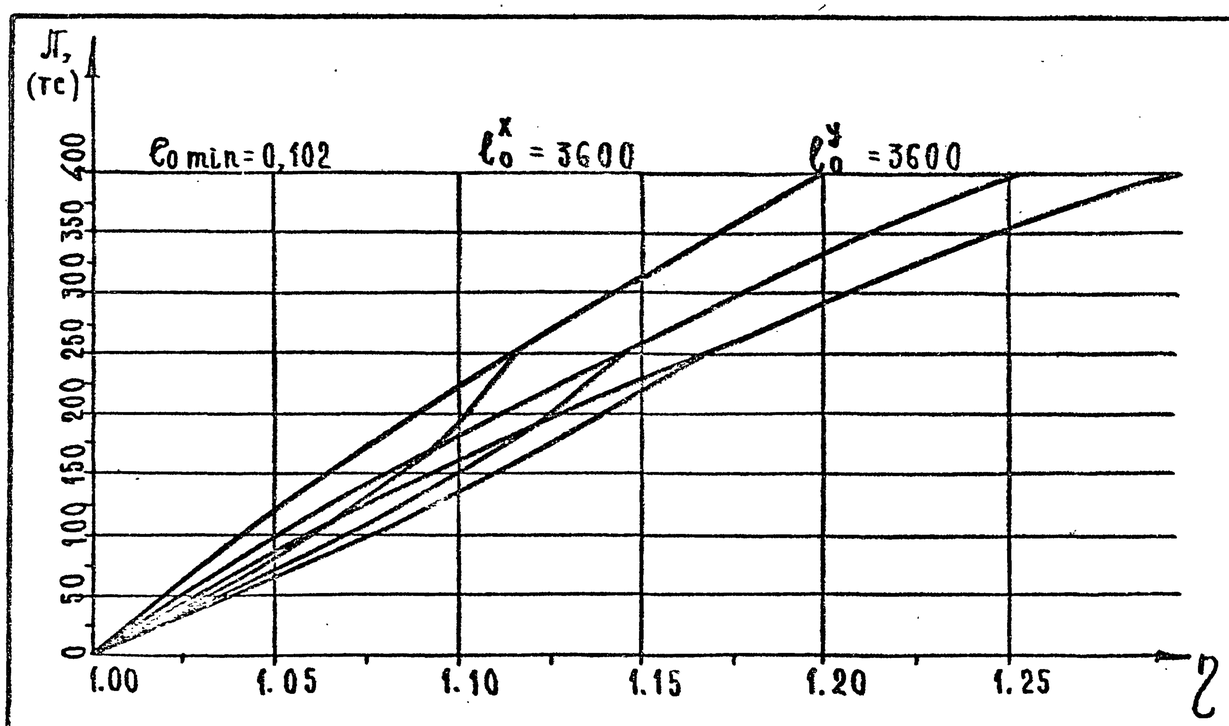
| СТАДИЯ | ЛИСТ | ЛИСТОВ |
|---|---|---|
| Р | 4 | 46 |

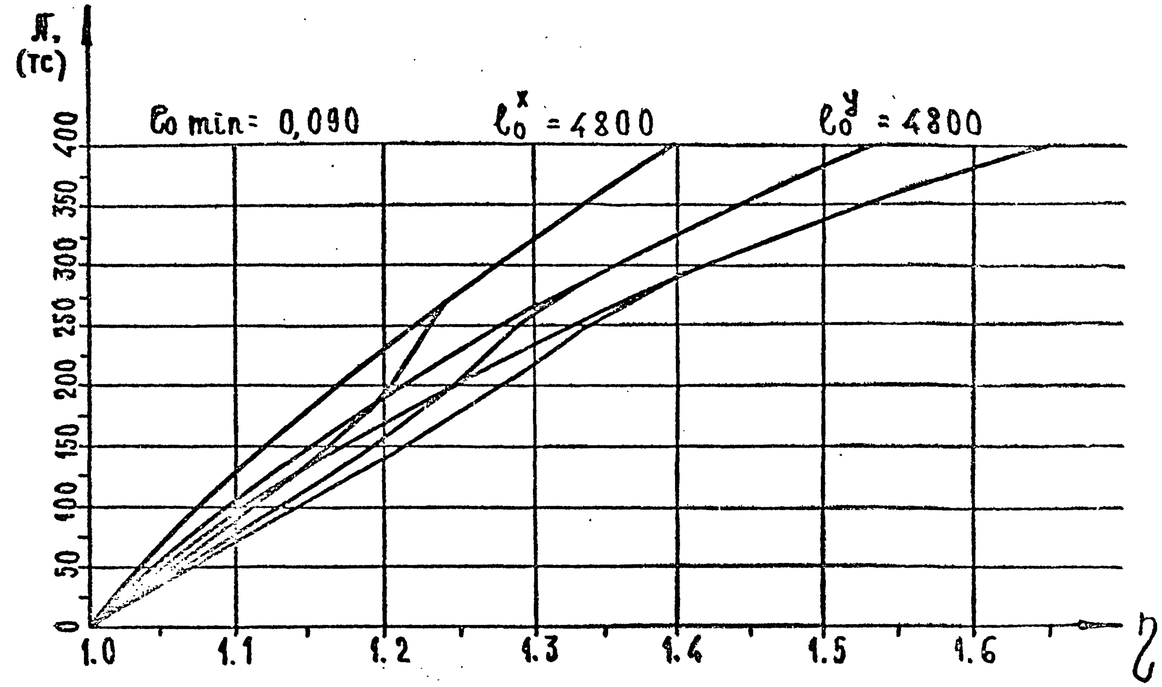
ЦНИИПРОМЗДАНИЙ

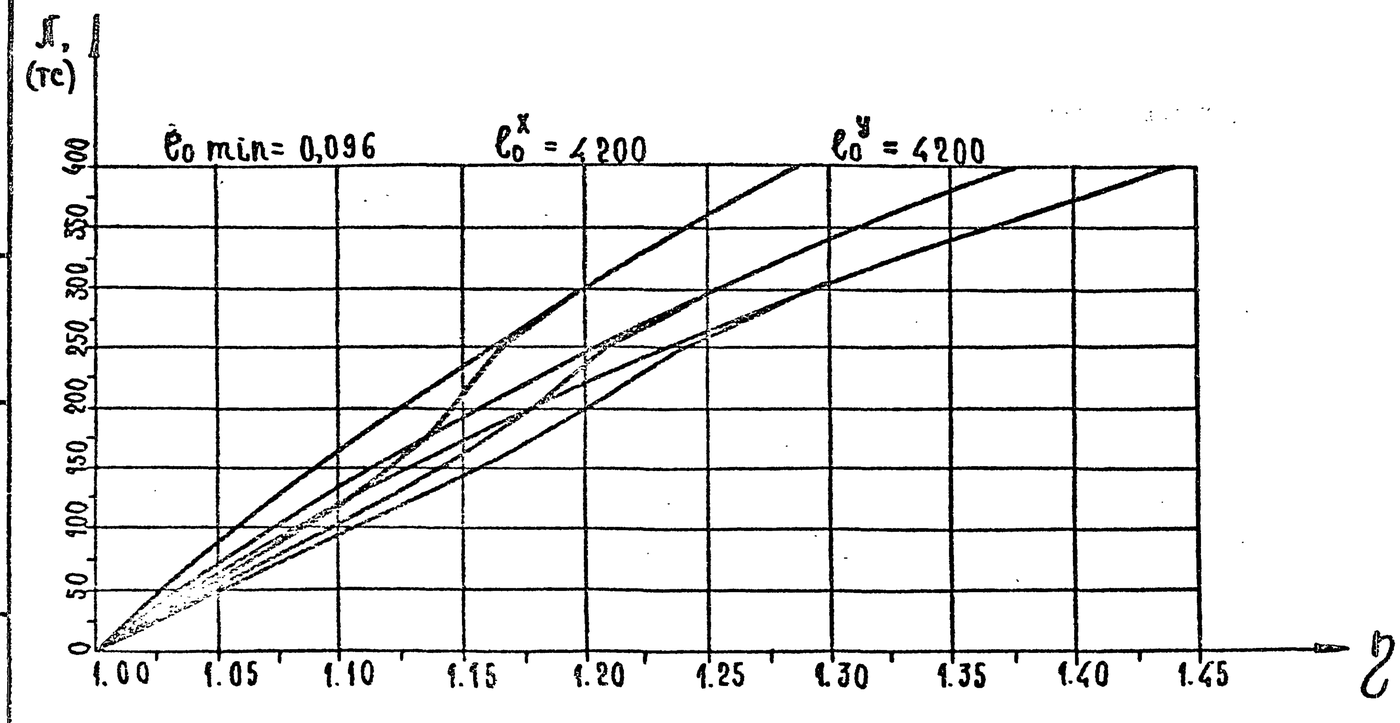
ИНВ. № ПОДЛ. | ПОДПИСЬ И ДАТА | ВЗАМ. ИНВ. №

25764-02 4

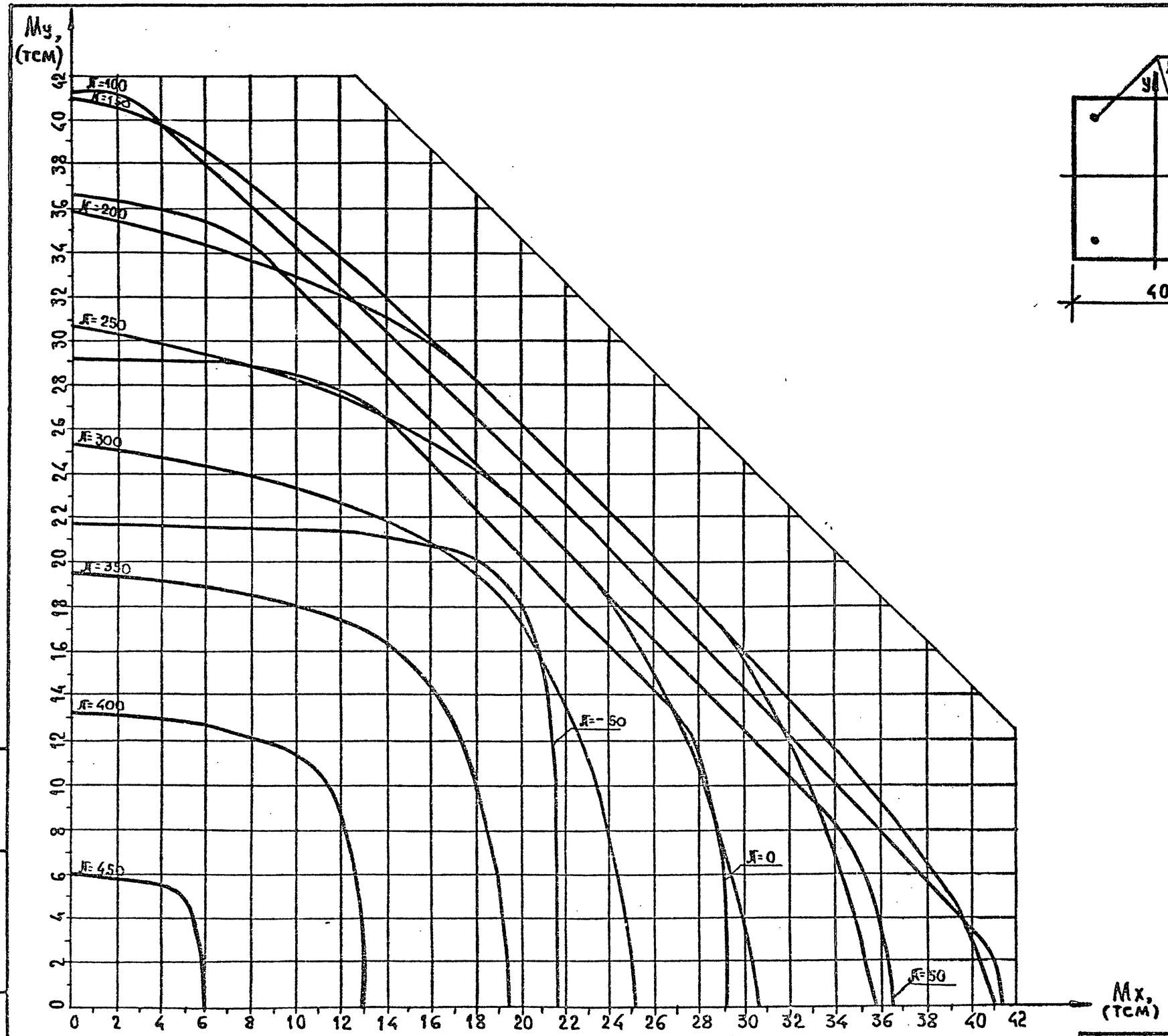
ФОРМАТ А2

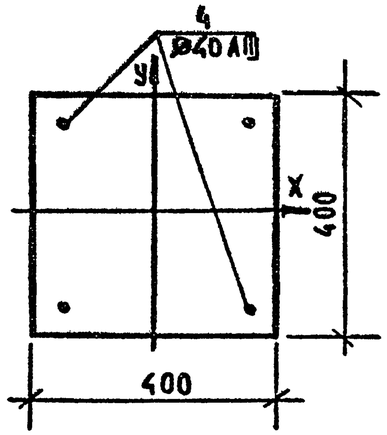



Инв. № подл. | Подпись и дата | Взам. инв. №




Класс бетона В30 ($R_в$ = 18,7 МПа при учете $\gamma_{в2}$ = 1.10)

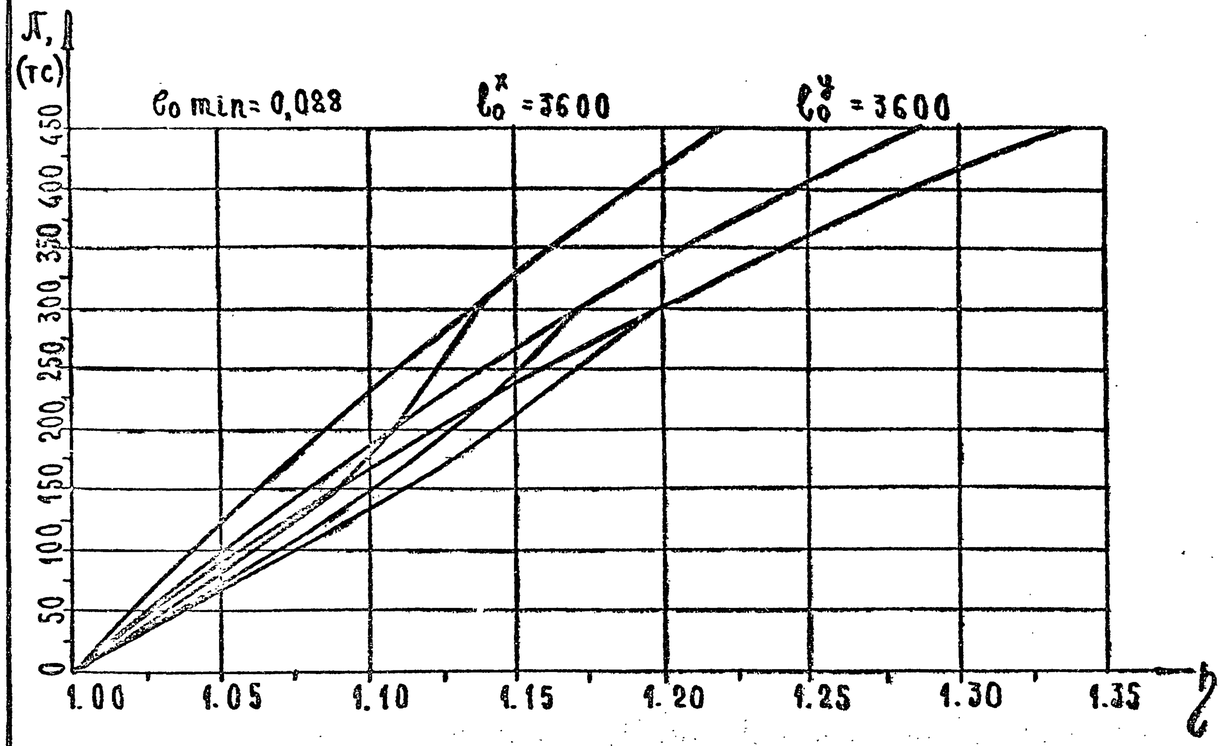
| Инв.№ подл. | Подпись и дата | Взам. инв.№ |
|---|---|---|
| | | |

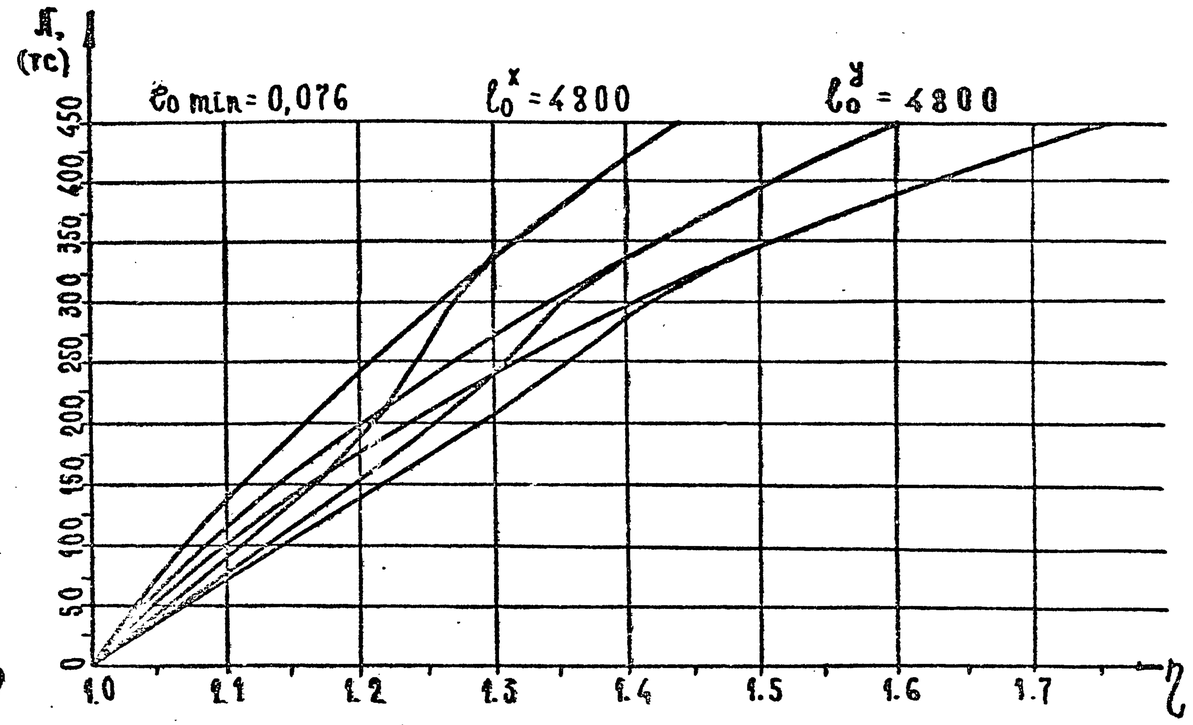
1.020-1/87.0-6(дополнение 1)-2ПЗ

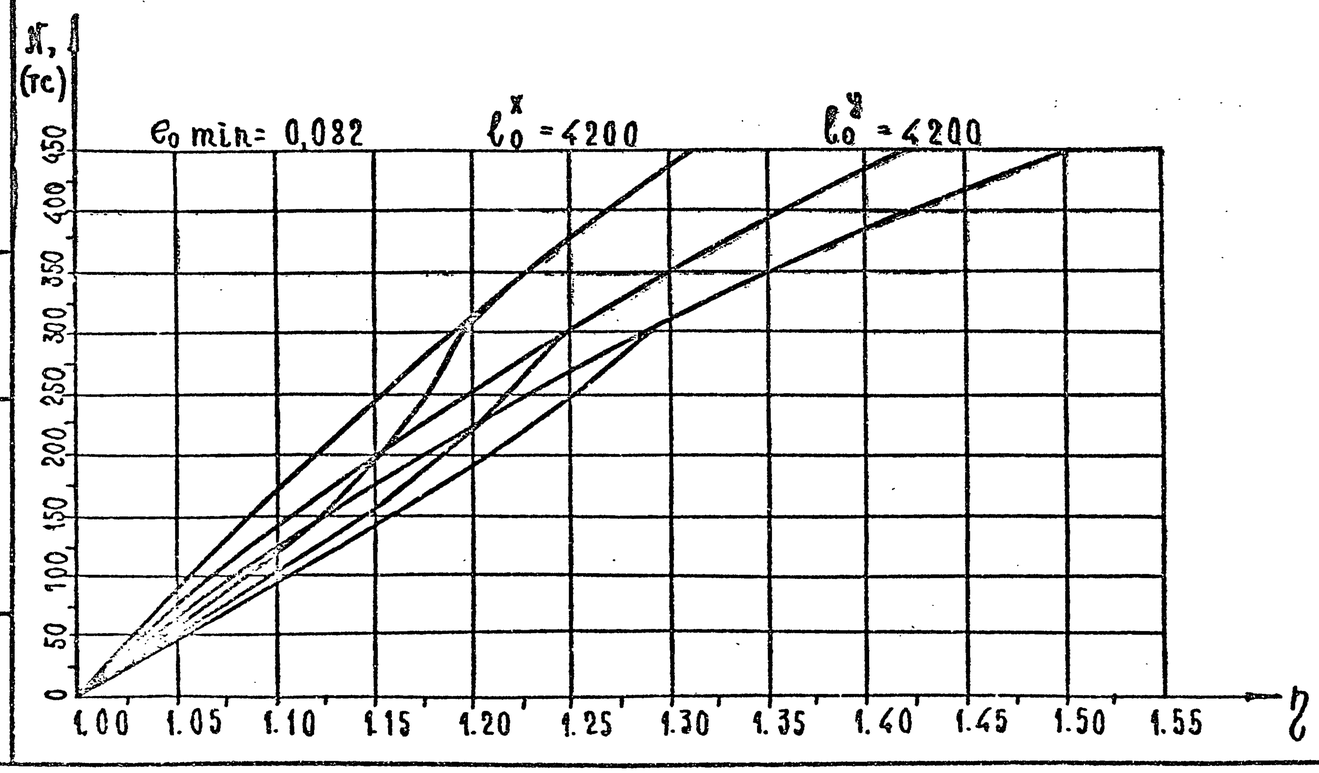
Лист 3

25764-02 6

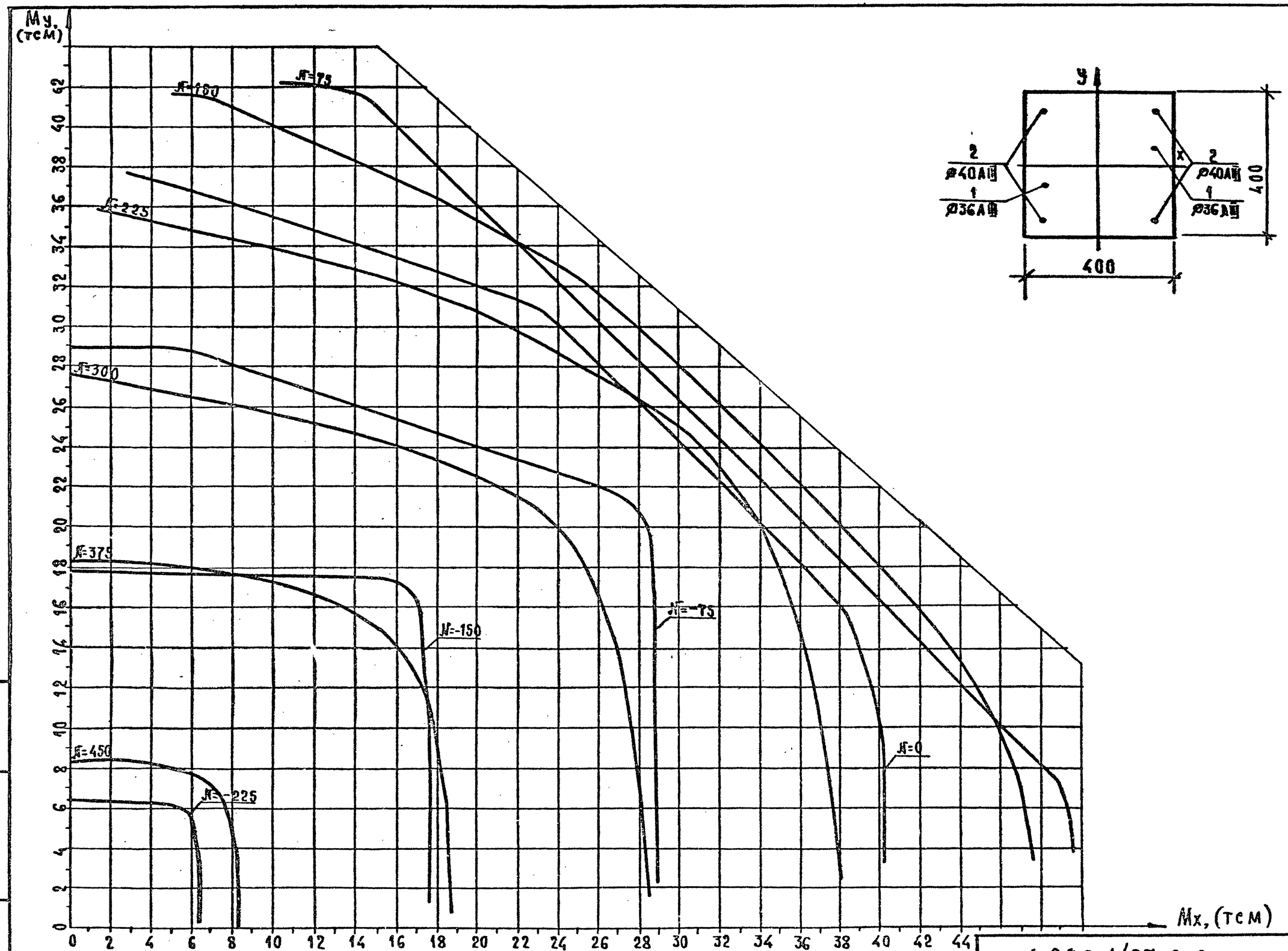
Формат А3




Инв. № подл. | Подпись и дата | Взам. инв. №



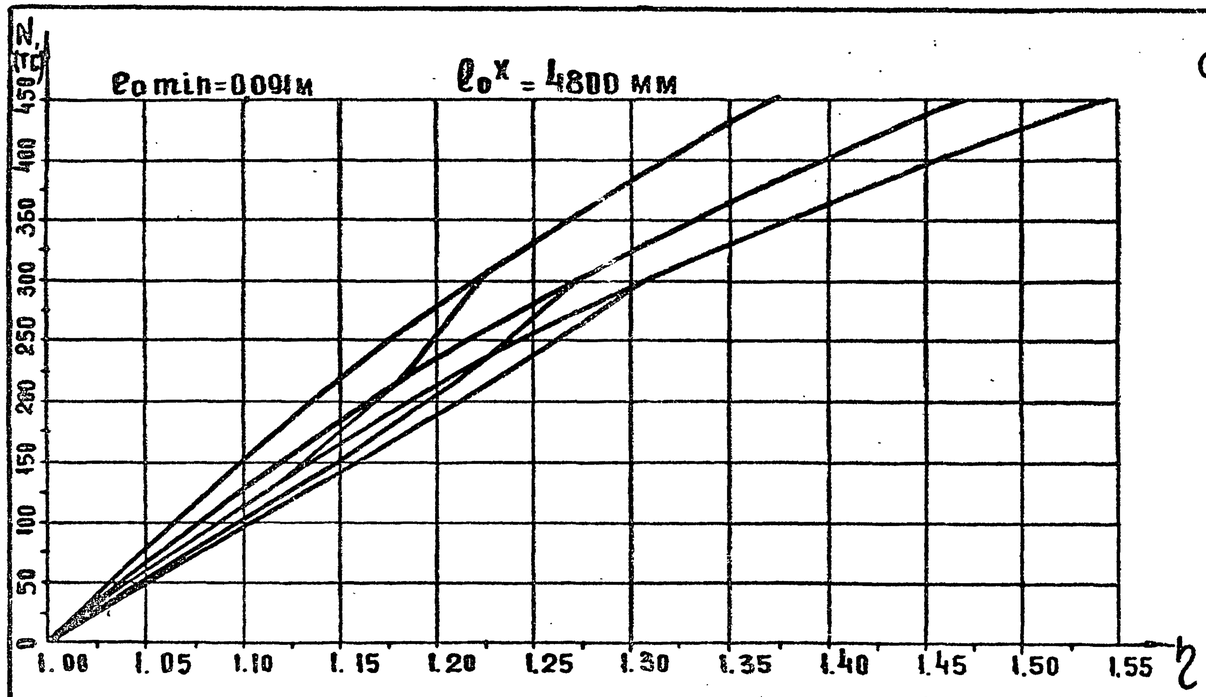

Класс бетона В30 ($R_B$=15,3 мпа при учете $\gamma_{B2}$= 0,90)

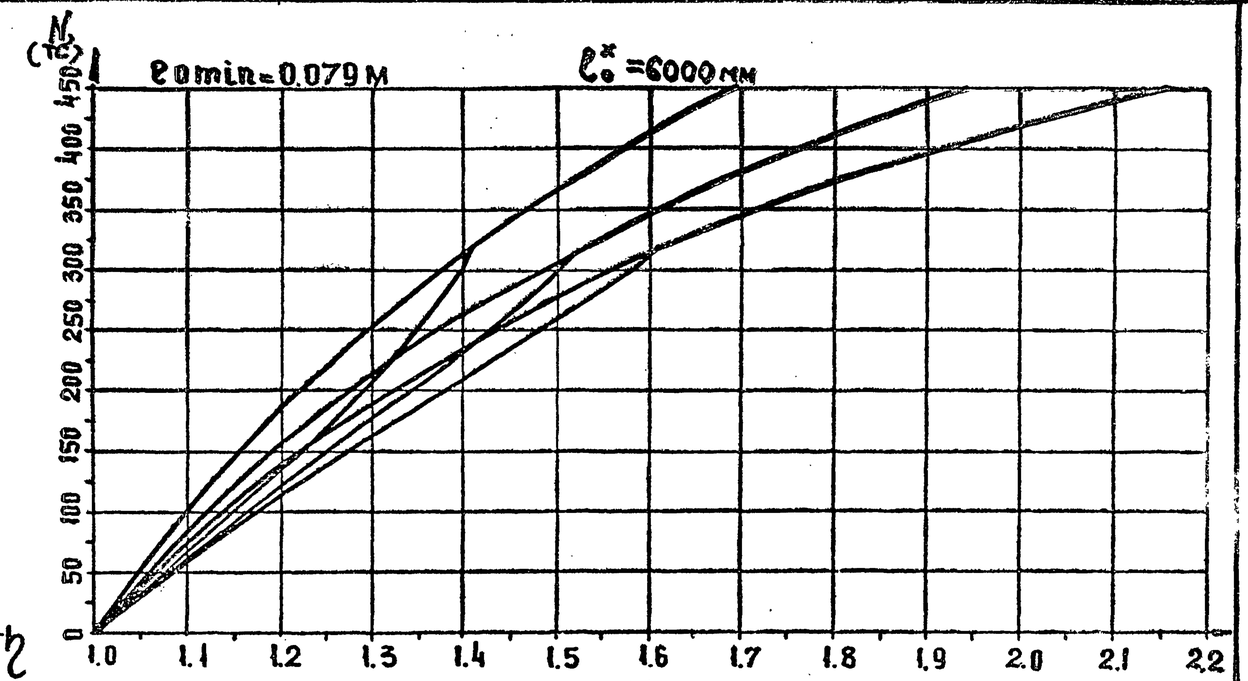
| | |
|---|---|
| 1.020-1/87. 0-6(дополнение1)-2ПЗ | Лист 5 |

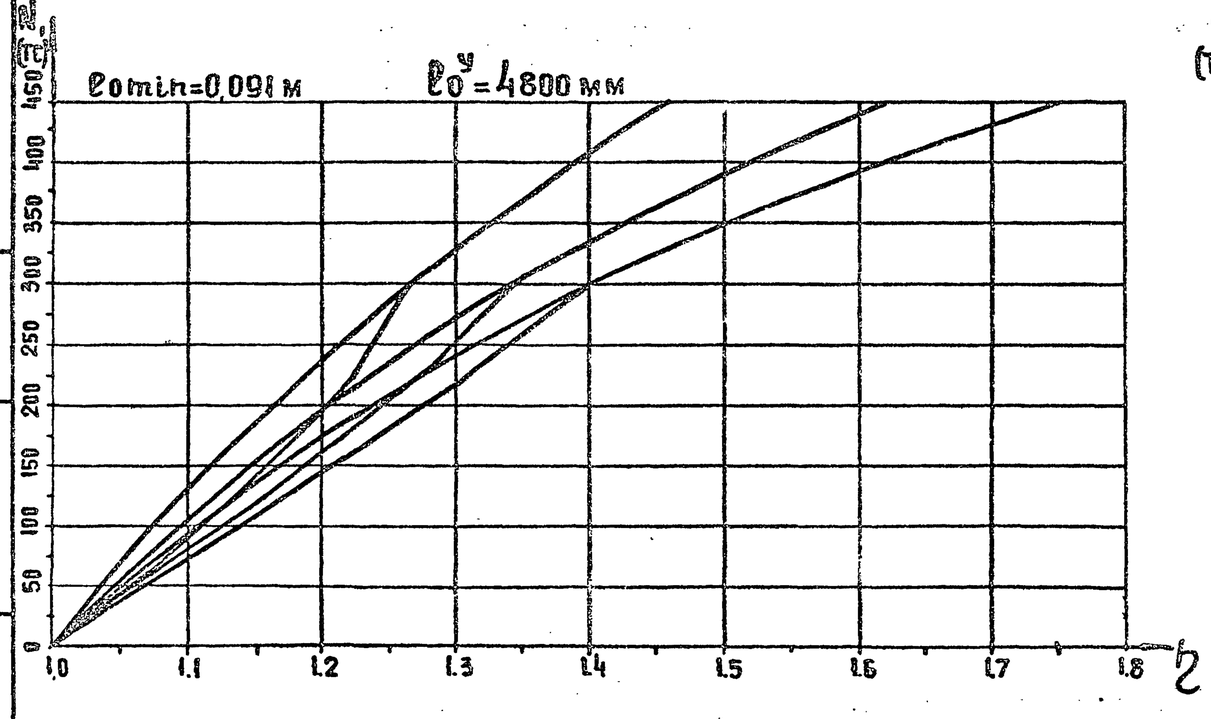
Инв. № подл. | Подпись и дата | Взам. инв. №

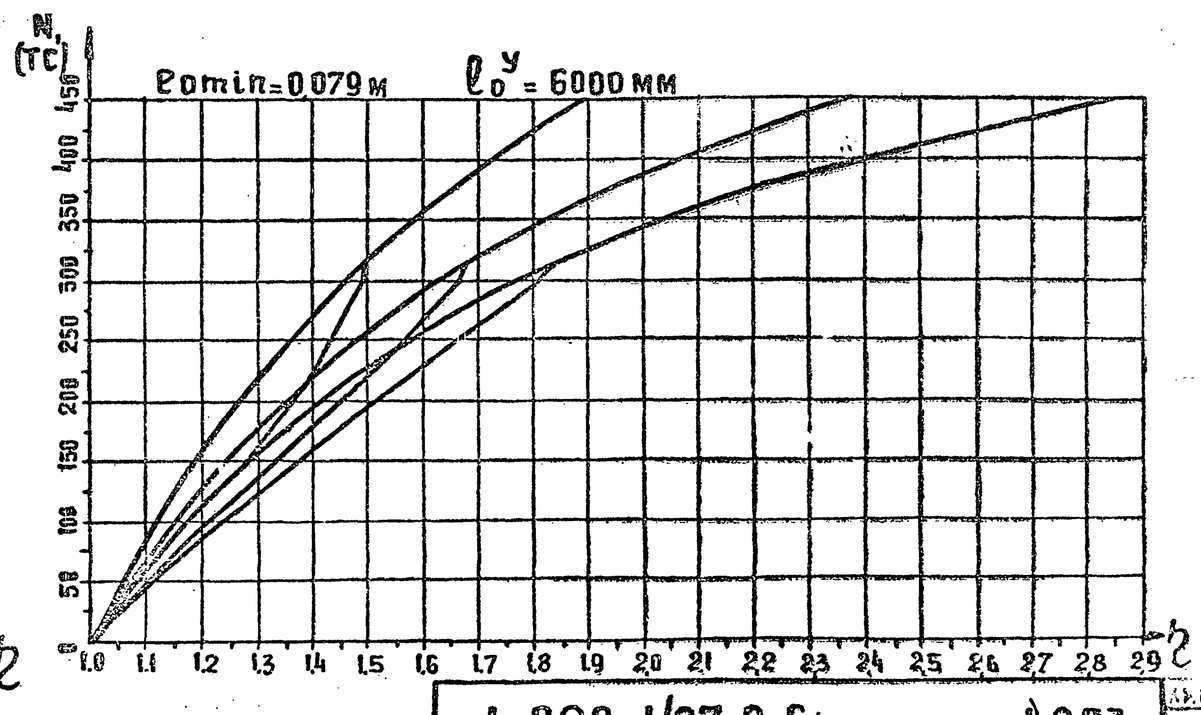


ФОРМАТ А3

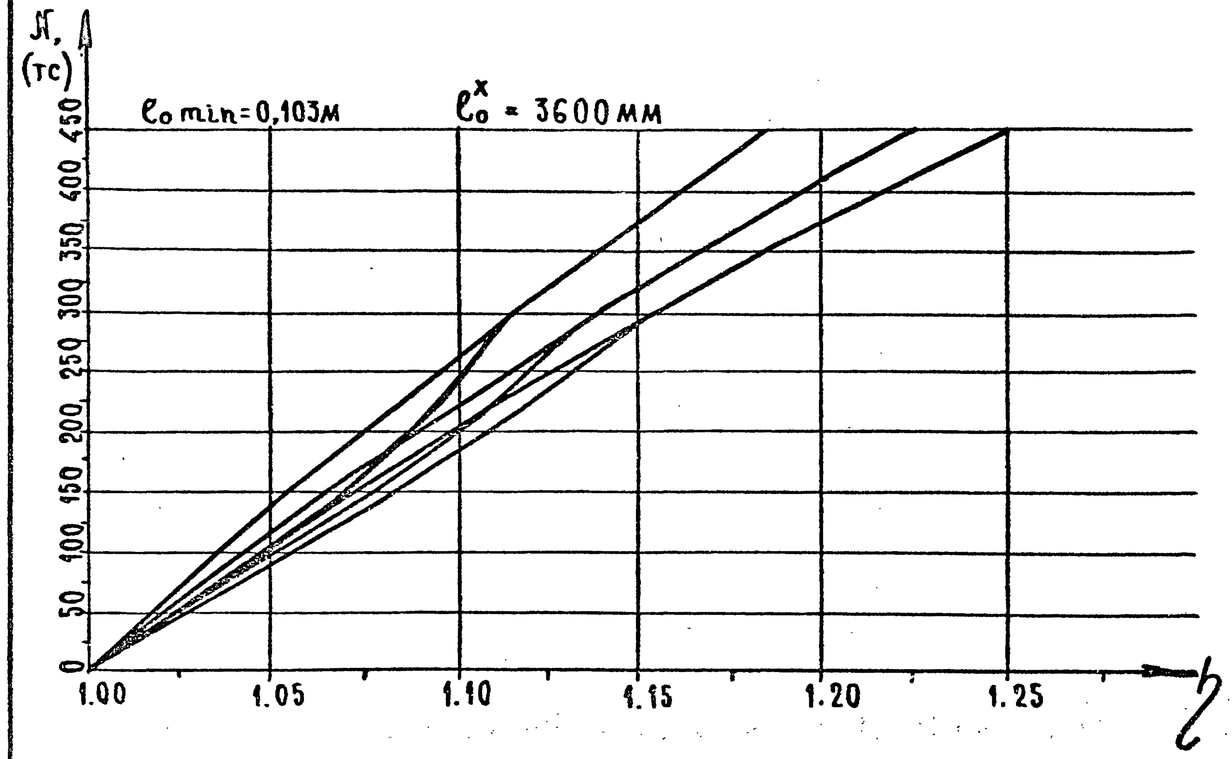


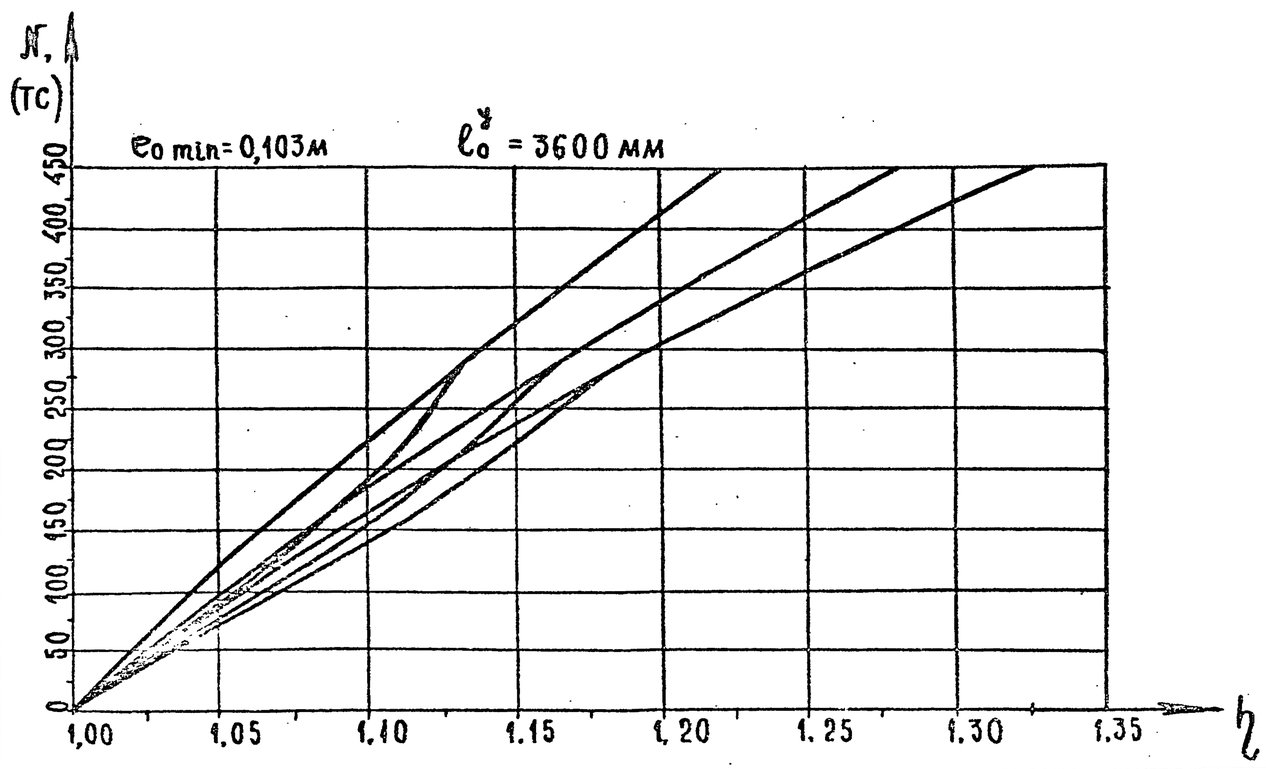




Инв. № подл. | Подп. и дата | Взам. инв. №

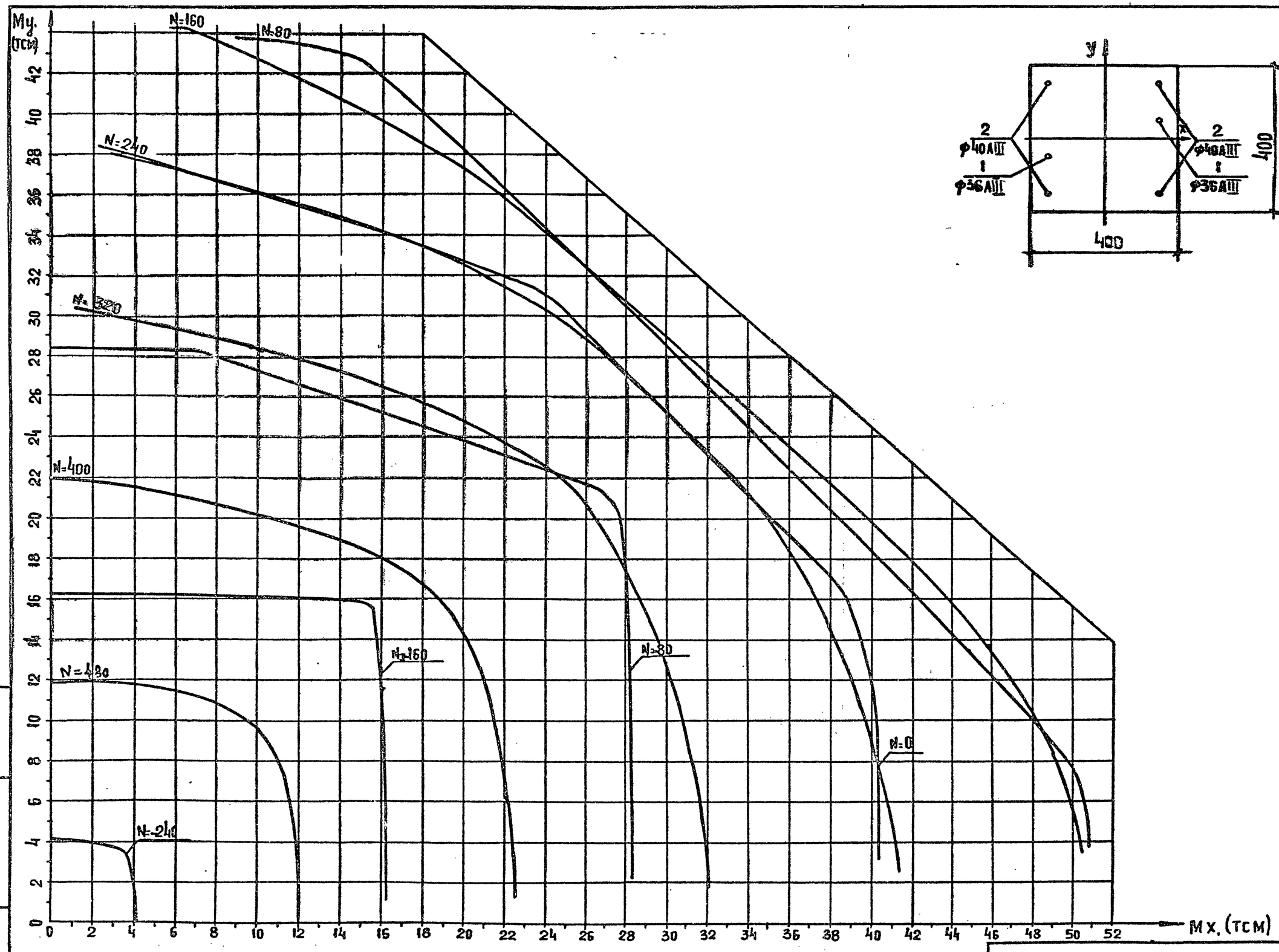



Инв.№ подл. | Подпись и дата | Взам. инв.№



25764-02 10
ФОРМАТ А3



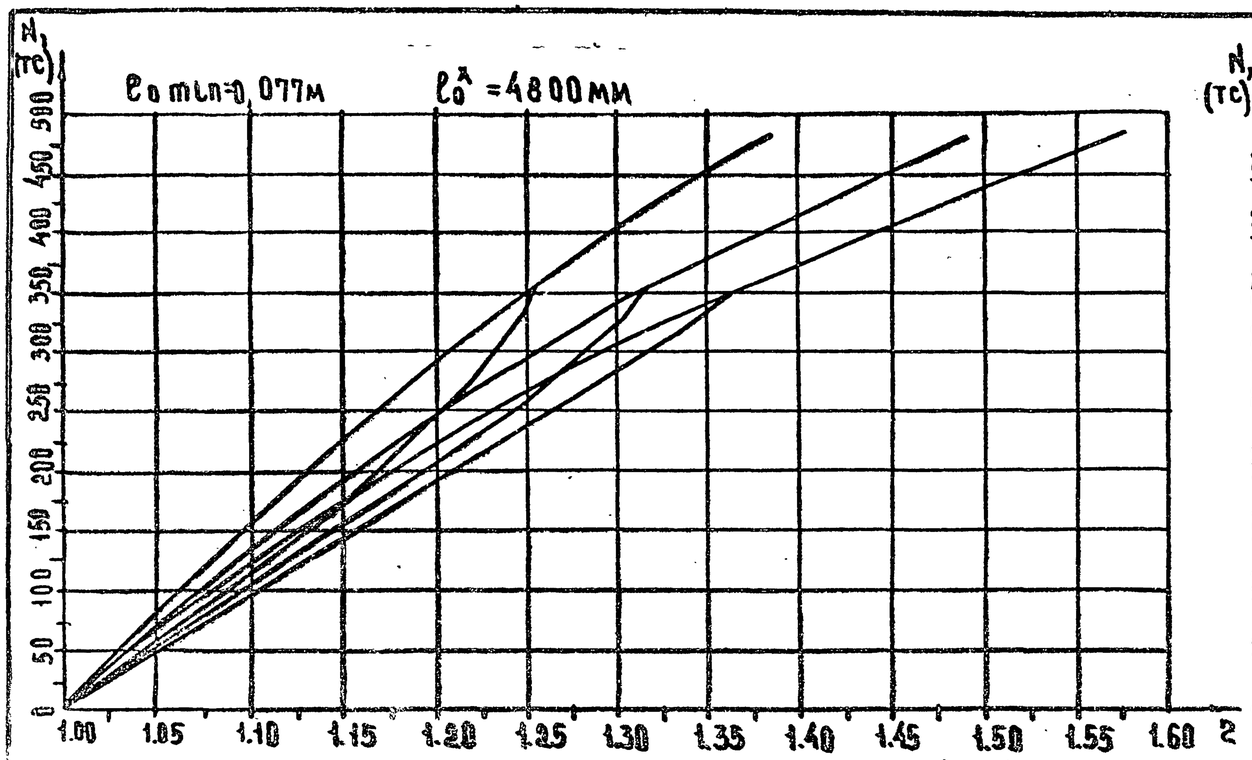


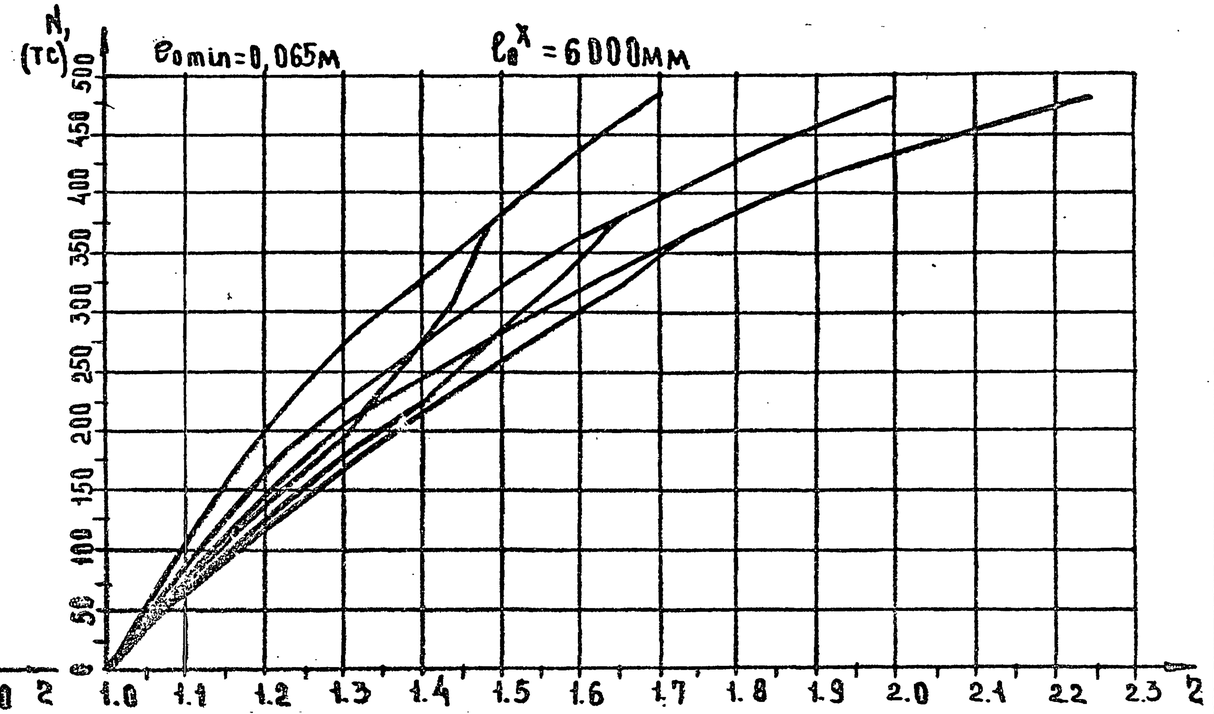


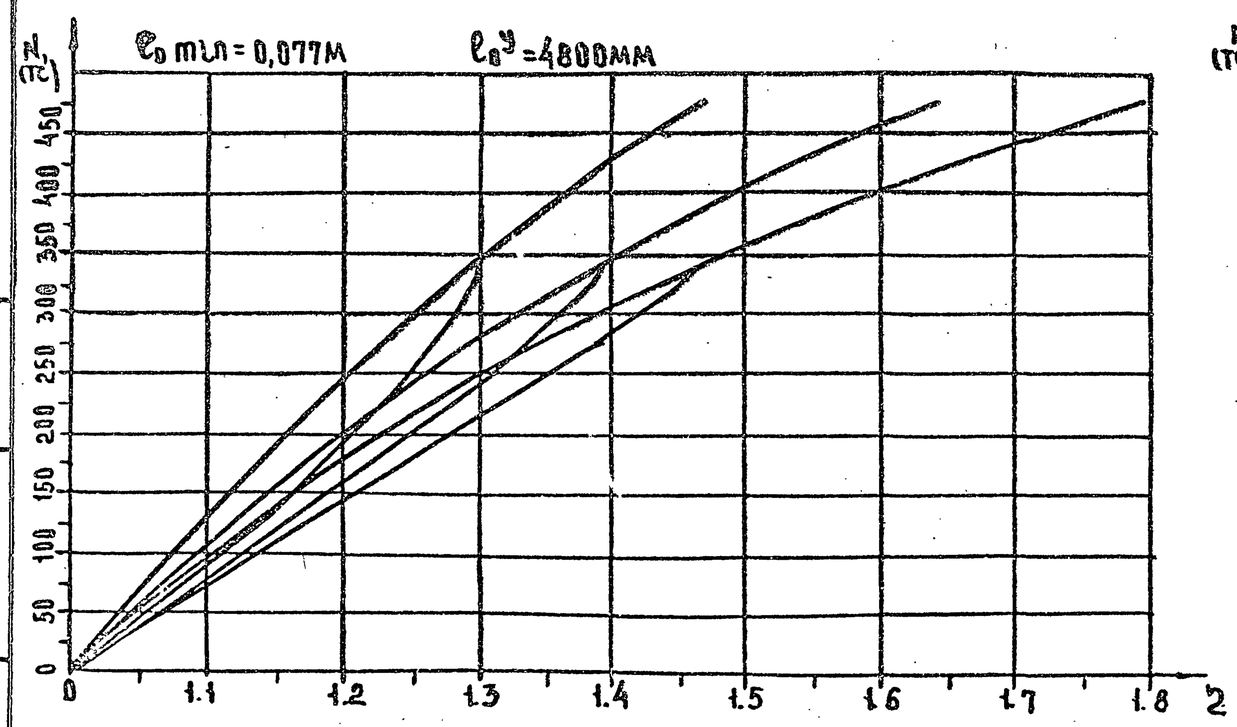
КЛАСС БЕТОНА В30 (Rв=18,7 МПА ПРИ УЧЕТЕ γв2=1,10)

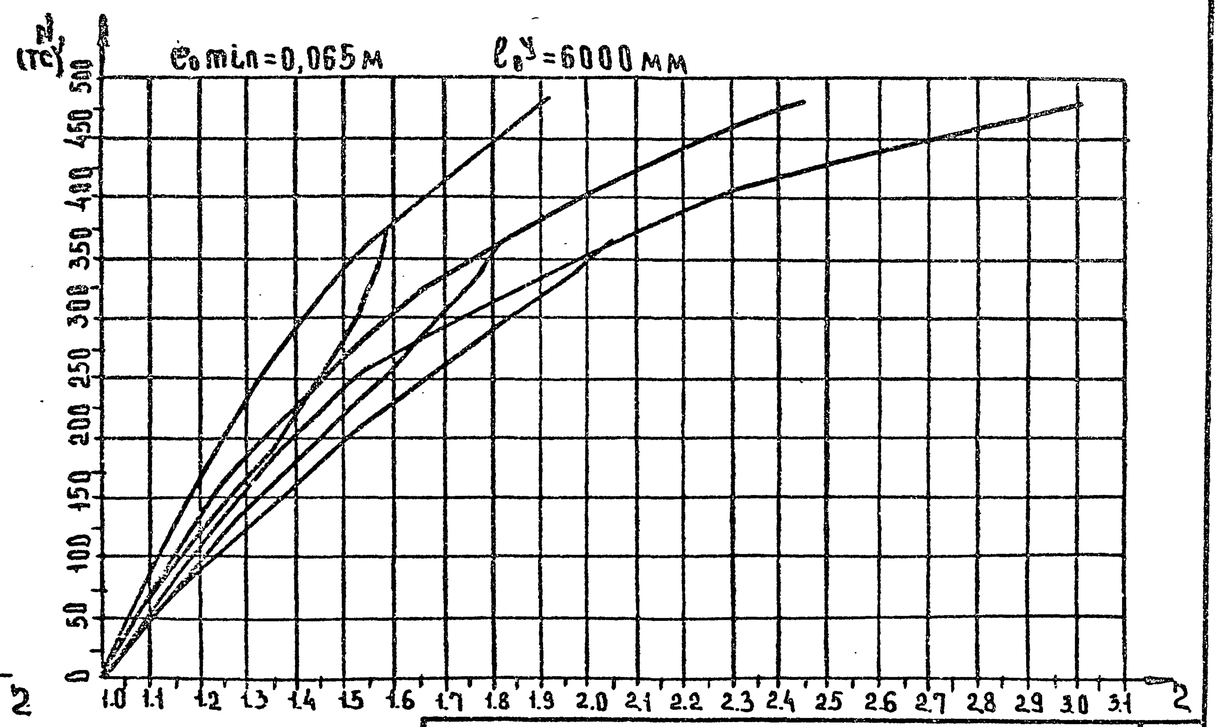


ВЗАМ. ИНВ. Н
ПОДП. И ДАТА
ИНВ. Н ПОДЛ.




| Инв. № подл. | Подп. и дата | Взам. инв. № |
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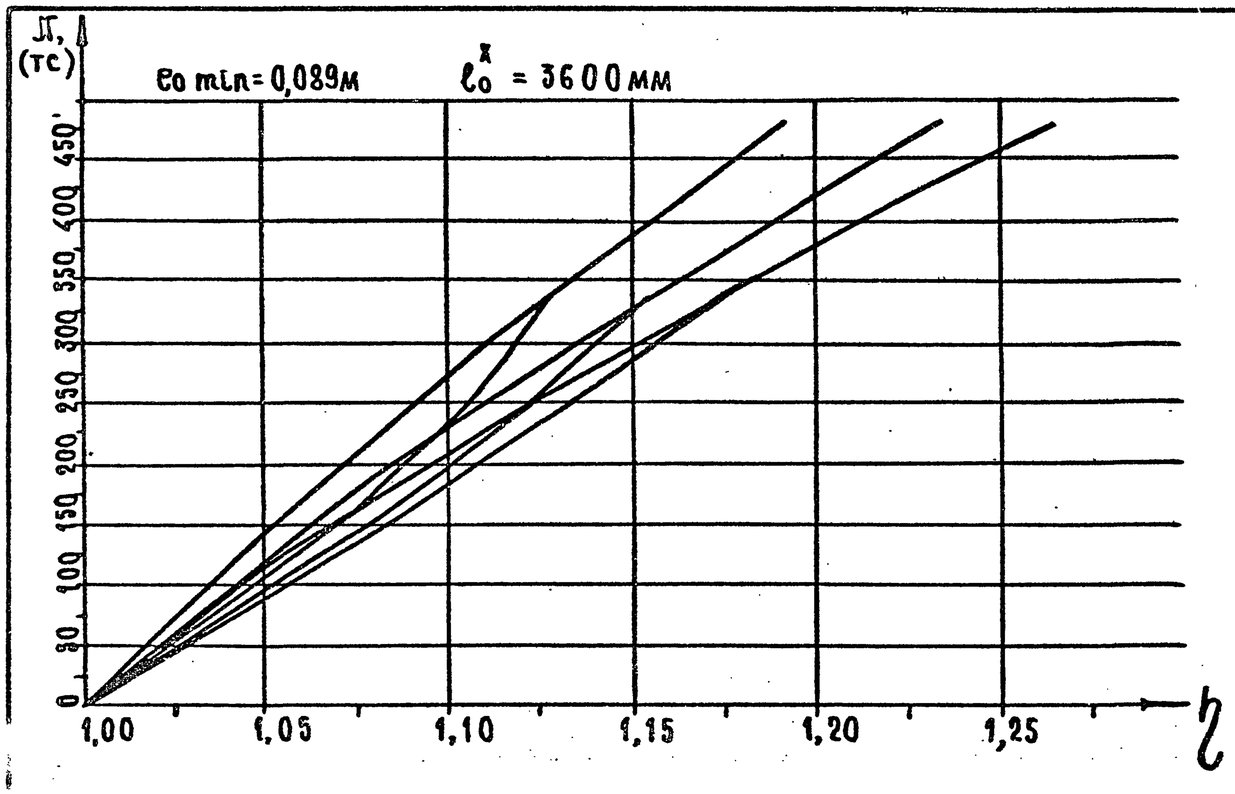
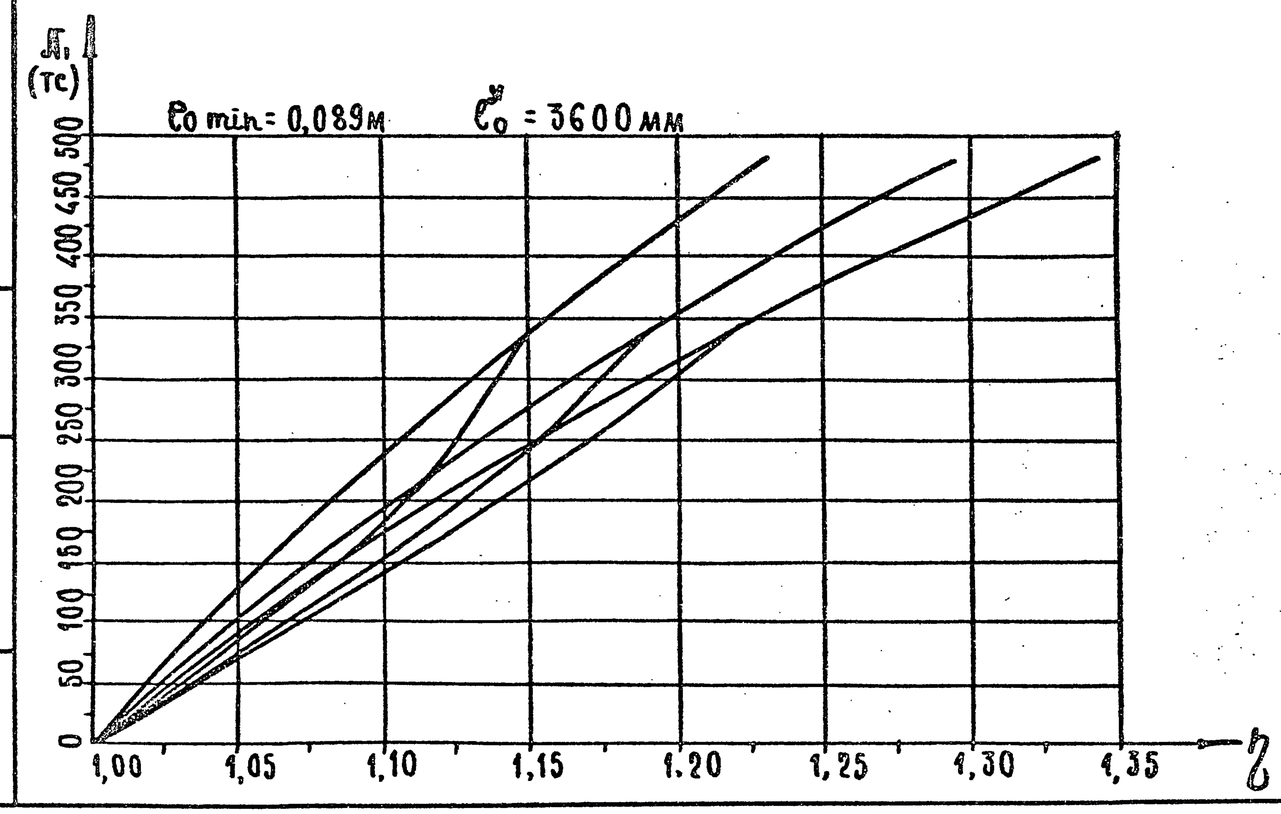
1.020-1/87. 0-6(дополнение 1)-2ПЗ

Лист 9

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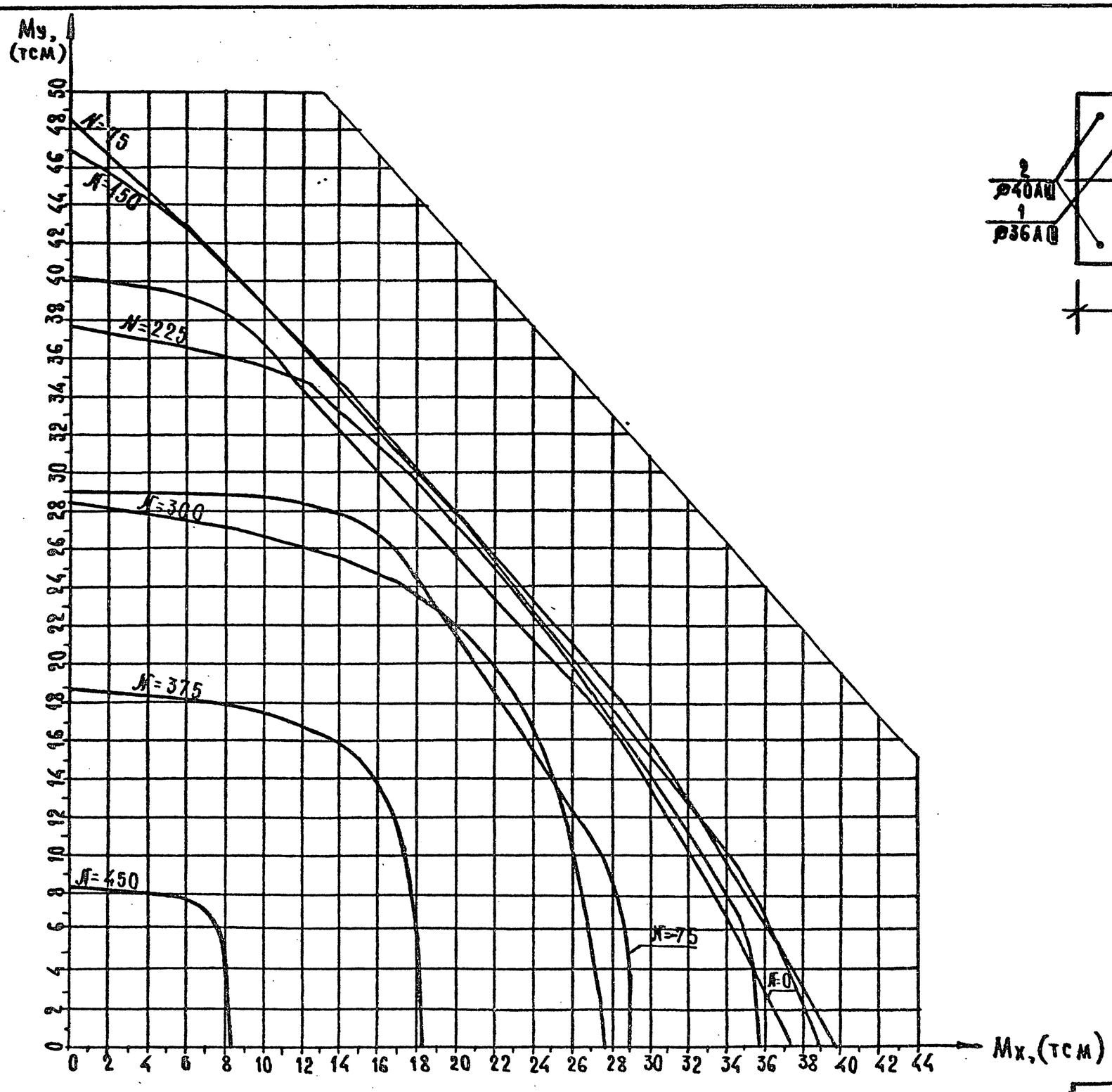
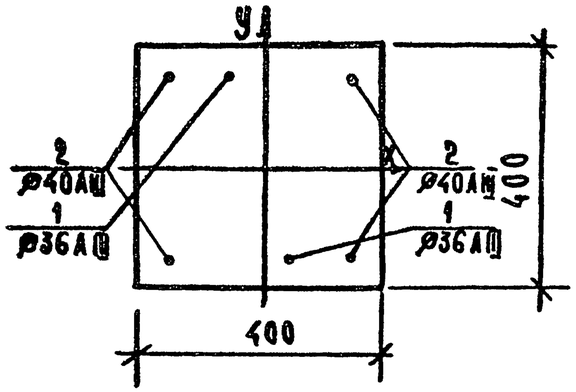
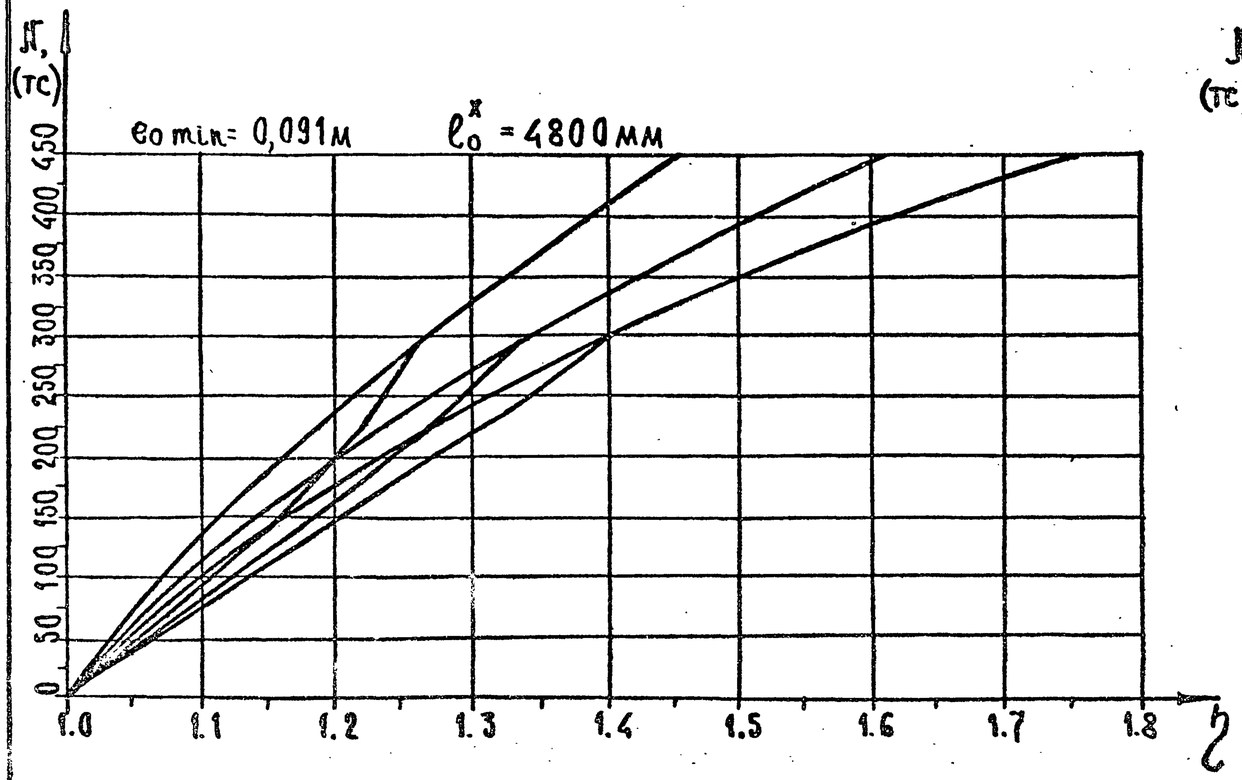


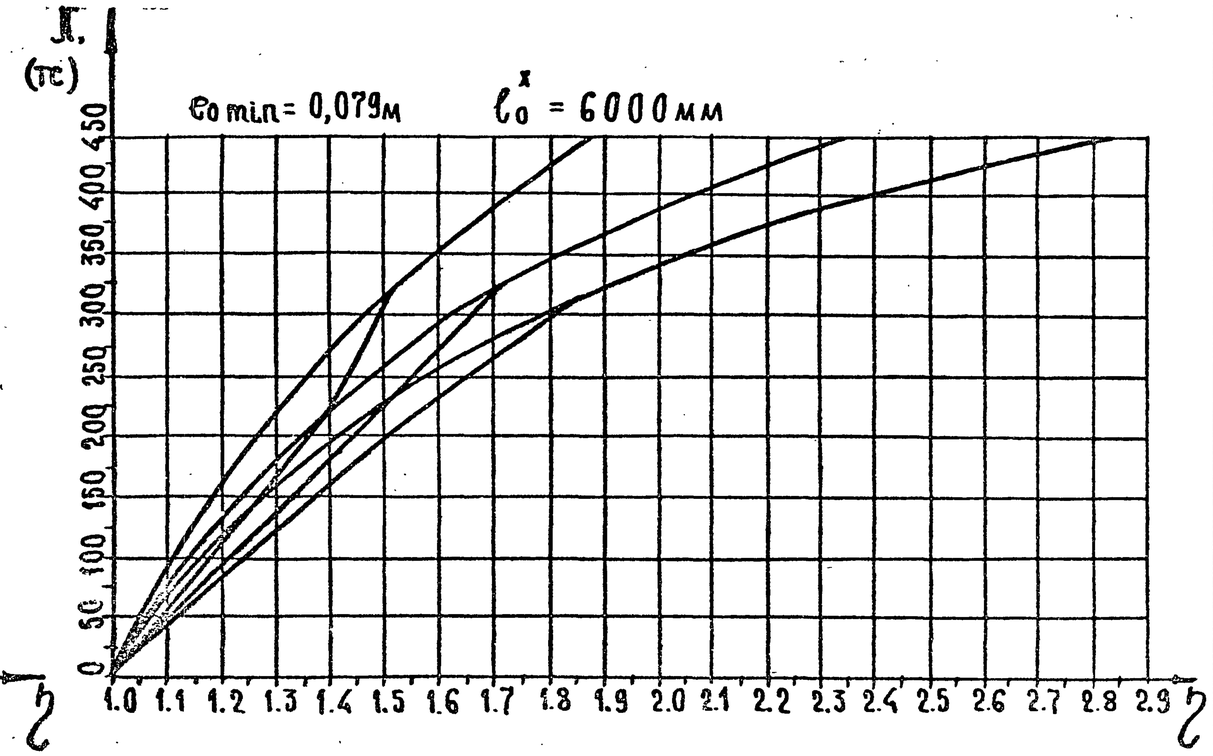



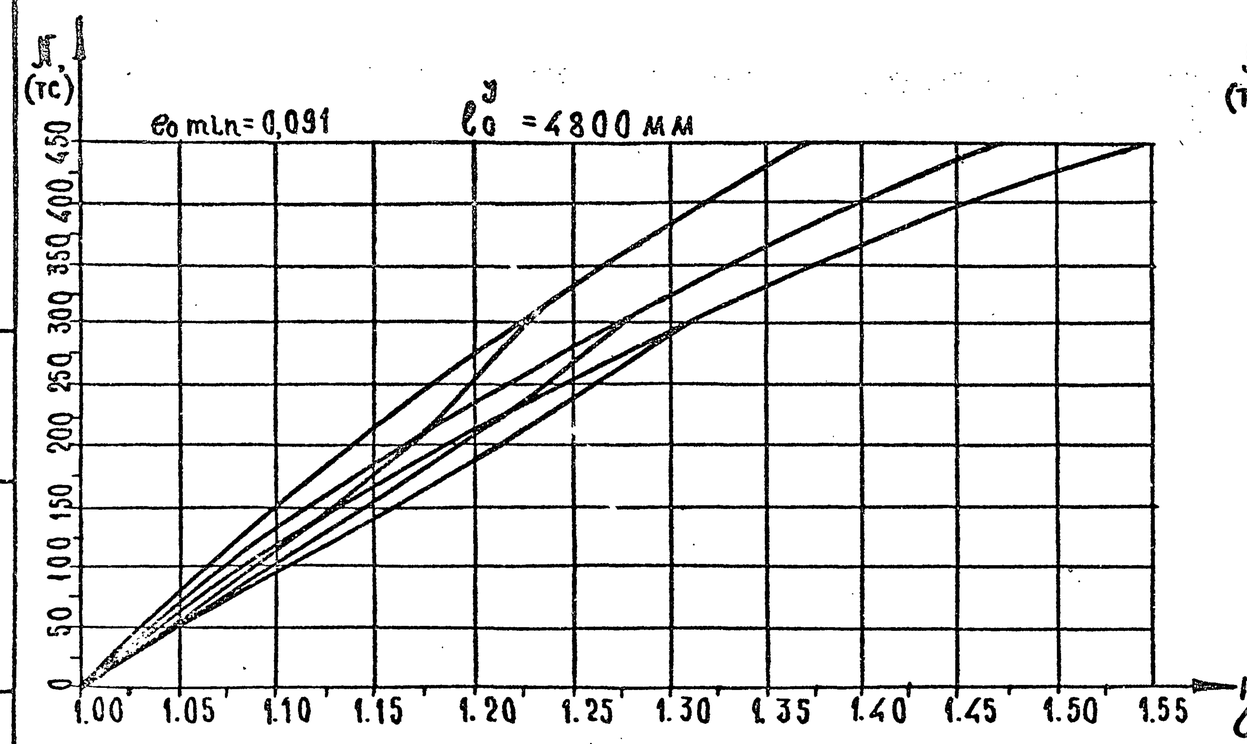

Класс бетона В30 ($R_в$=15,3 мпа при учете $\gamma_{b2}$= 0,90)

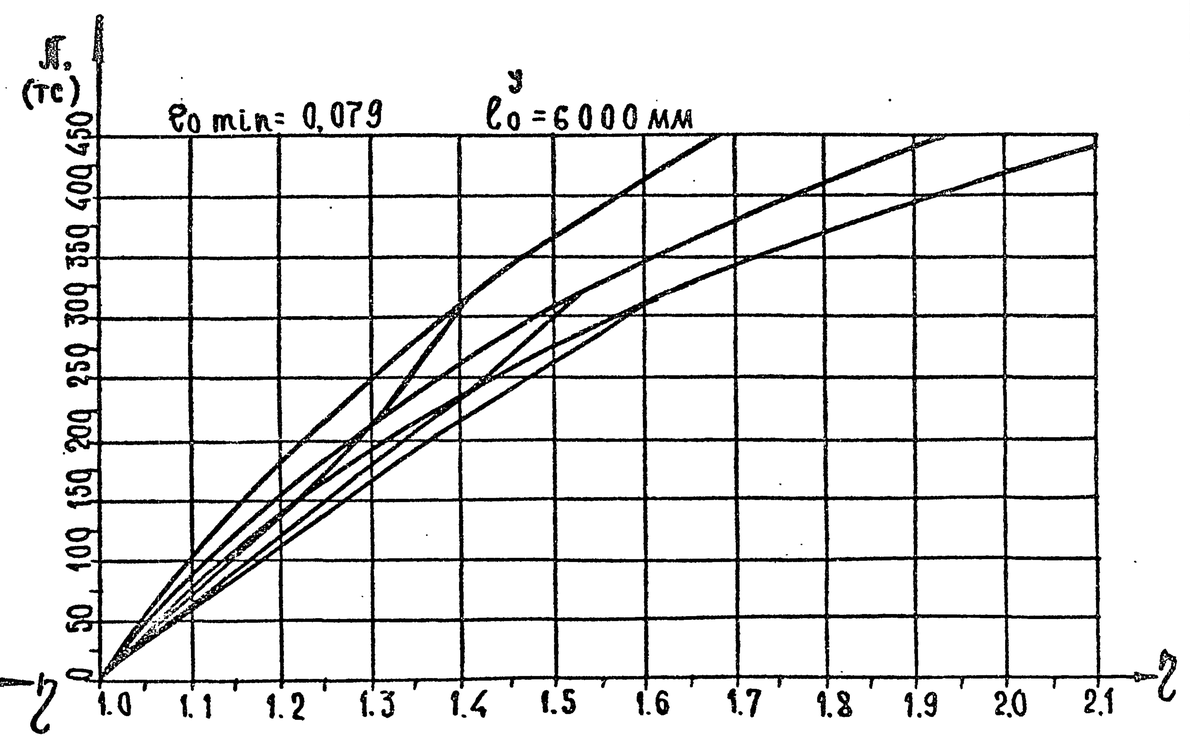
| | |
|---|---|
| 1.020-1/87.0-6(дополнение 1)-2ПЗ | Лист 11 |

Инв. № подл. | Подпись и дата | Взам. инв. №

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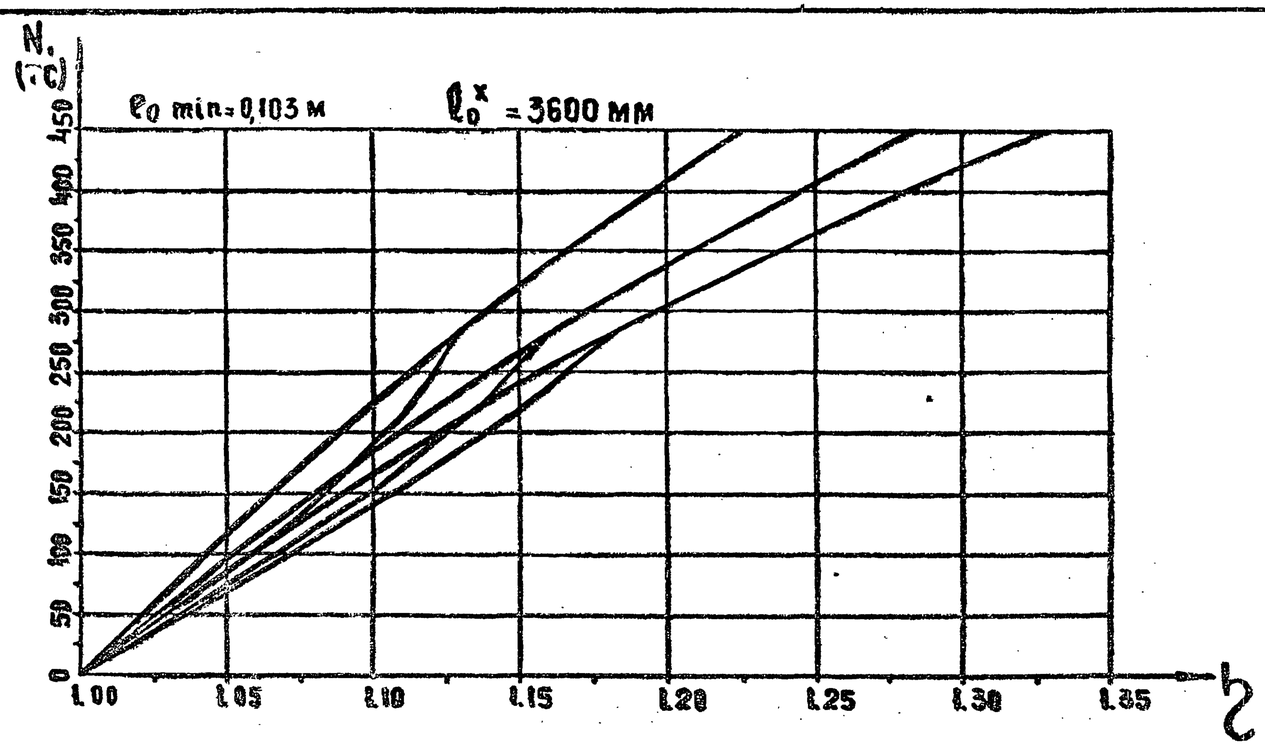
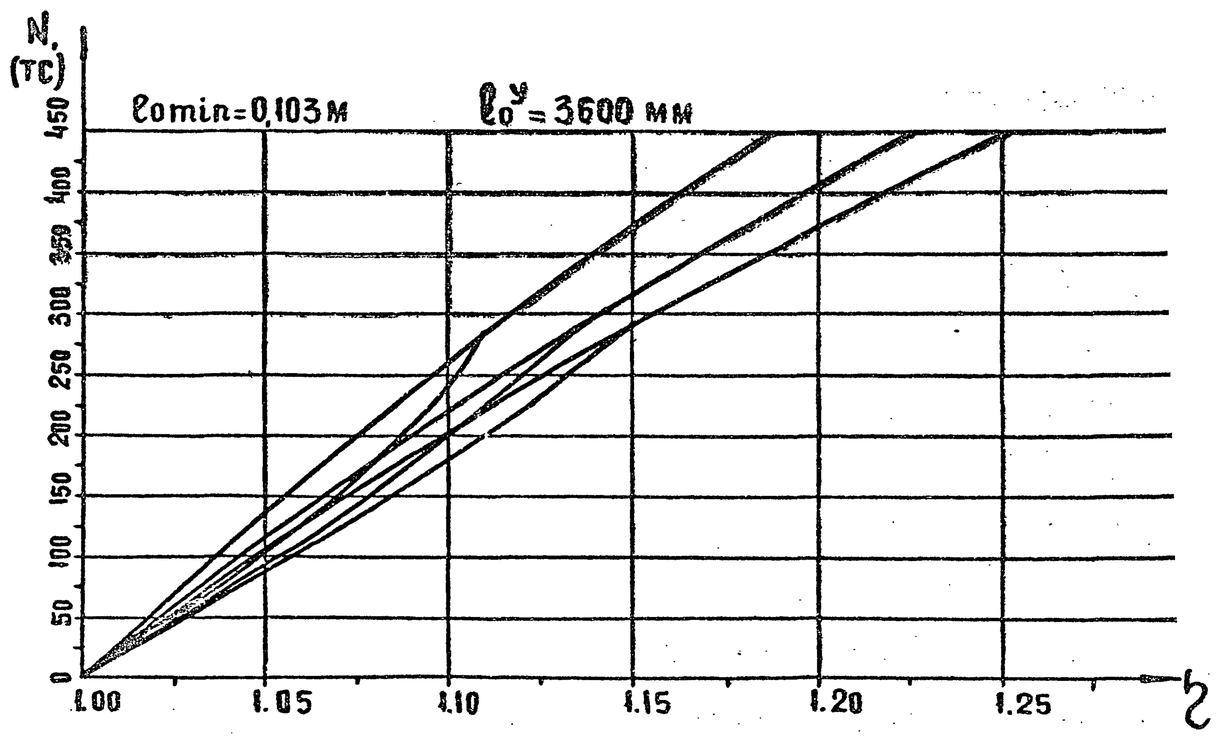
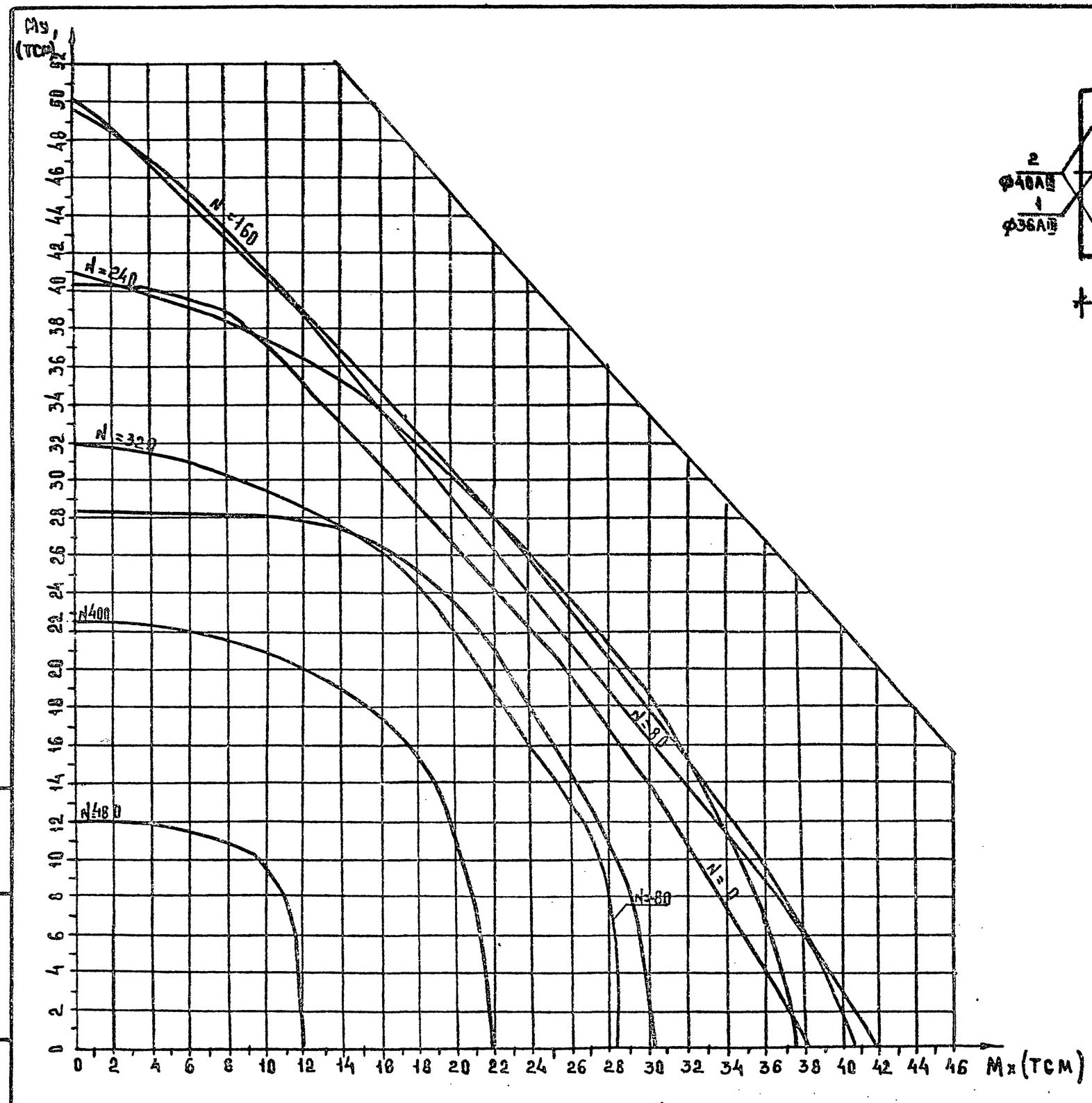
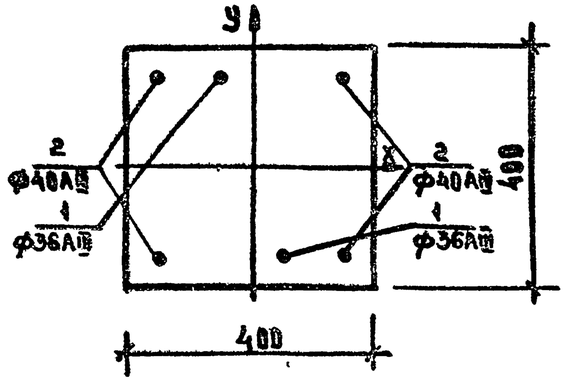


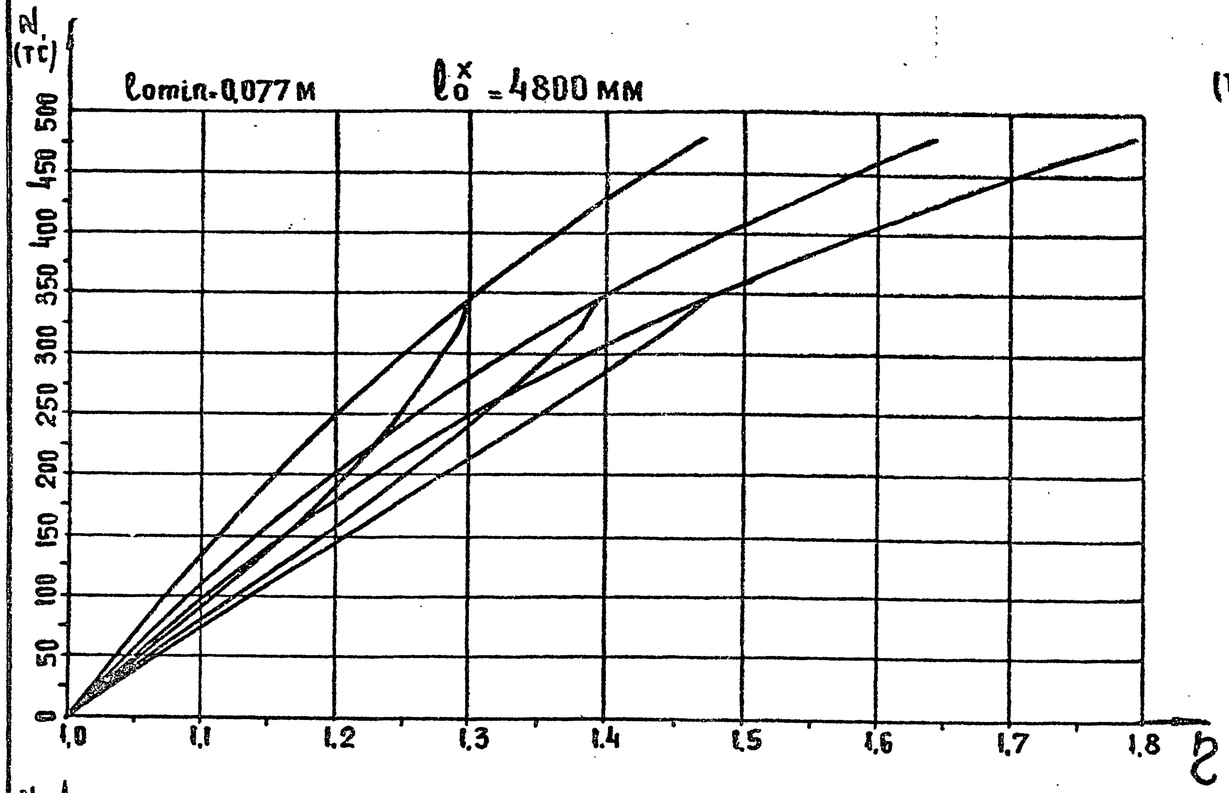

| Инв. N подл. | Подп. и дата | Взам. инв. N |
|---|---|---|
| | | |

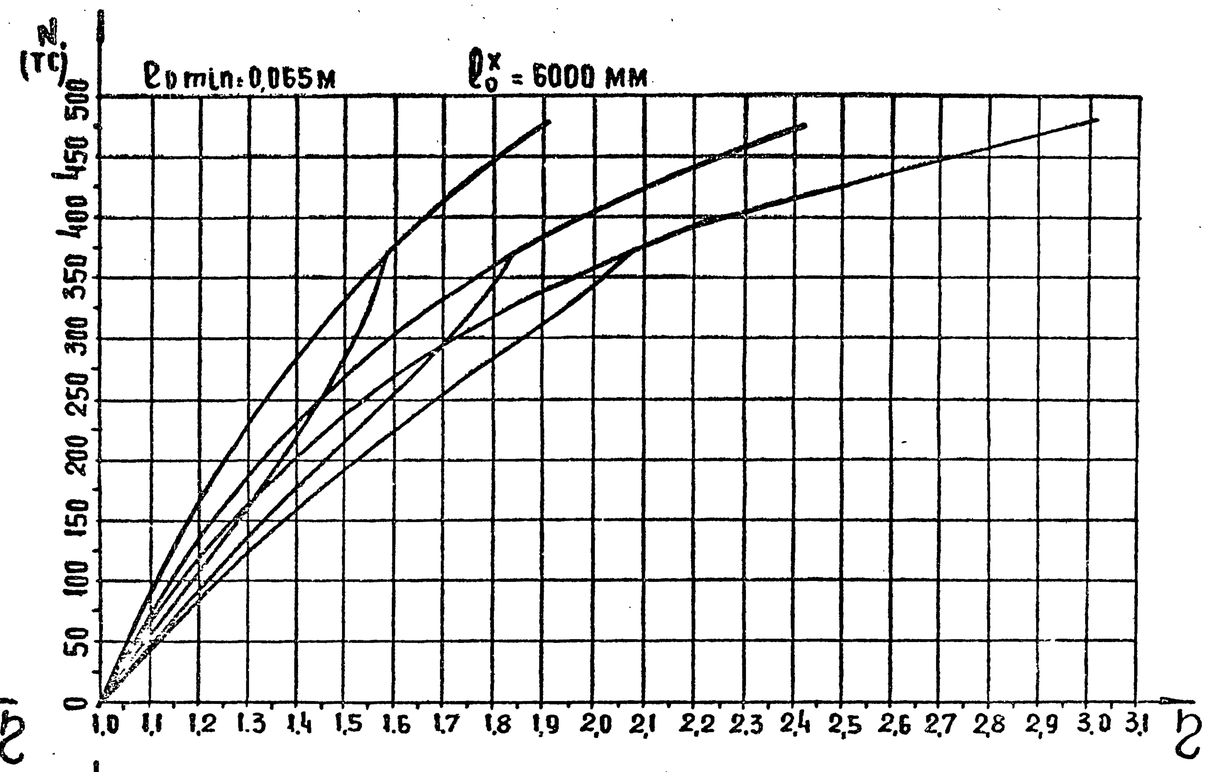


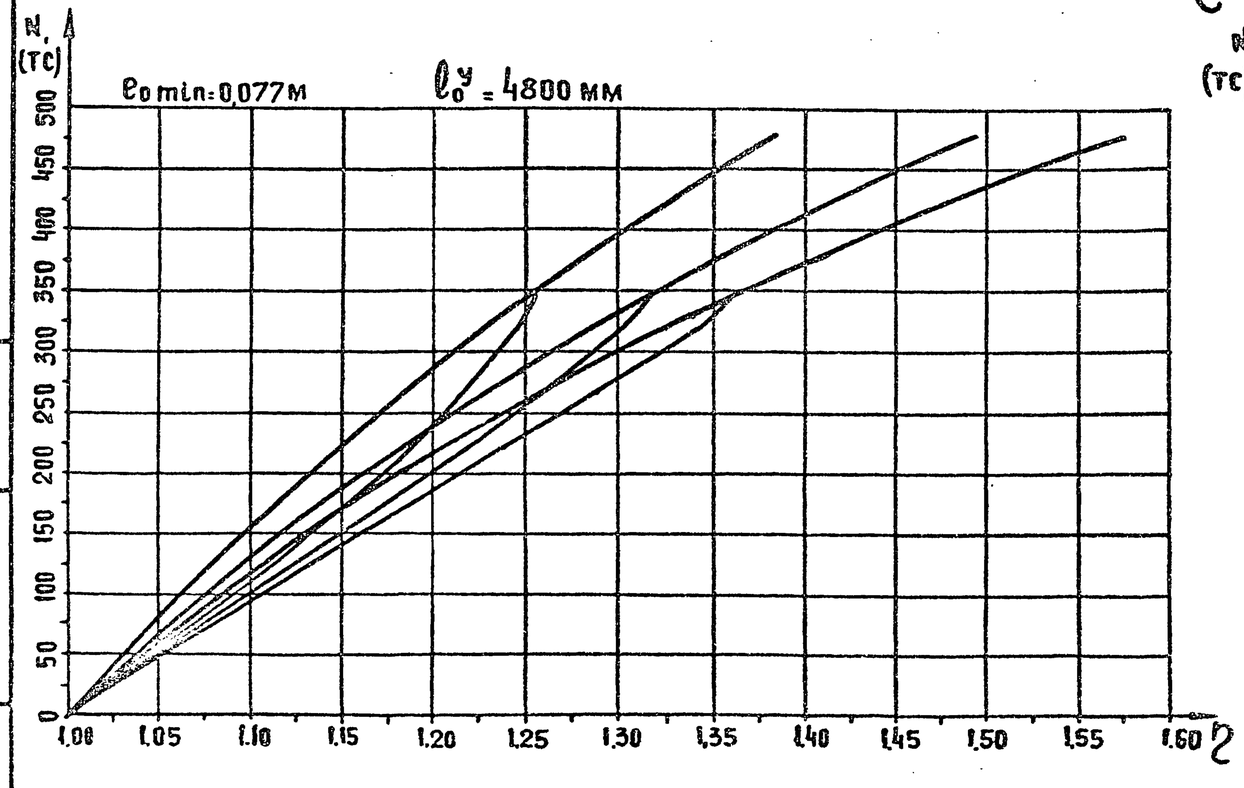



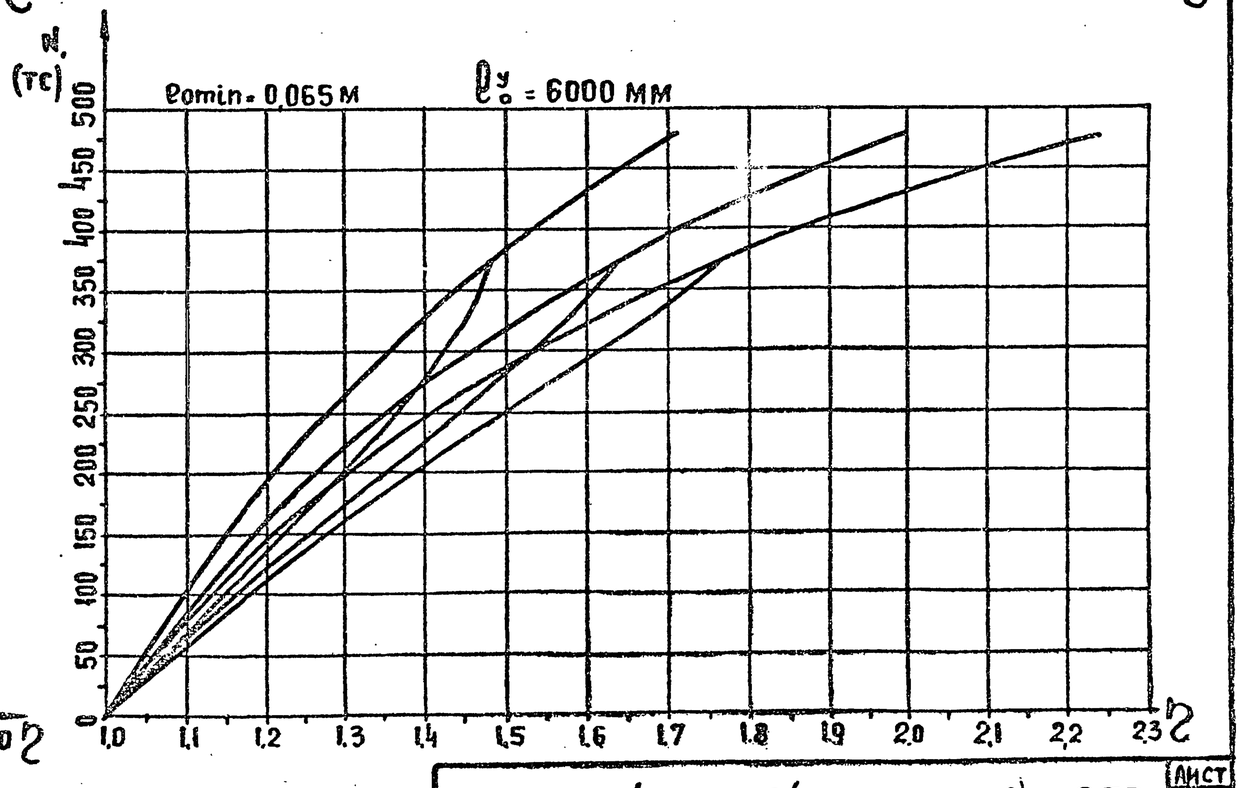

КЛАСС БЕТОНА В30 ($R_b$=18, 7МПА при учете $\gamma_{B2}$=1,10)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Инв. № подл. | Подпись и дата | Взам. инв. № | | 1.020-1/87.0-6(дополнение 1)-2ПЗ | | | Лист 14 |




| Инв. N подл. | Подп. и дата | Взам. инв. N |
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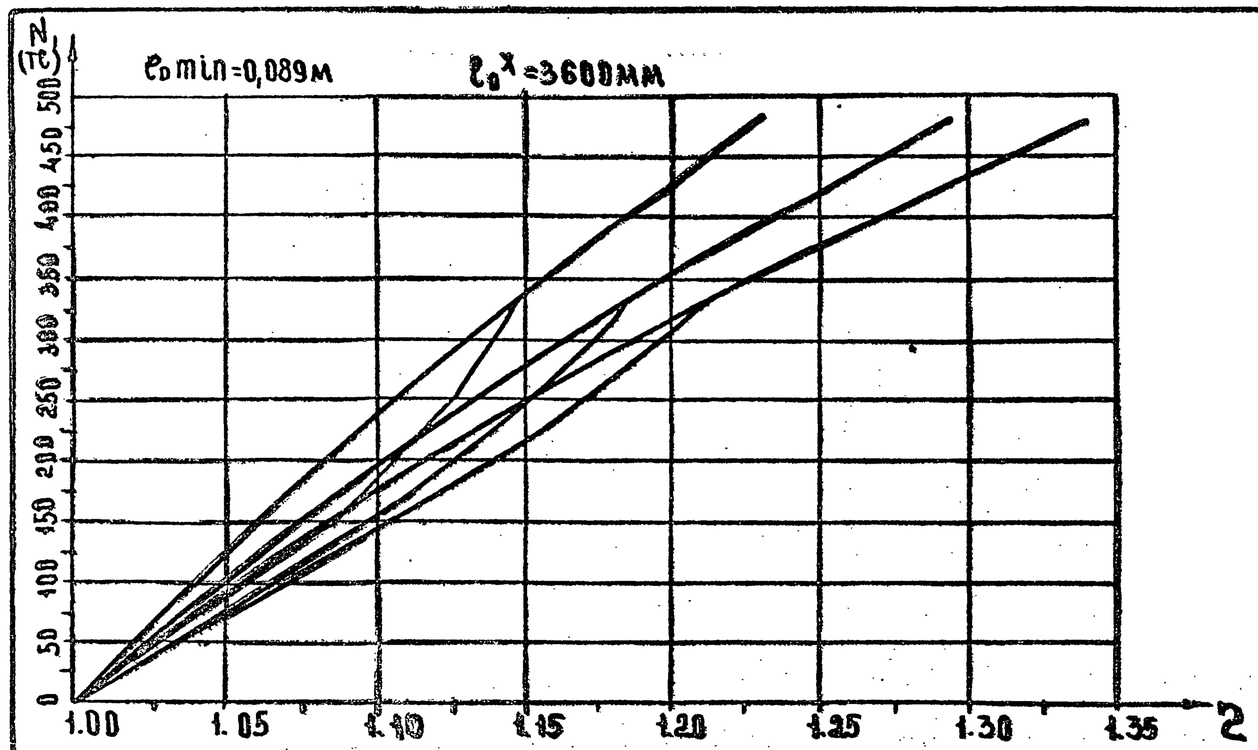
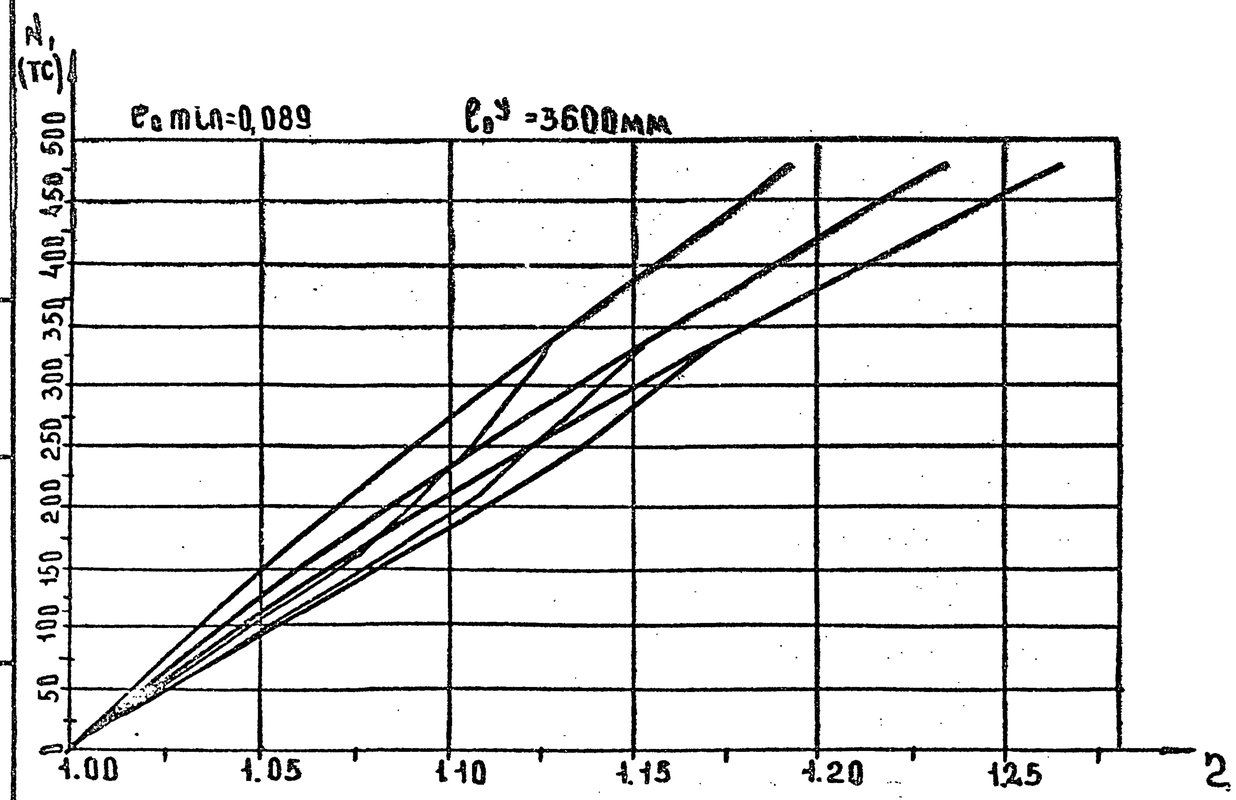
1.020-1/87-0-6(дополнение 1)- 2ПЗ

Лист 15

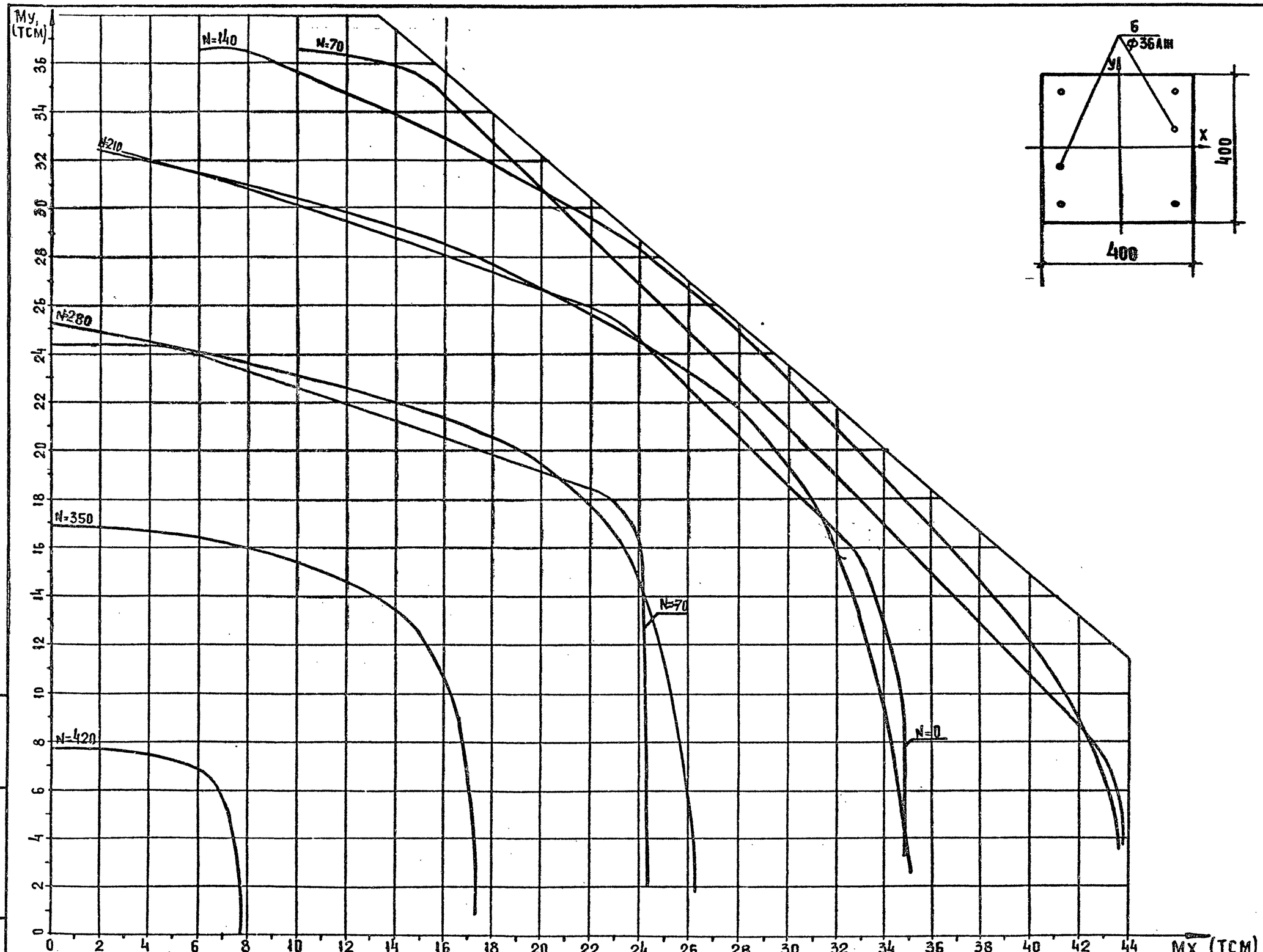
25764-02 18

Формат А3




| Инв. № подл. | Подп. и дата | Взам. инв. № |
|---|---|---|
| | | |







КЛАСС БЕТОНА В 30 ($R_B$=15,3 МПА ПРИ УЧЕТЕ $\gamma_{B2}$=0,90)

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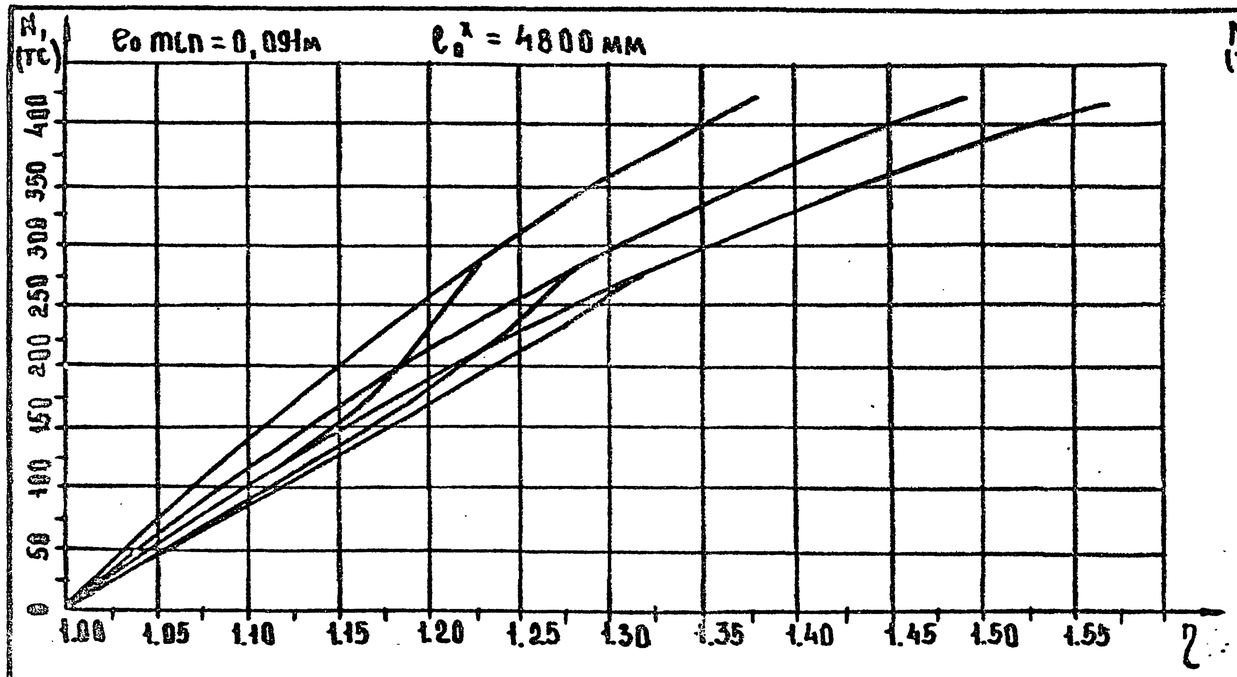
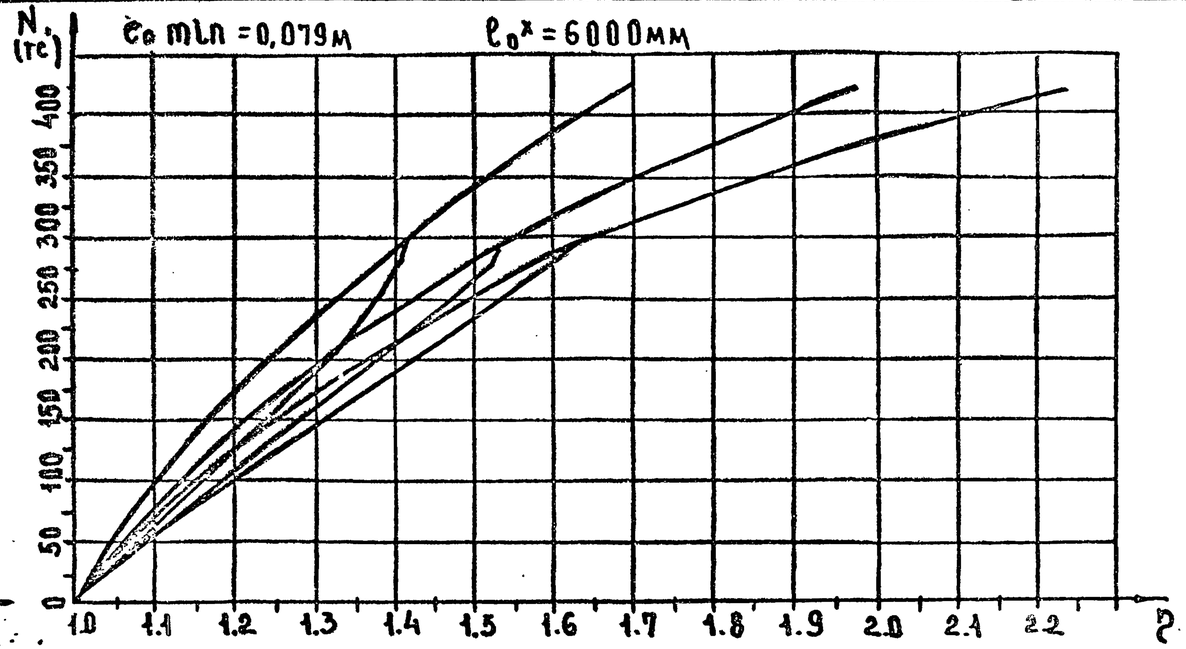
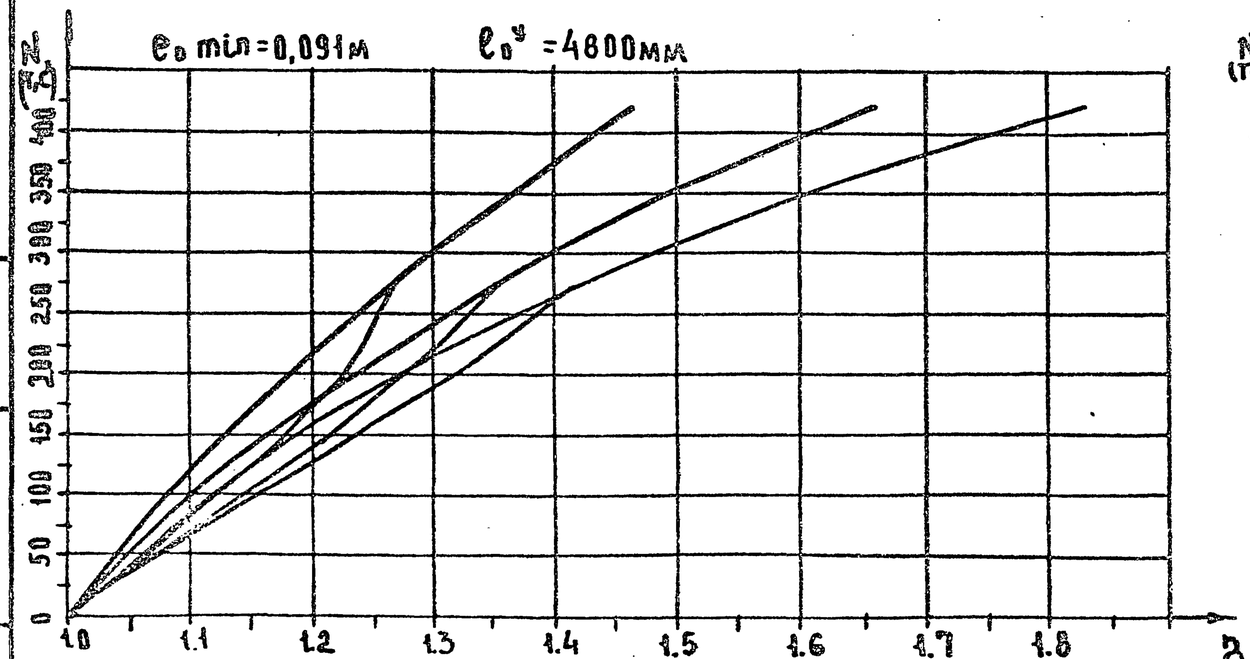
|---|---|
| 1.020-1/87. 0-6(ДОПОЛНЕНИЕ1)-02ПЗ | ЛИСТ 17 |

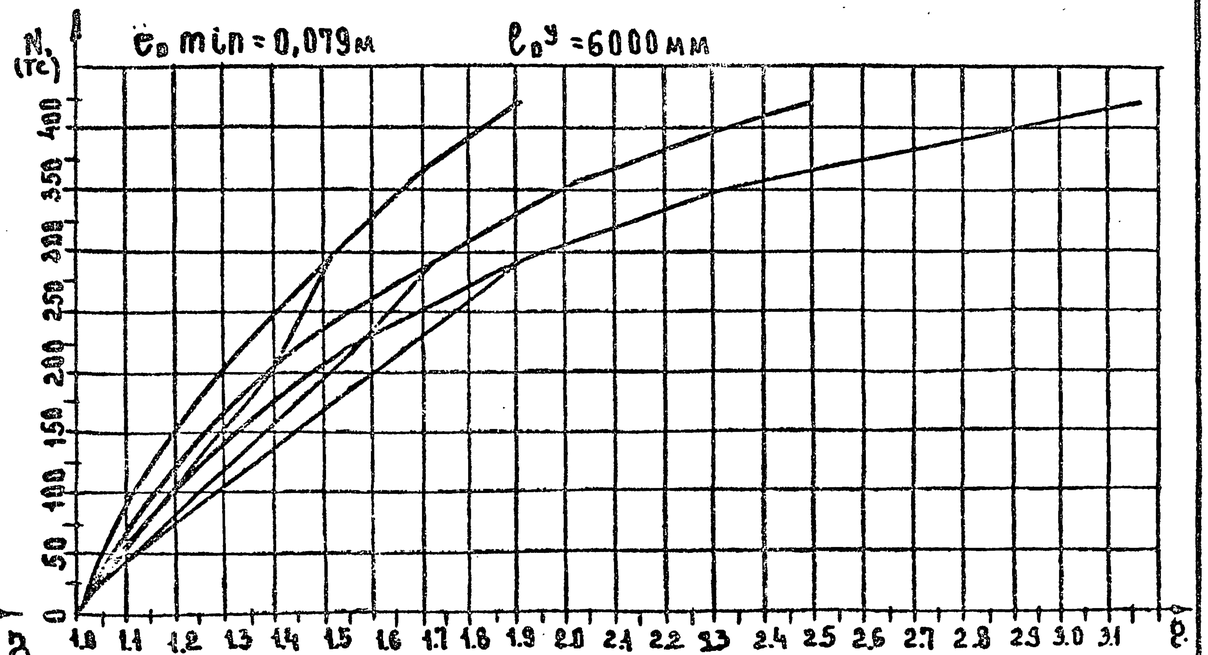
ВЗАМ. ИНВ. Н | ПОДП. И ДАТА | ИНВ. Н ПОДЛ.

25764-02 20

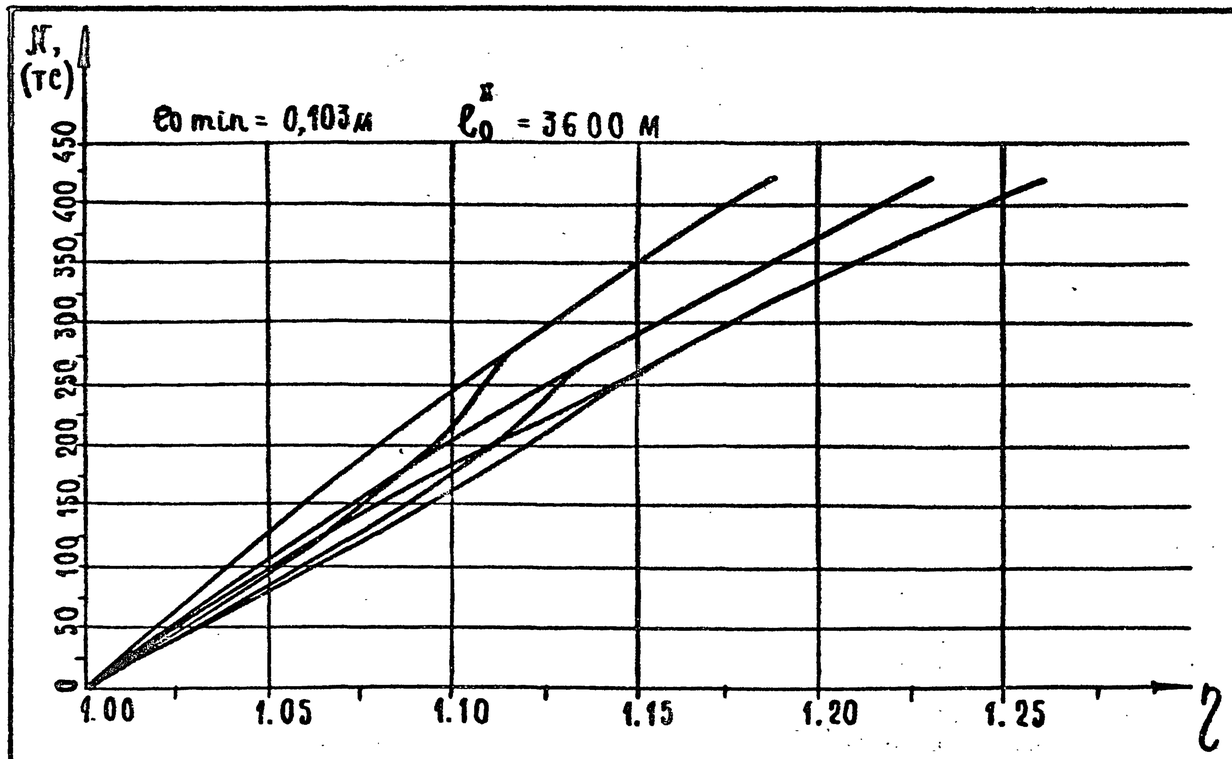


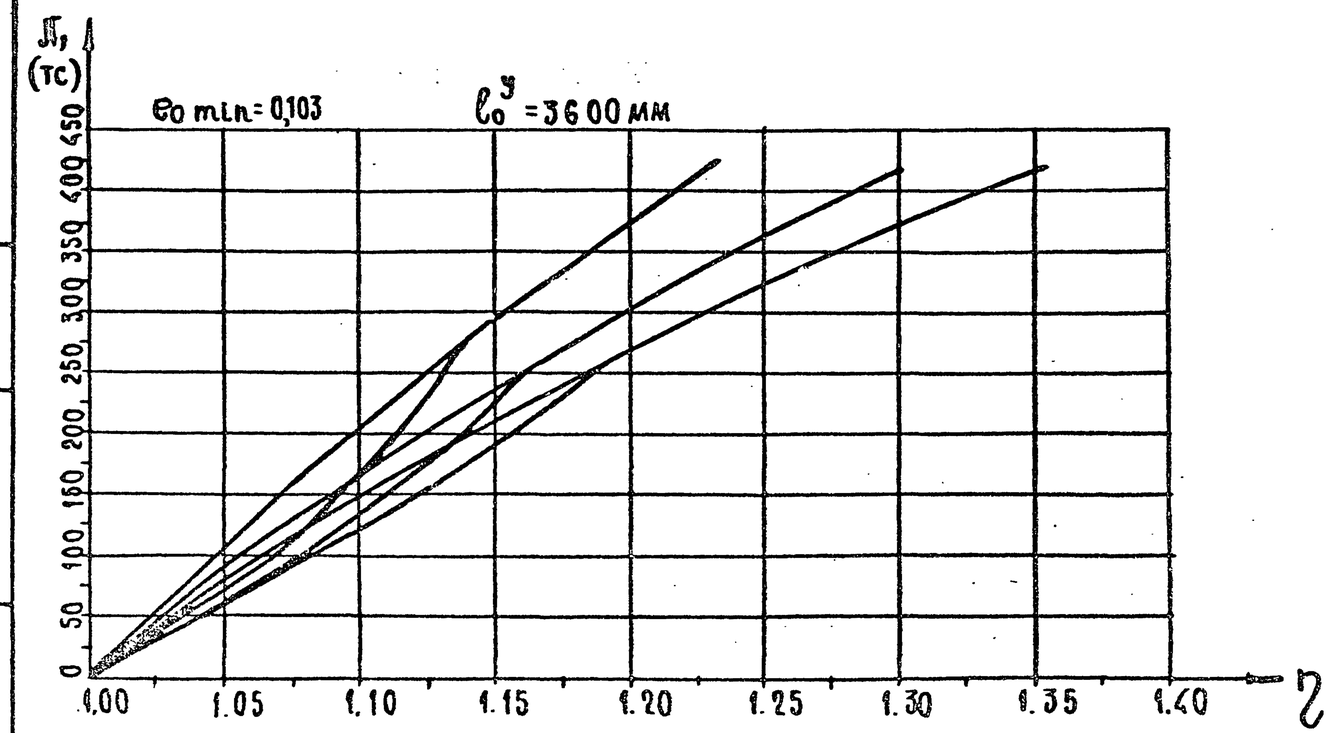



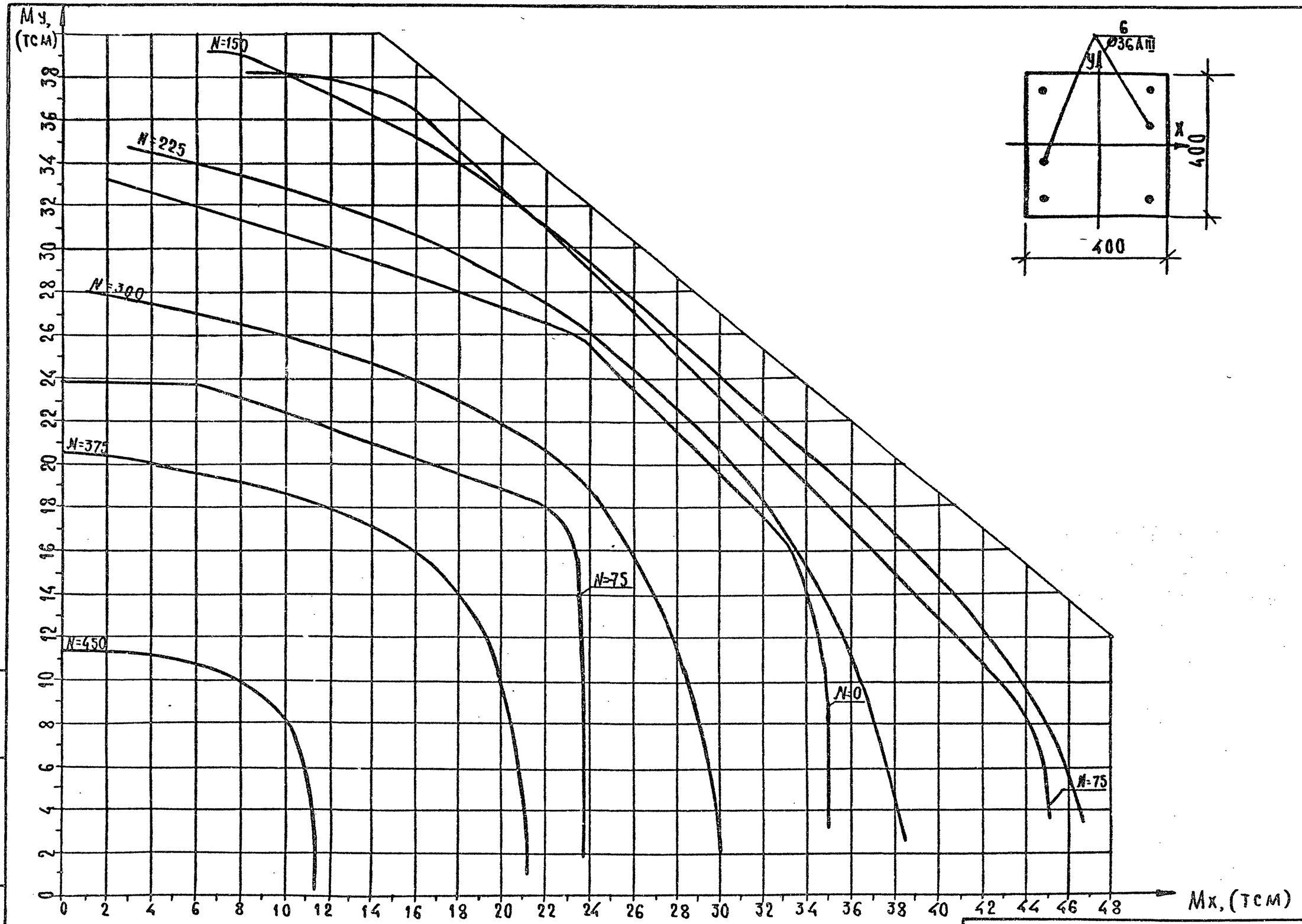




Инв. № подл. | Подп. и дата | Взам. инв. №




Инв. № подл. | Подпись и дата | Взам. инв. №




Класс бетона В30 ($R_в$=18,7 мпа при учете $\gamma_{в2}$=1,10)

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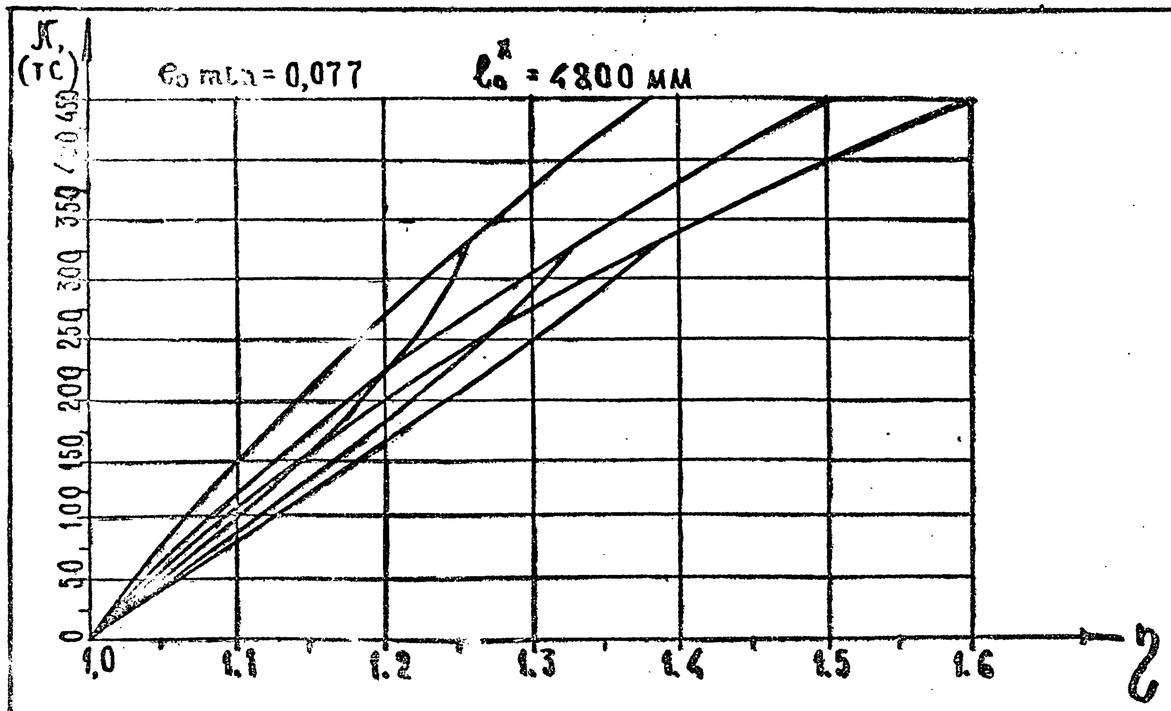
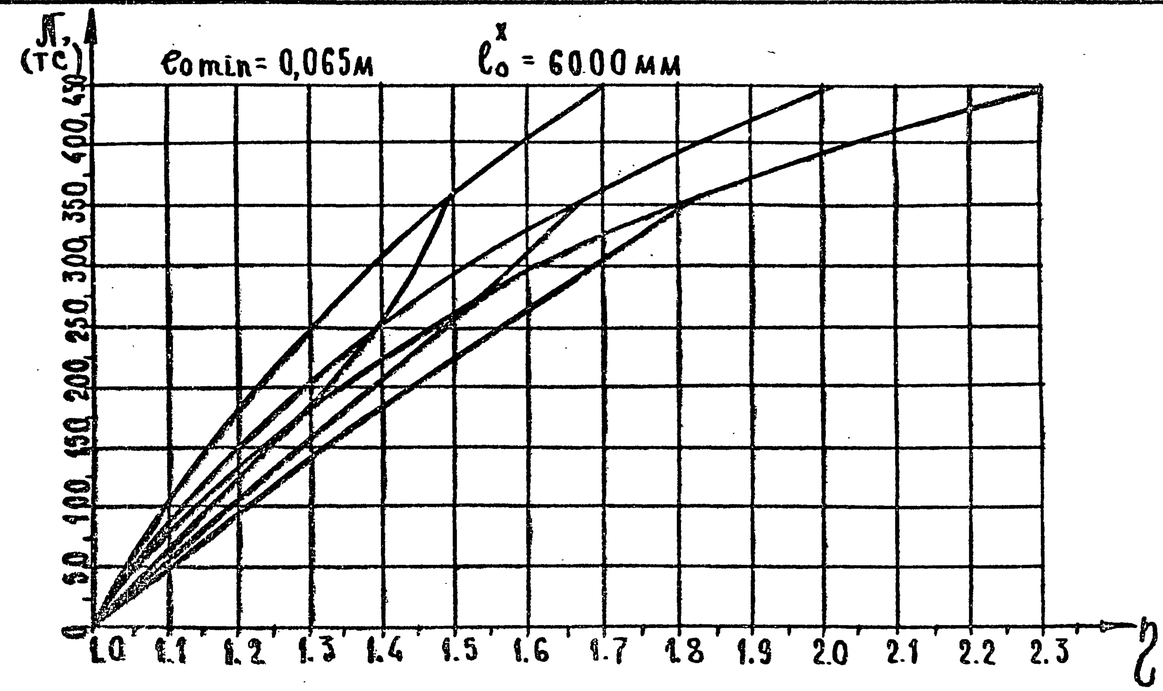
|---|---|
| 1.020-1/87.0-6(дополнение 1)-2 ПЗ | Лист 20 |

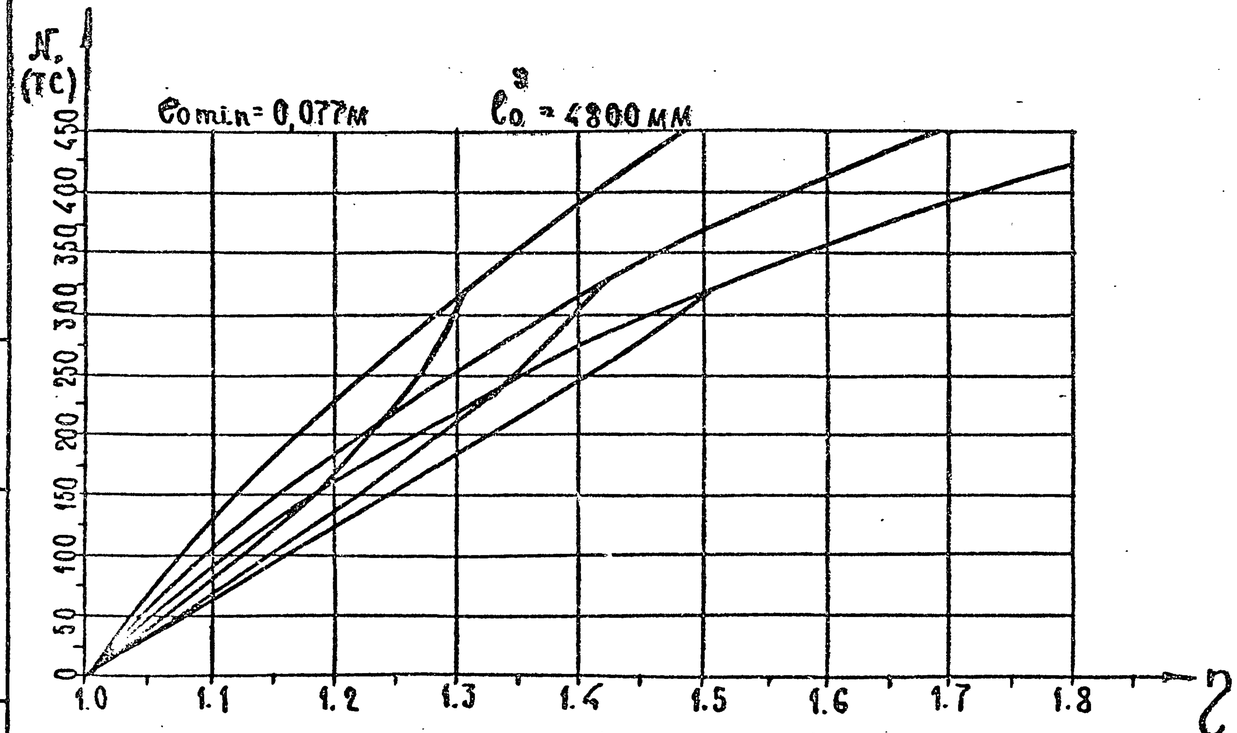


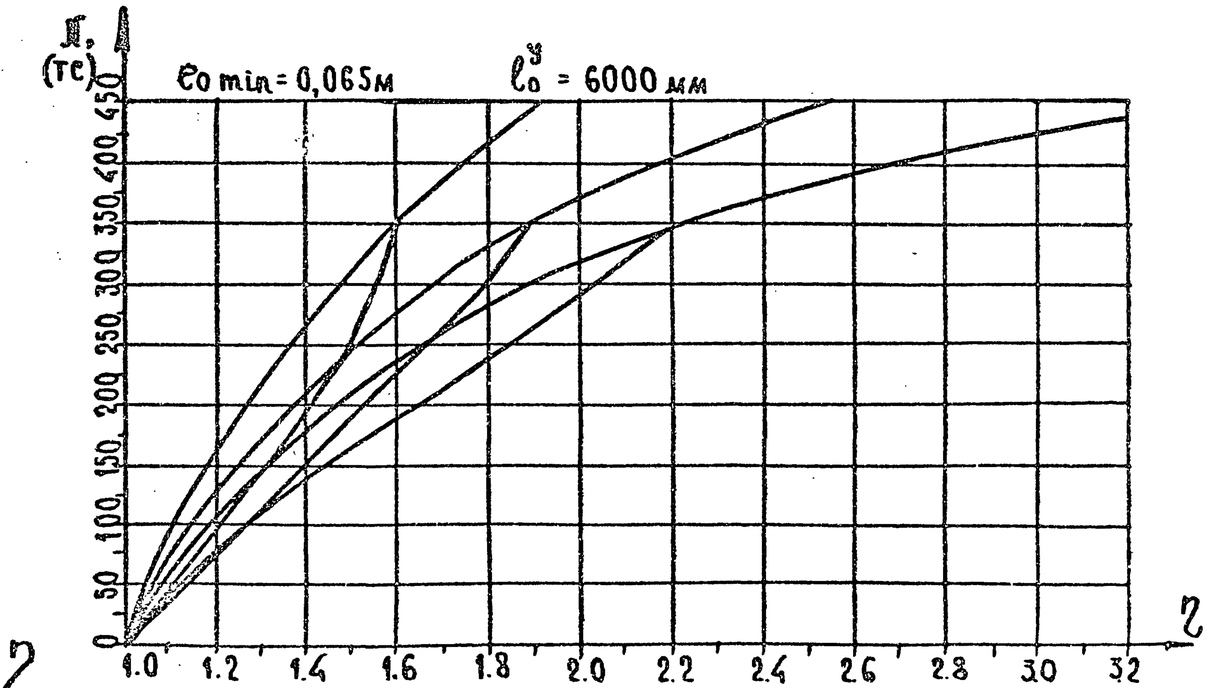
Формат А3

Инв.№ подл. | Подпись и дата | Взам. инв.№

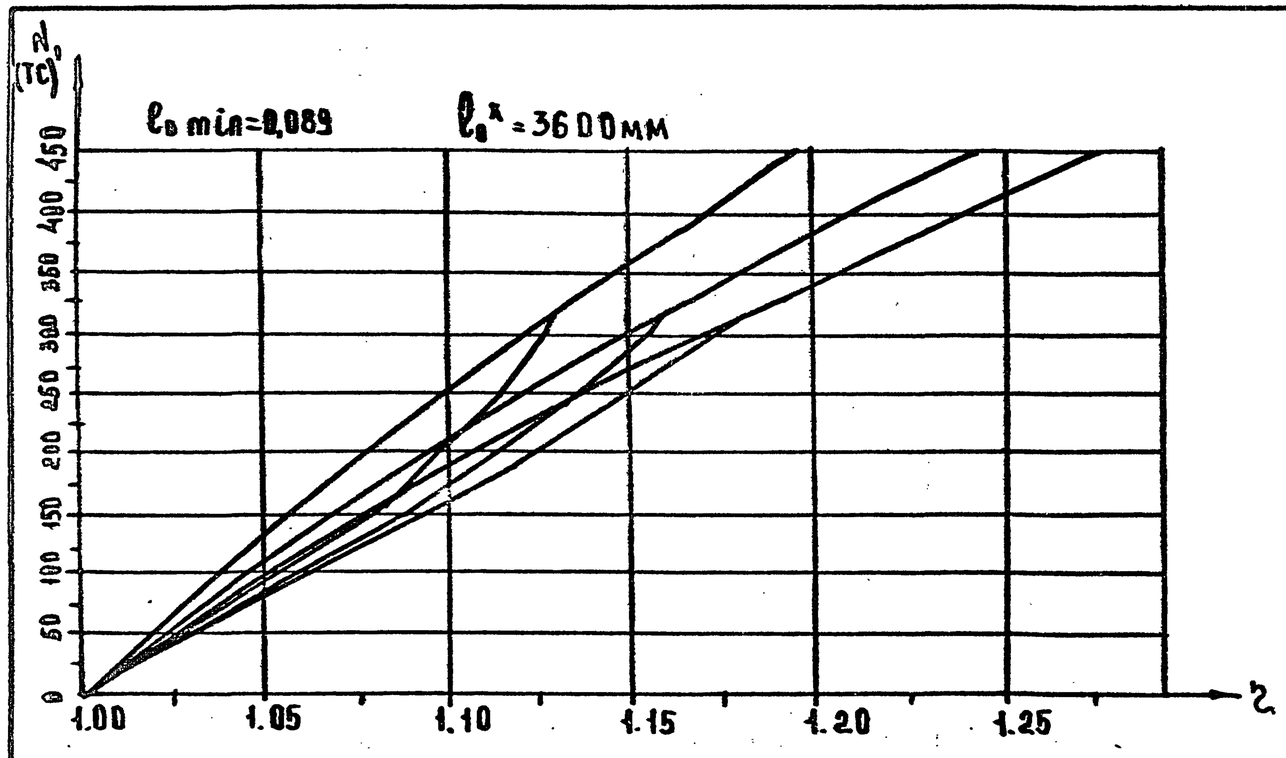


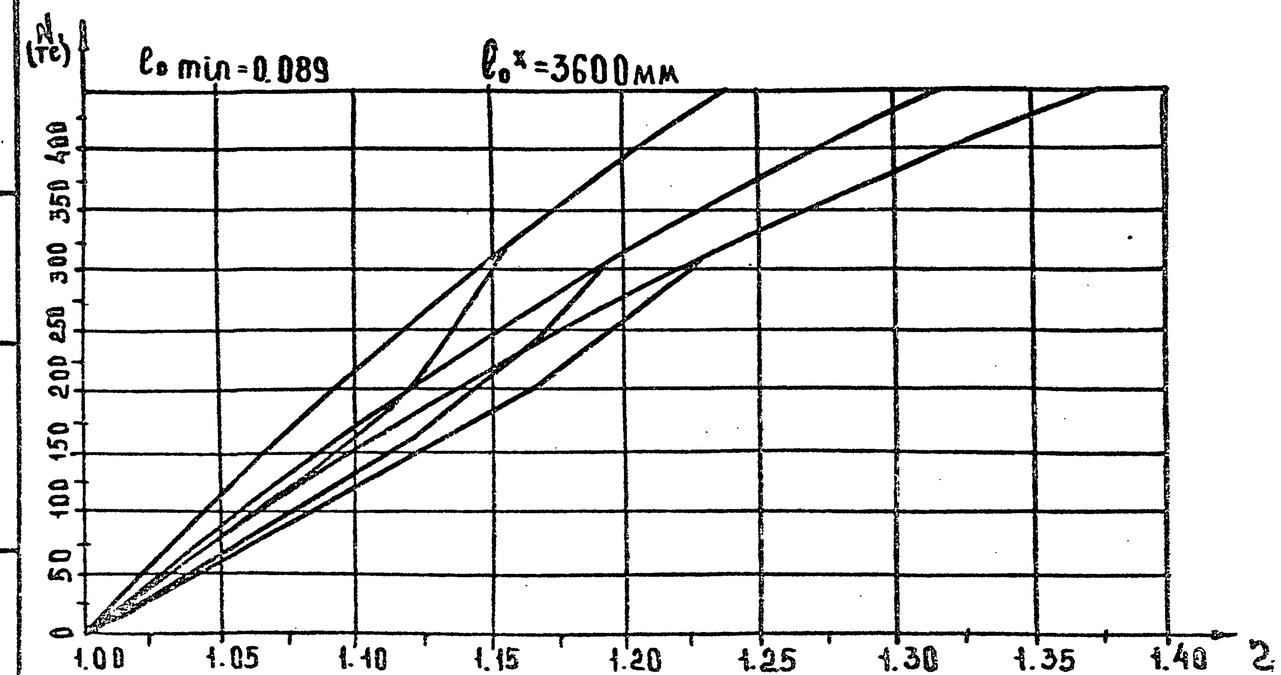



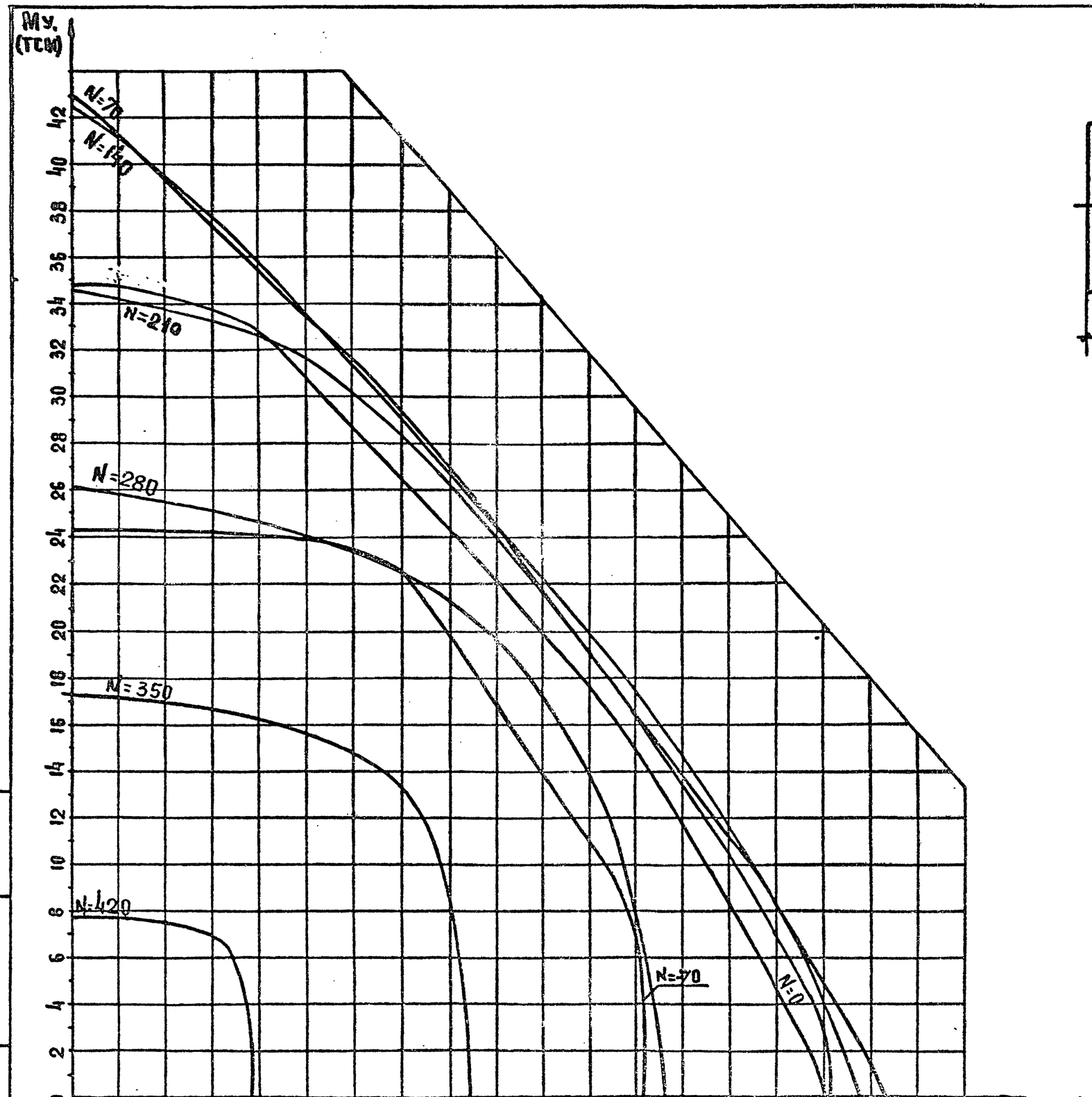



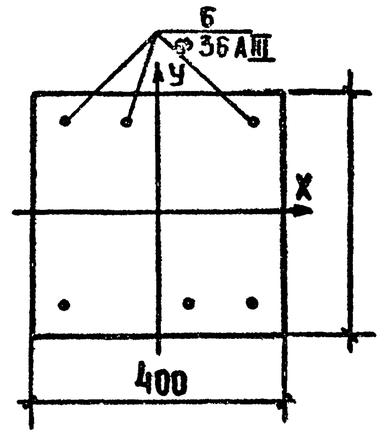

Инв. № подл. | Подпись и дата | Взам. инв. №



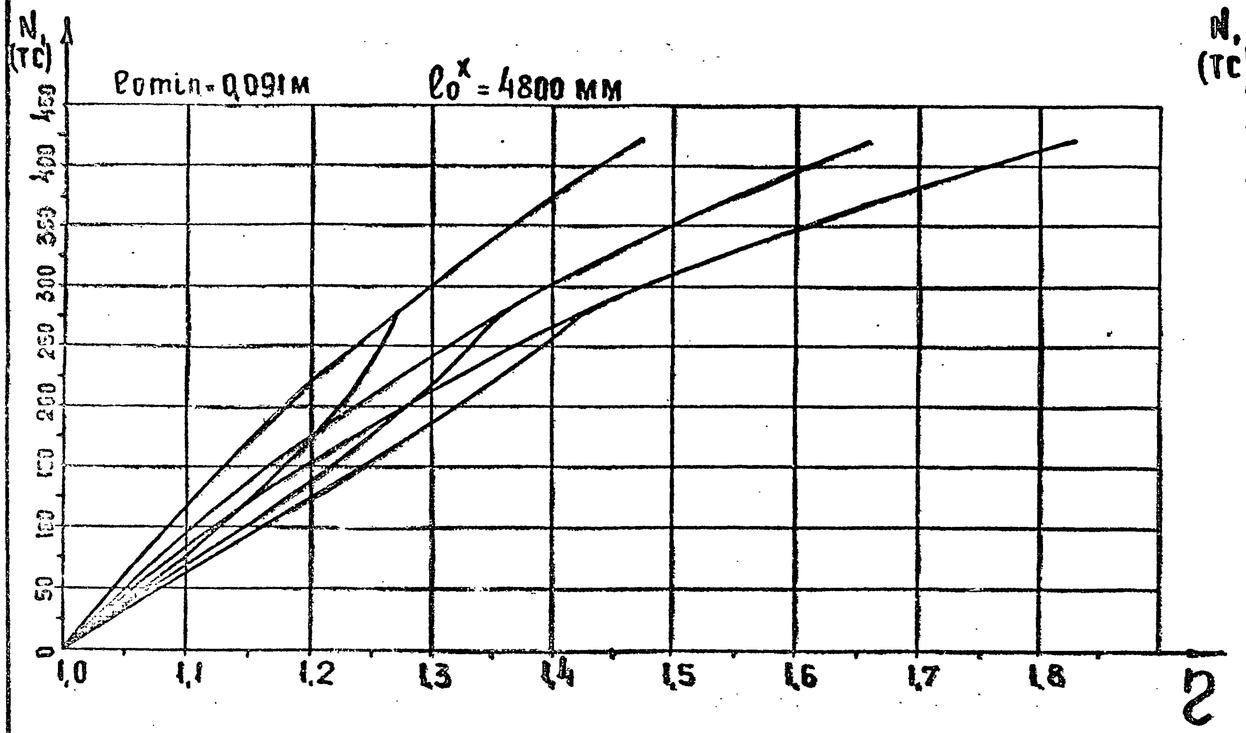

ИНВ.№ ПОДЛ | ПОДП. И ДАТА | ВЗАМ. ИНВ.№

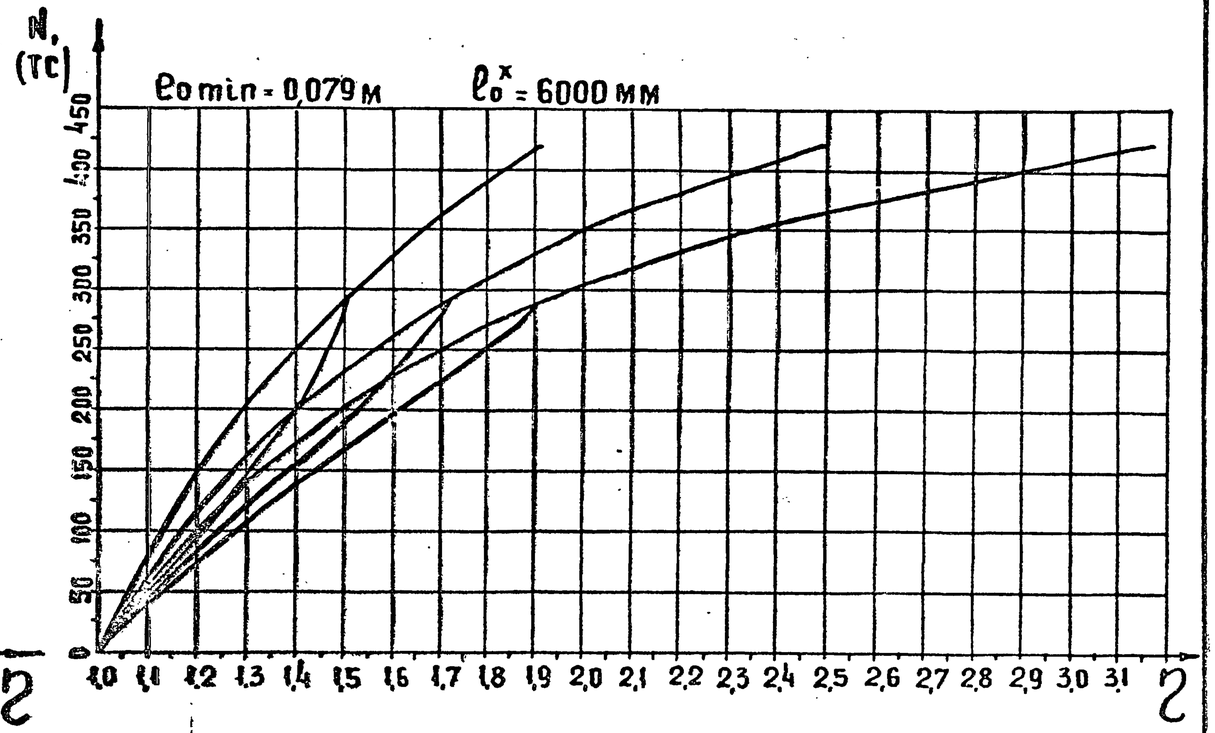


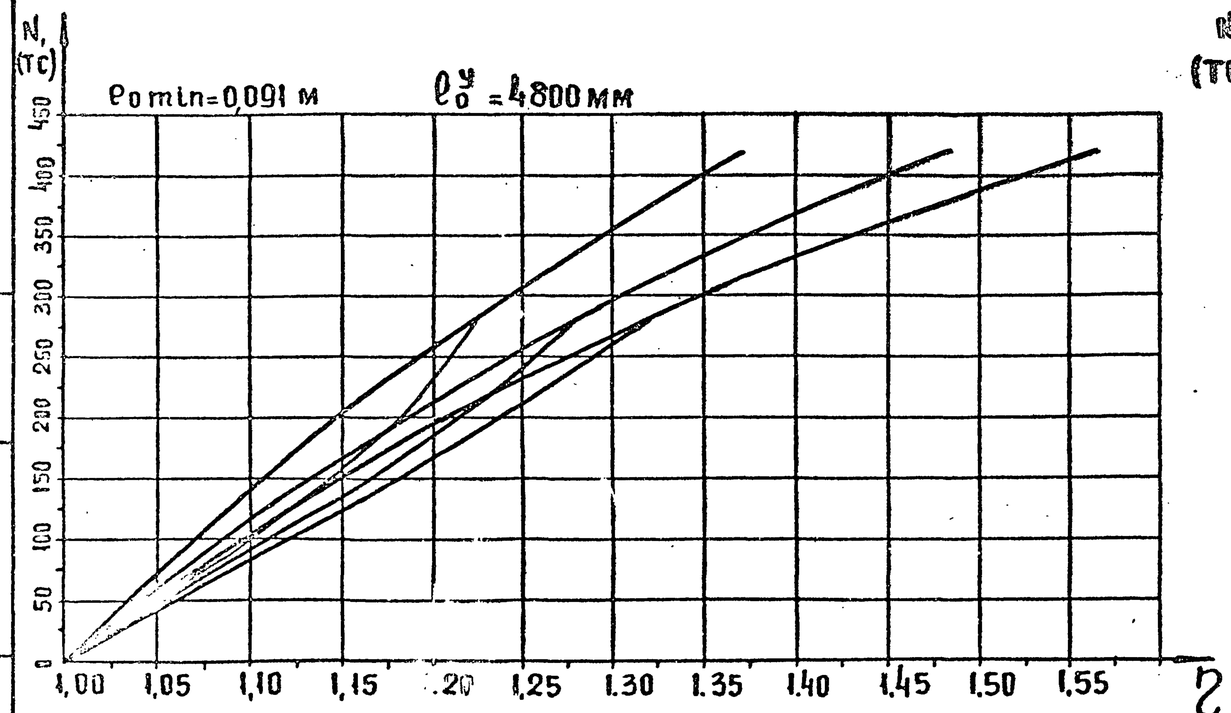



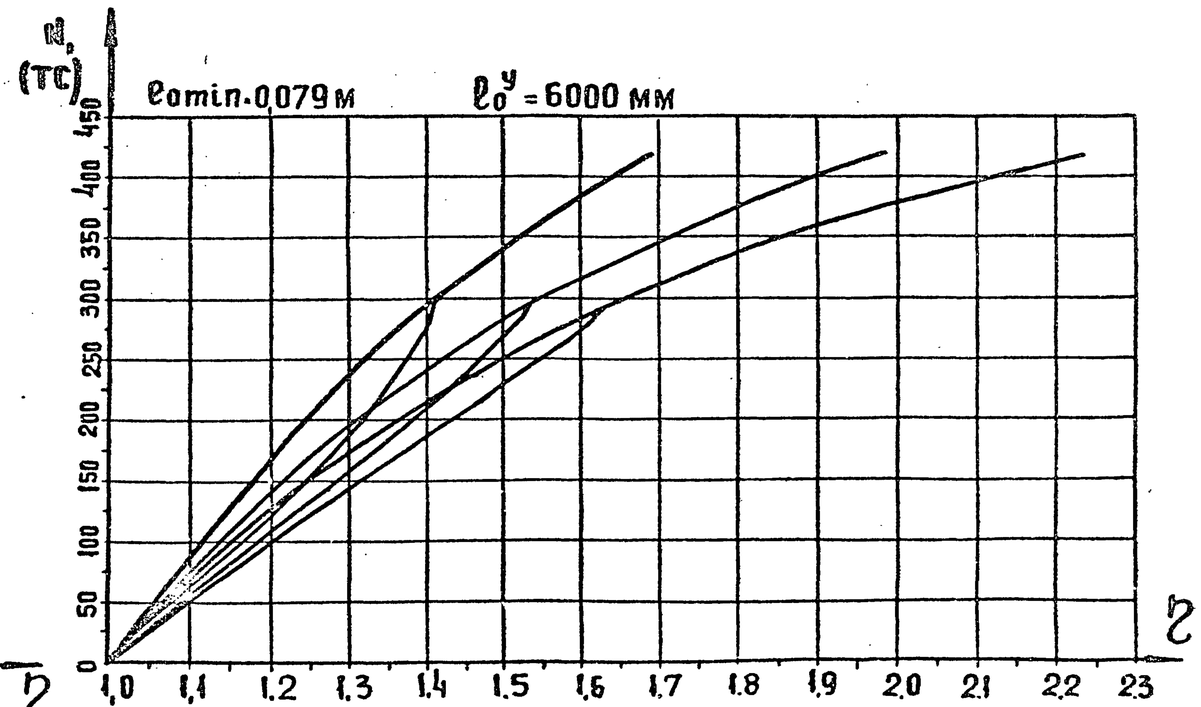

КЛАСС БЕТОНА В30 (Rв=15,3 МПа ПРИ УЧЕТЕ γв2=0,90)

Инв. № подл. | Подп. и дата | Взам. инв. №

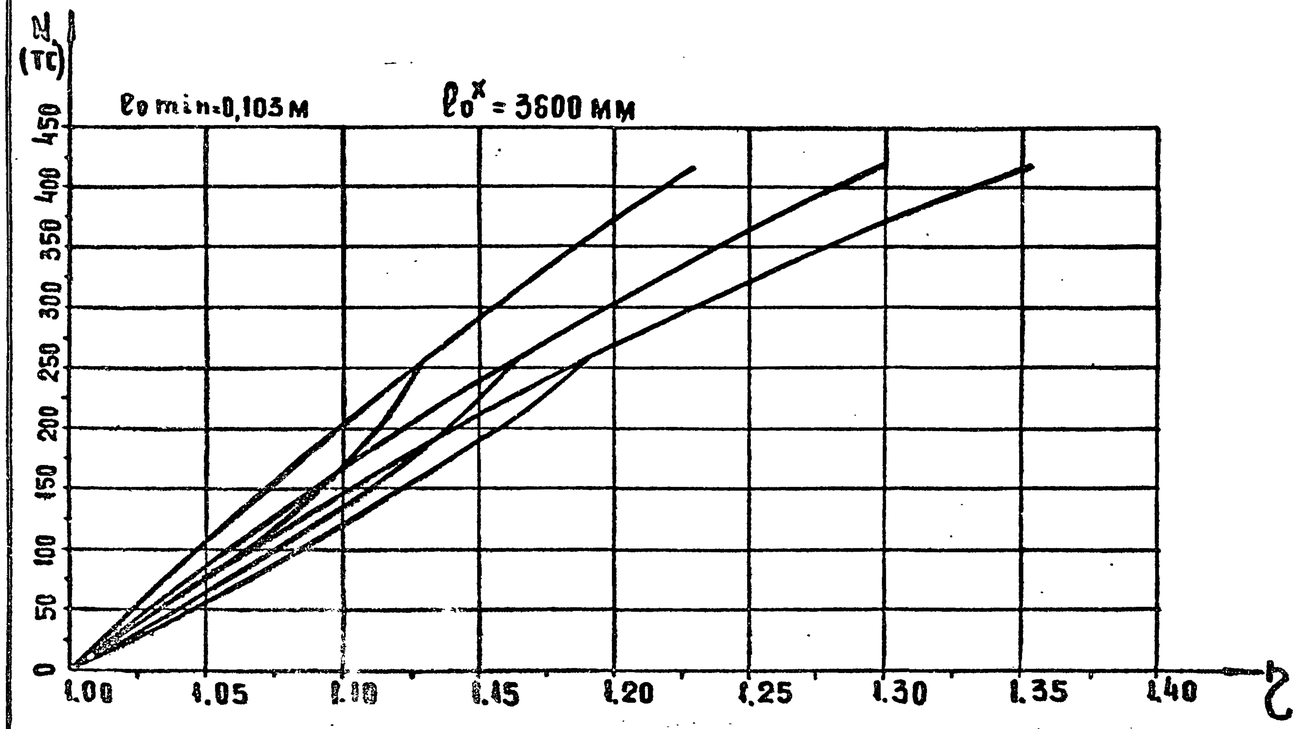


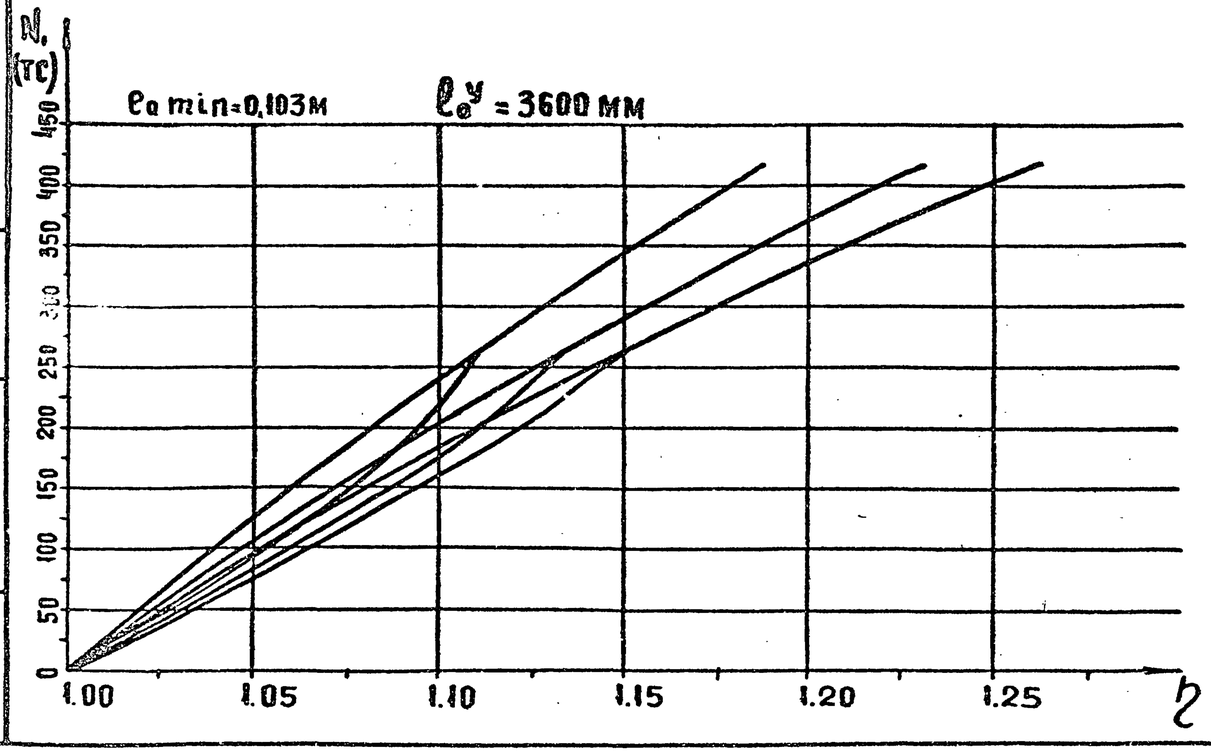



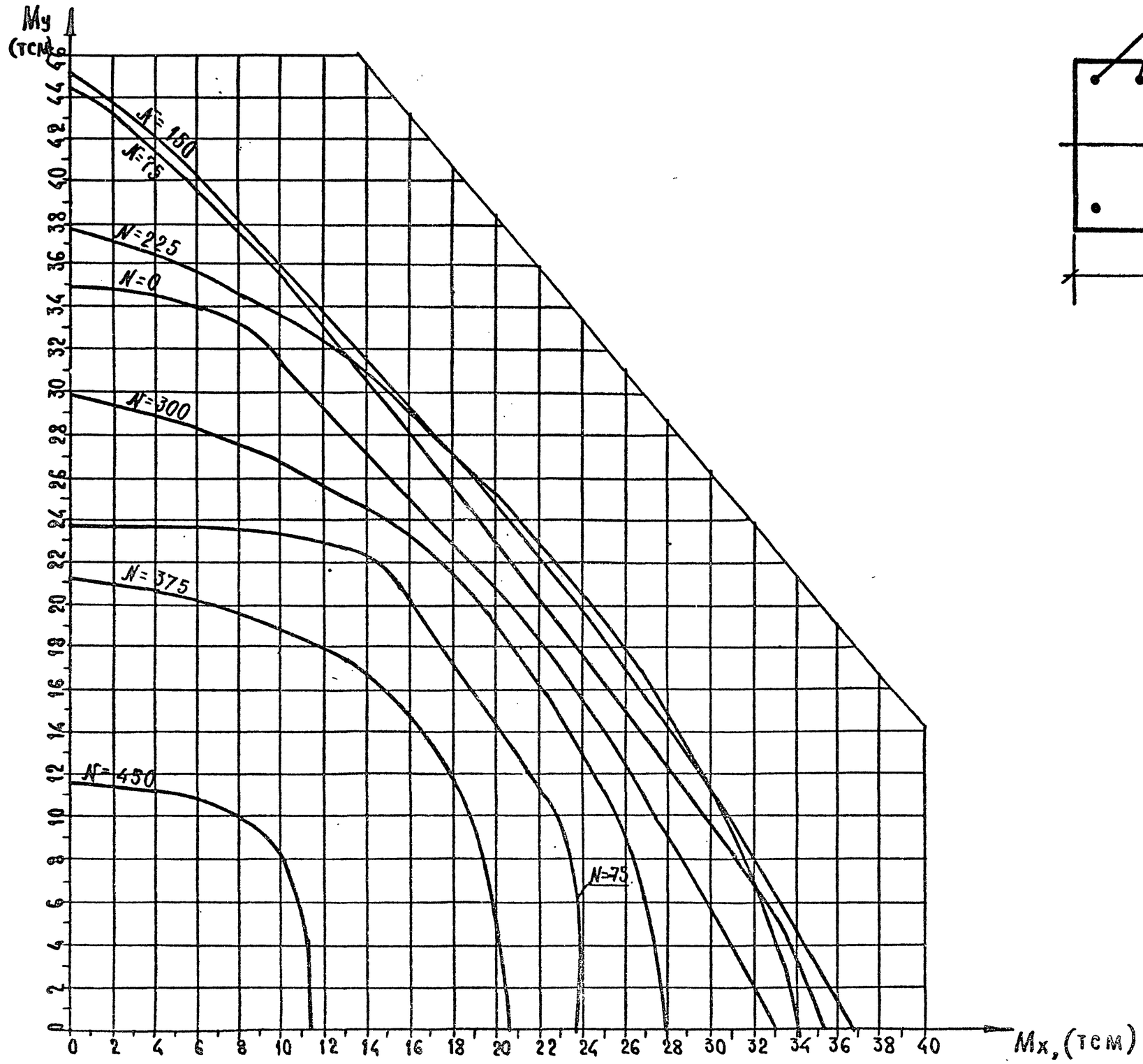



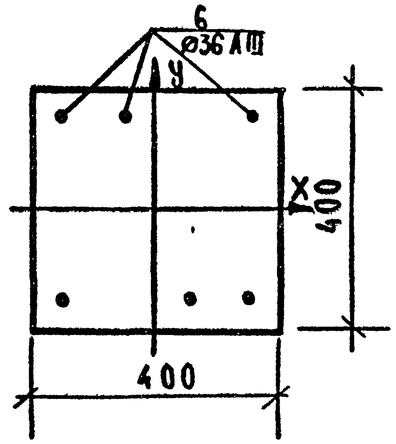

Инв. № подл. | Подп. и дата | Взам. инв. №




Инв. № подл. | Подп. и дата | Взам. инв. №




Класс бетона В30 ($R_в$=18,7 МПа при учете $\gamma_{в2}$=1,10)

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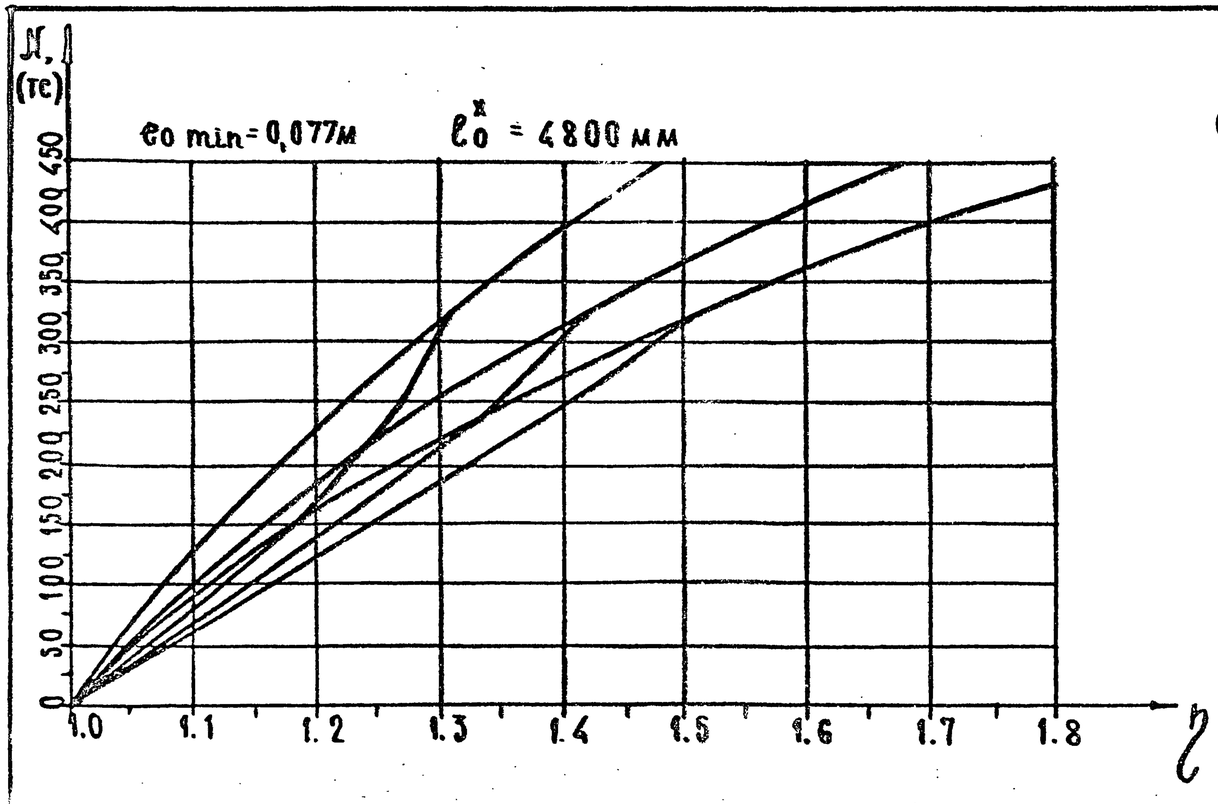
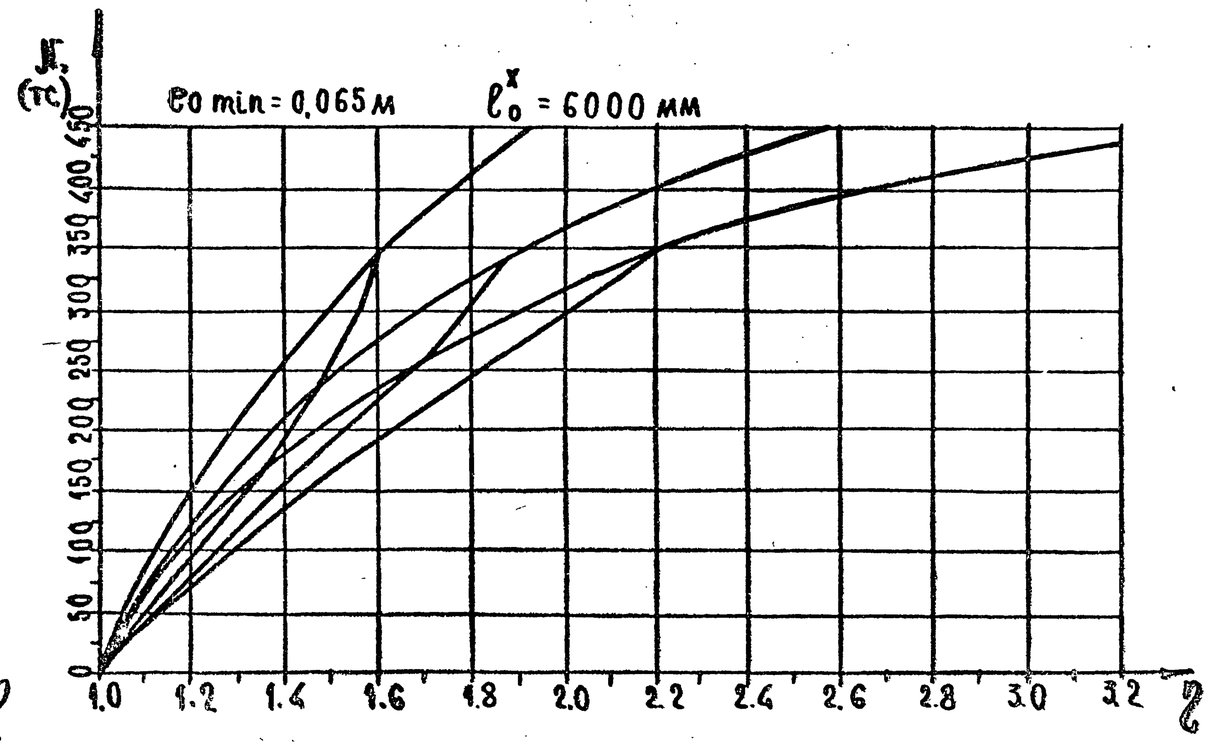
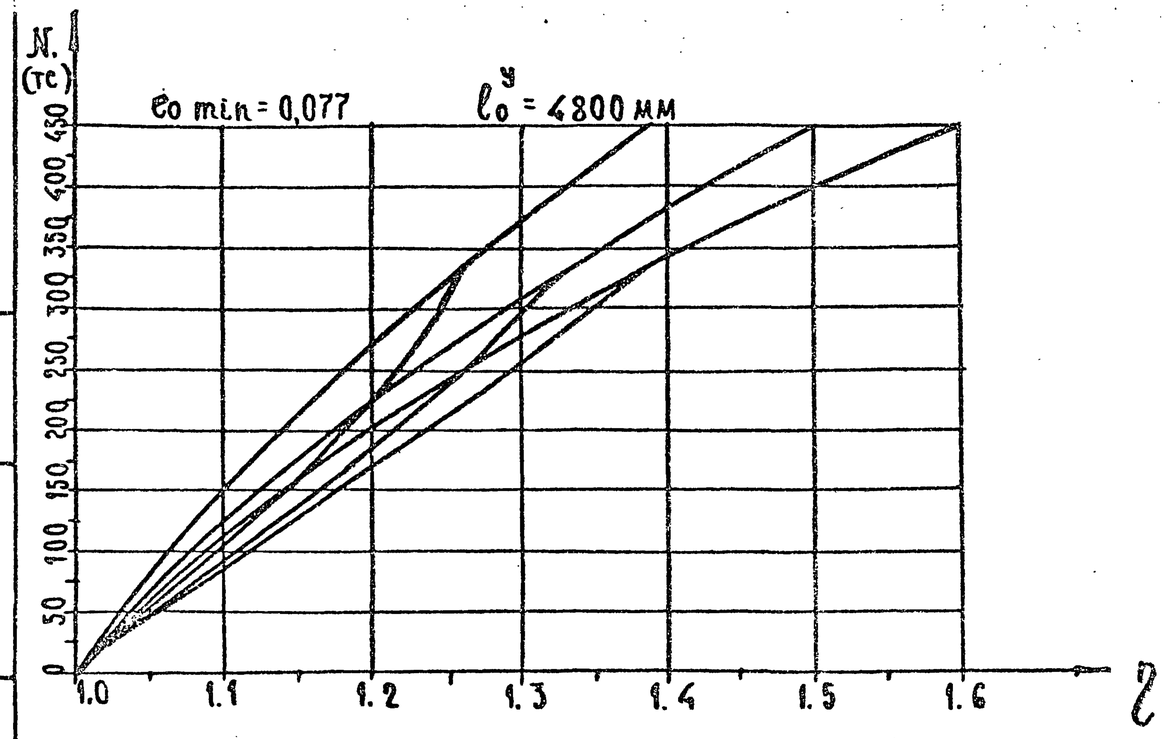
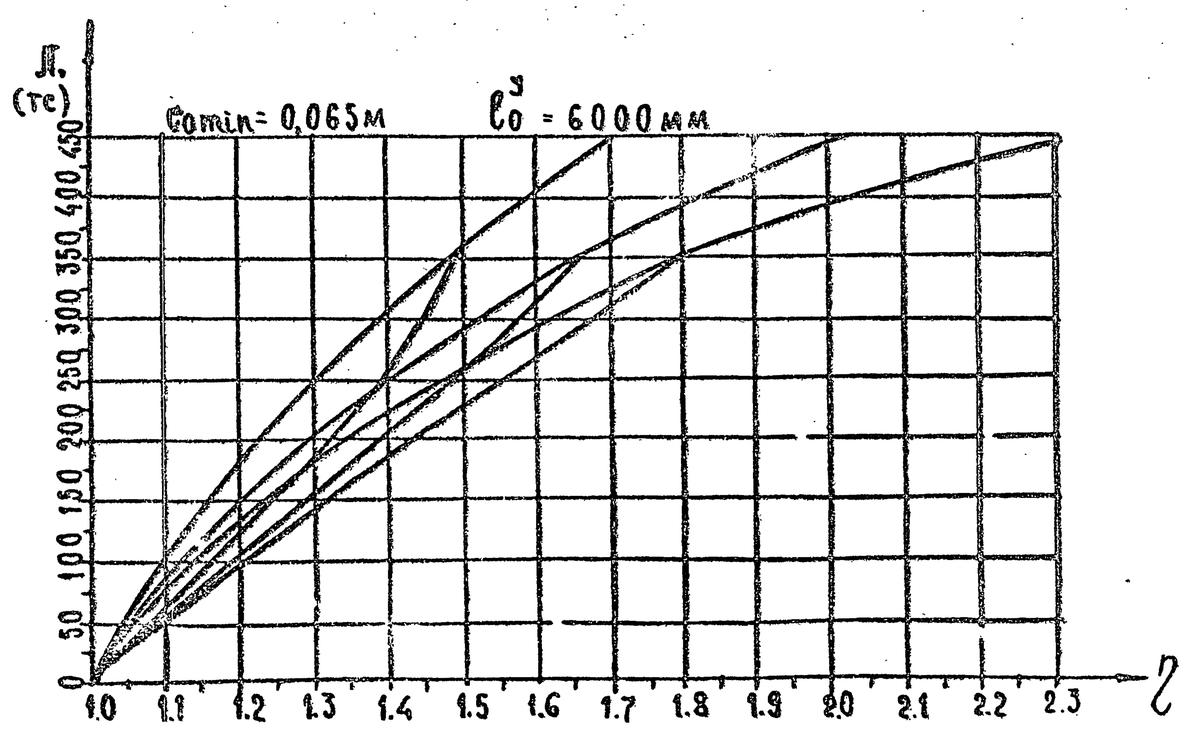
|---|---|
| 1.020-1/87. 0-6(дополнение 1)- 2П3 | Лист 26 |

Инв. № подл. | Подпись и дата | Взам. инв. №

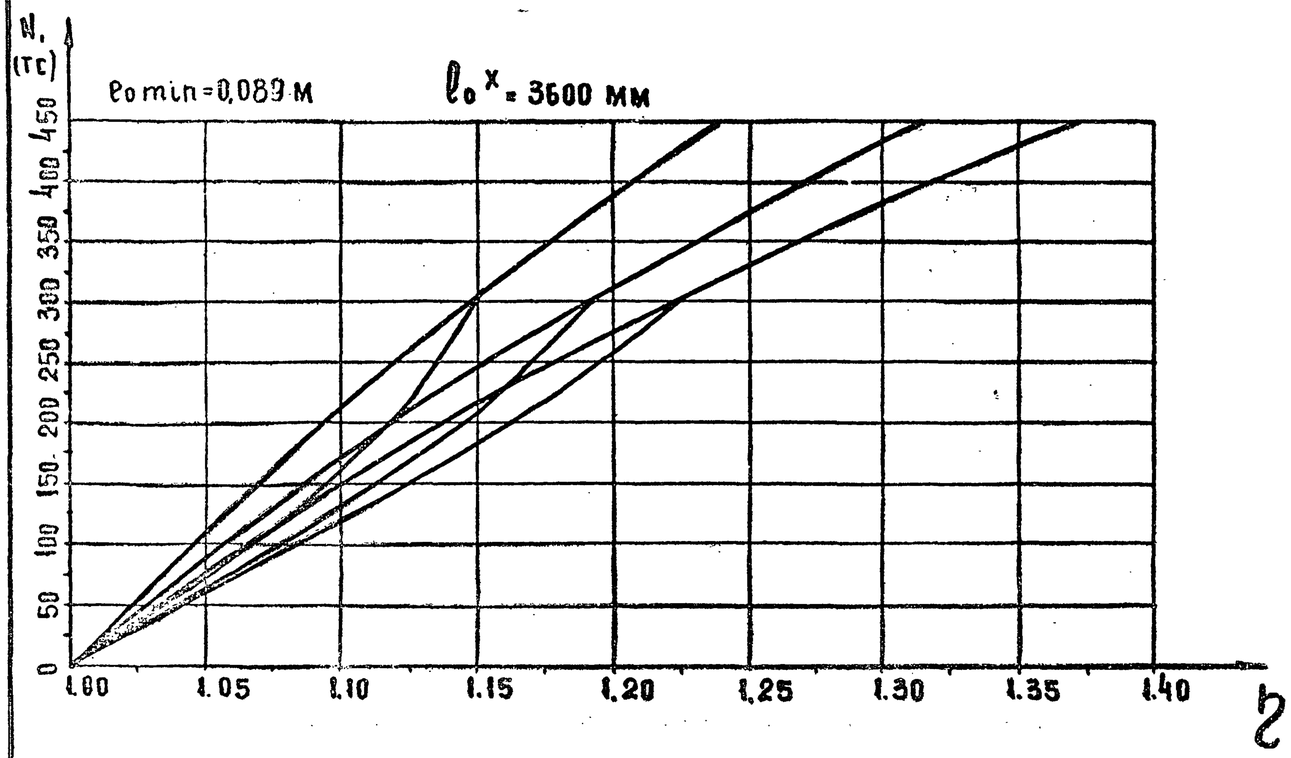


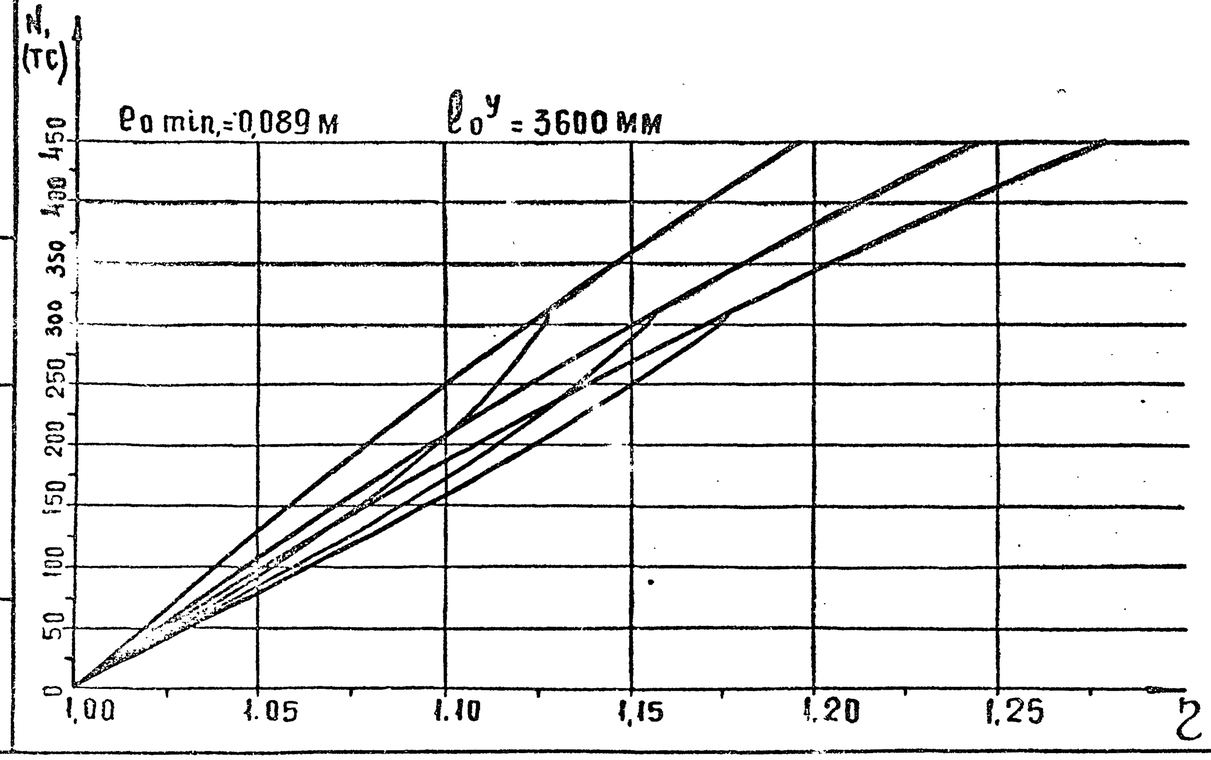



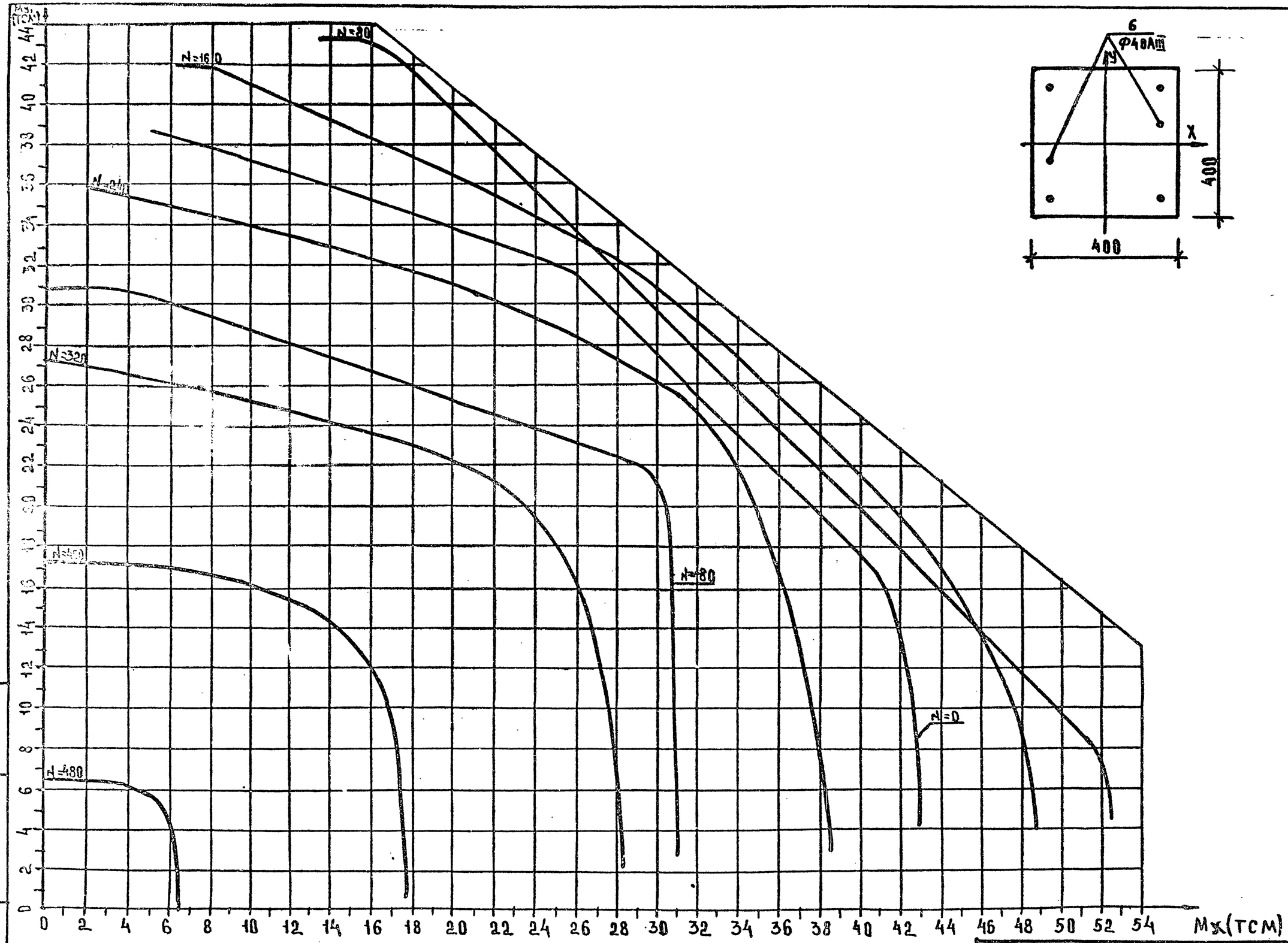




Инв.№ подл. | Подпись и дата | Взам. инв.№


N, (тс)
ρo min=0,089 м
$l_o^x$ = 3600 мм
0
50
100
150
200
250
300
350
400
450
1.00
1.05
1.10
1.15
1.20
1.25
1.30
1.35
1.40
η


N, (тс)
ρo min,=0,089 м
$l_o^y$ = 3600 мм
0
50
100
150
200
250
300
350
400
450
1.00
1.05
1.10
1.15
1.20
1.25
η




КЛАСС БЕТОНА В30 ($R_B$=15, 3МПа ПРИ УЧЕТЕ $\gamma_{B2}$=0,90)

ИНВ.№ПОДЛ. | ПОДП. И ДАТА | ВЗАМ.ИНВ.№

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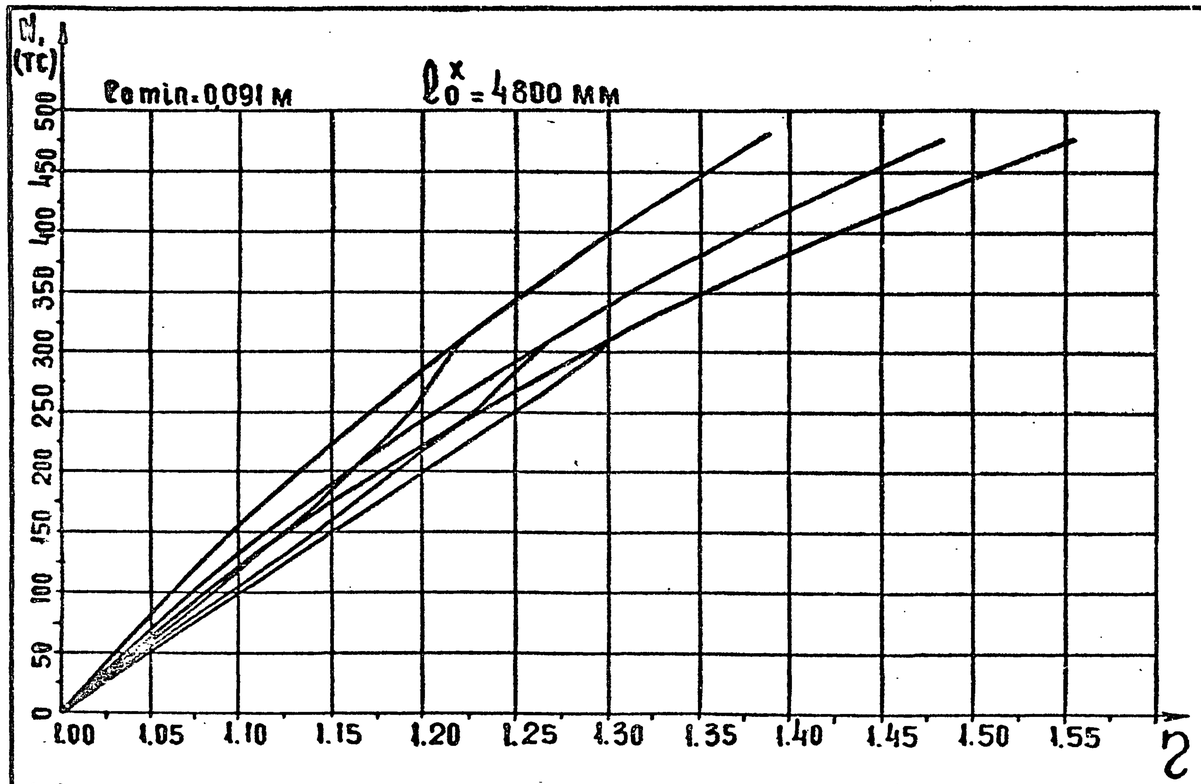
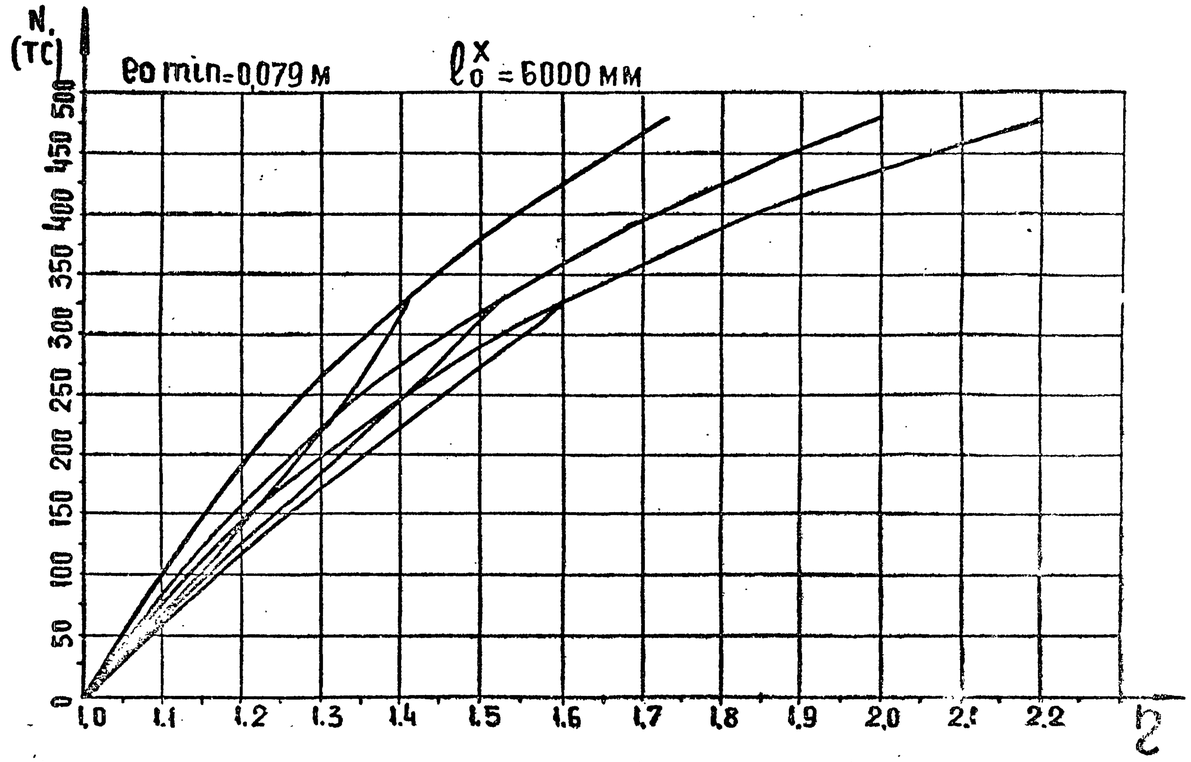
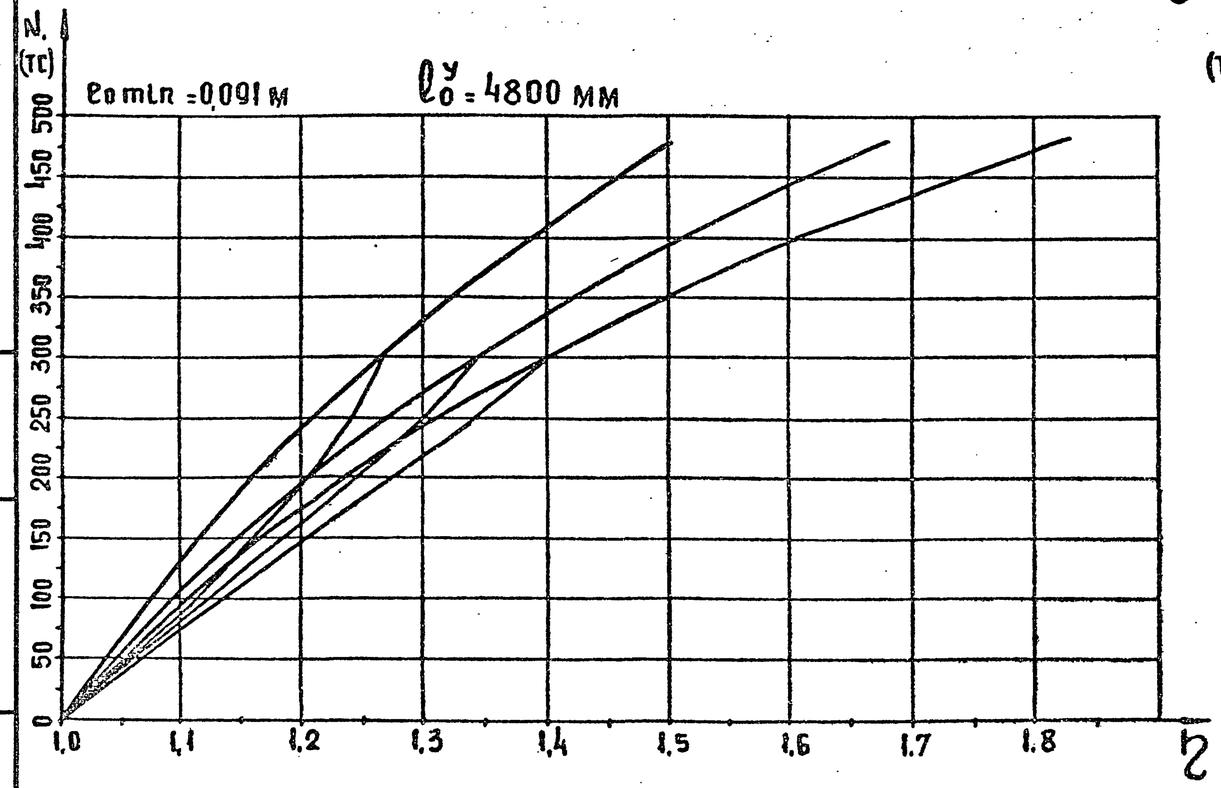
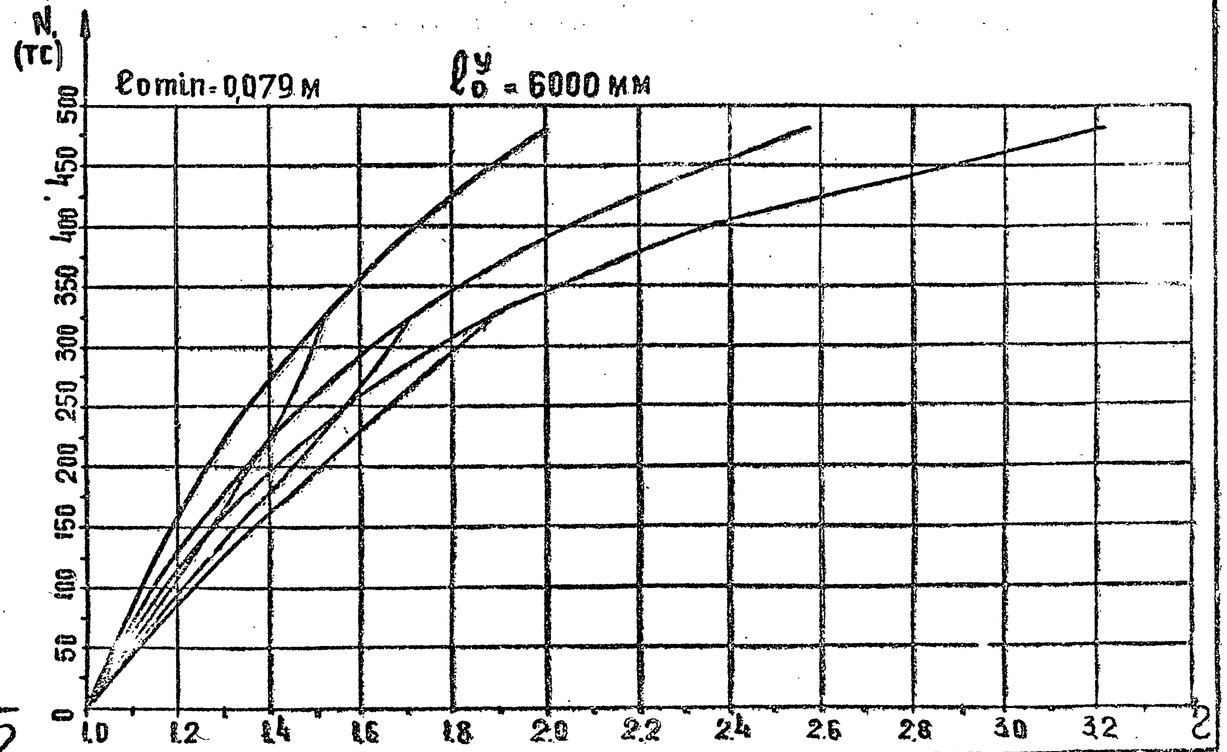
|---|---|
| 1.020-1/87.0-6(дополнение 1)-2ПЗ | ЛИСТ 29 |

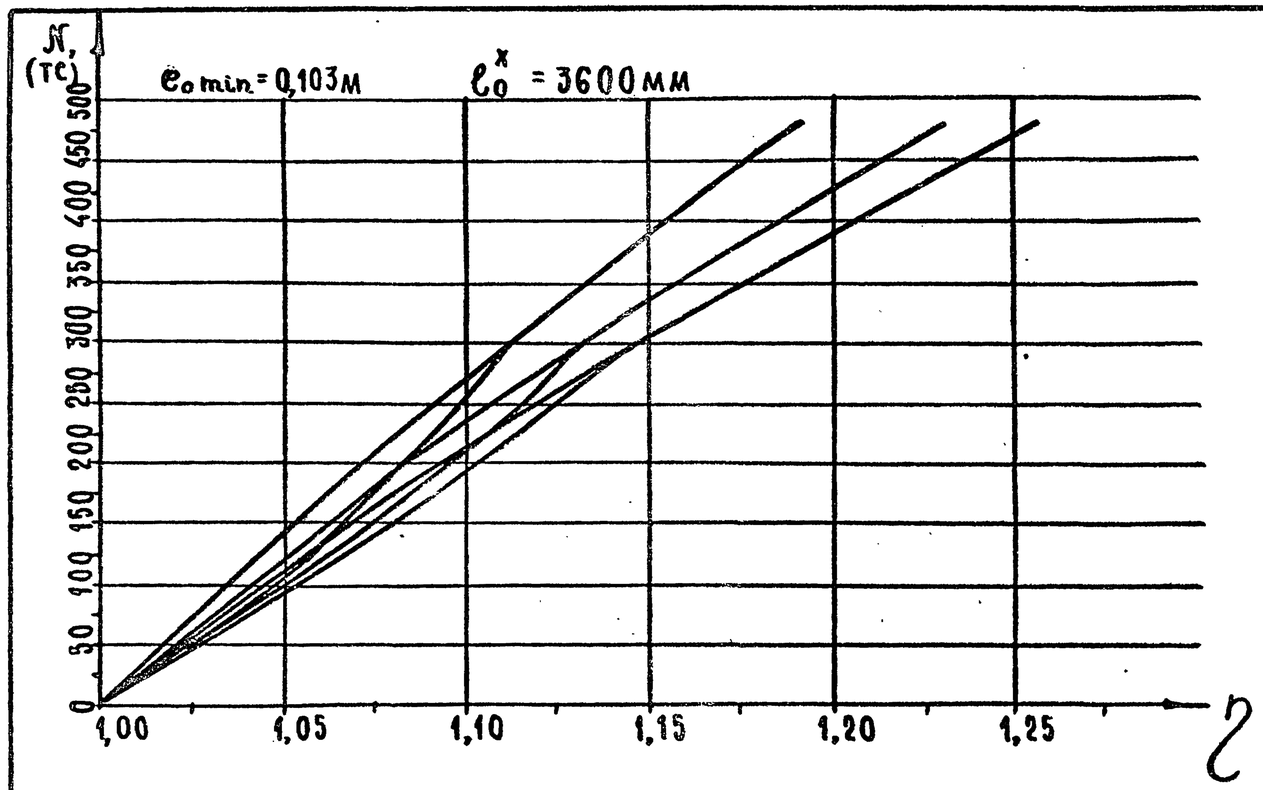


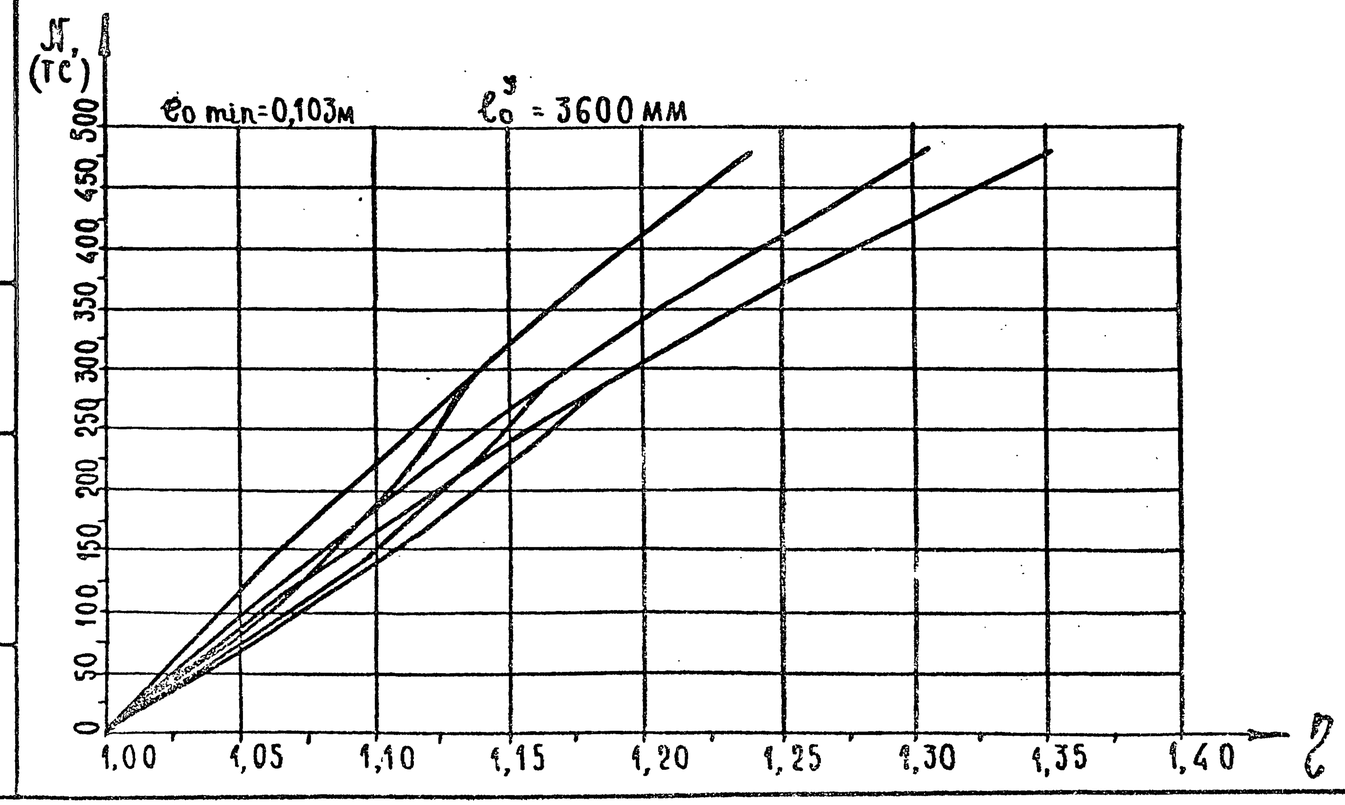



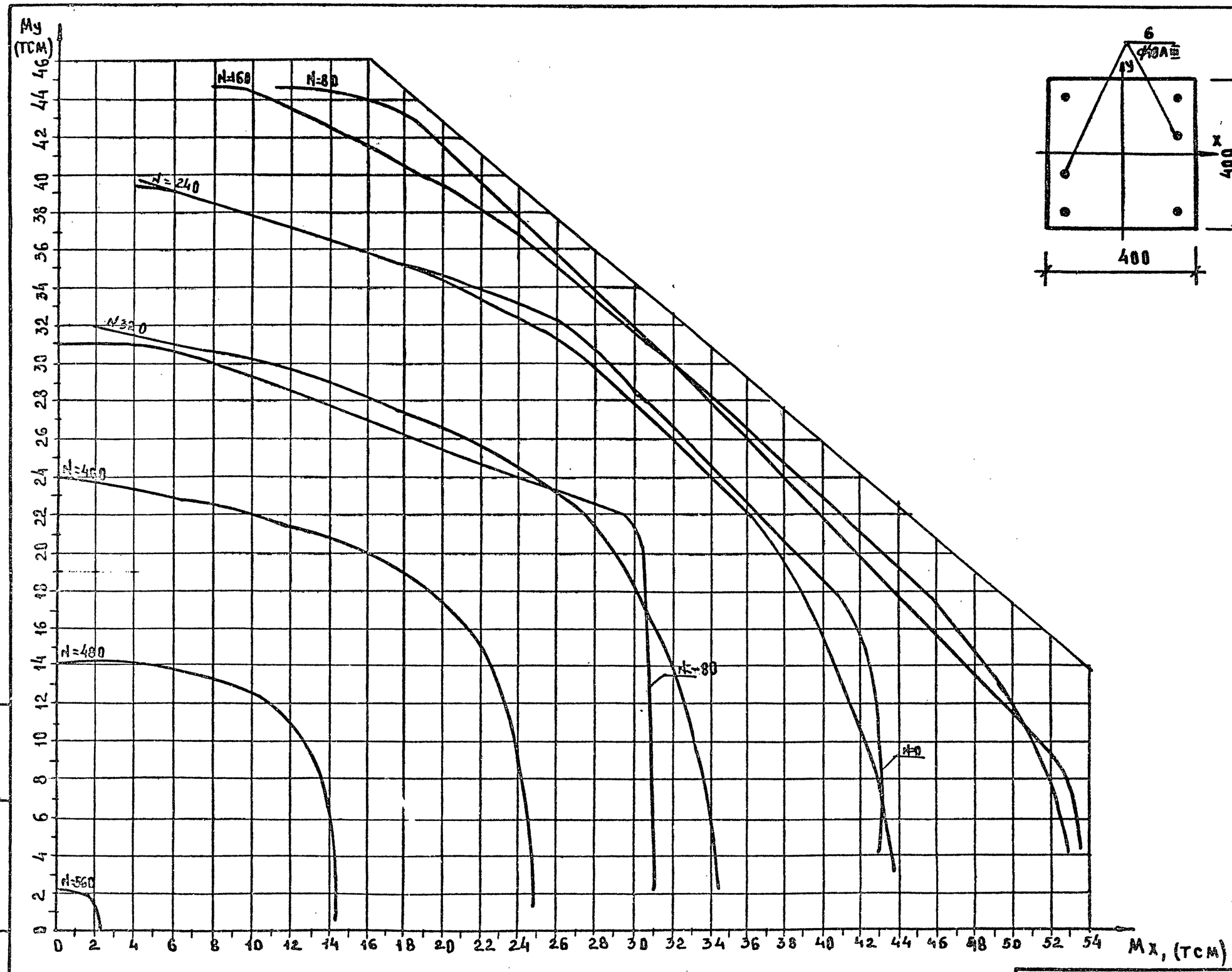



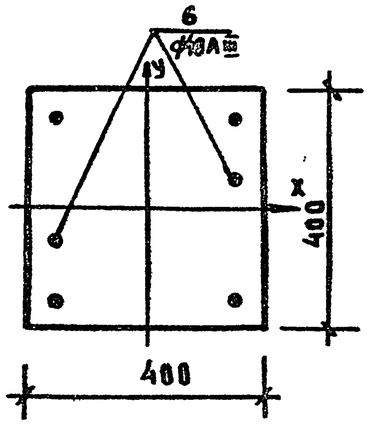

| Инв. N подл. | Подп. и дата | Взам. инв. N |
|---|---|---|



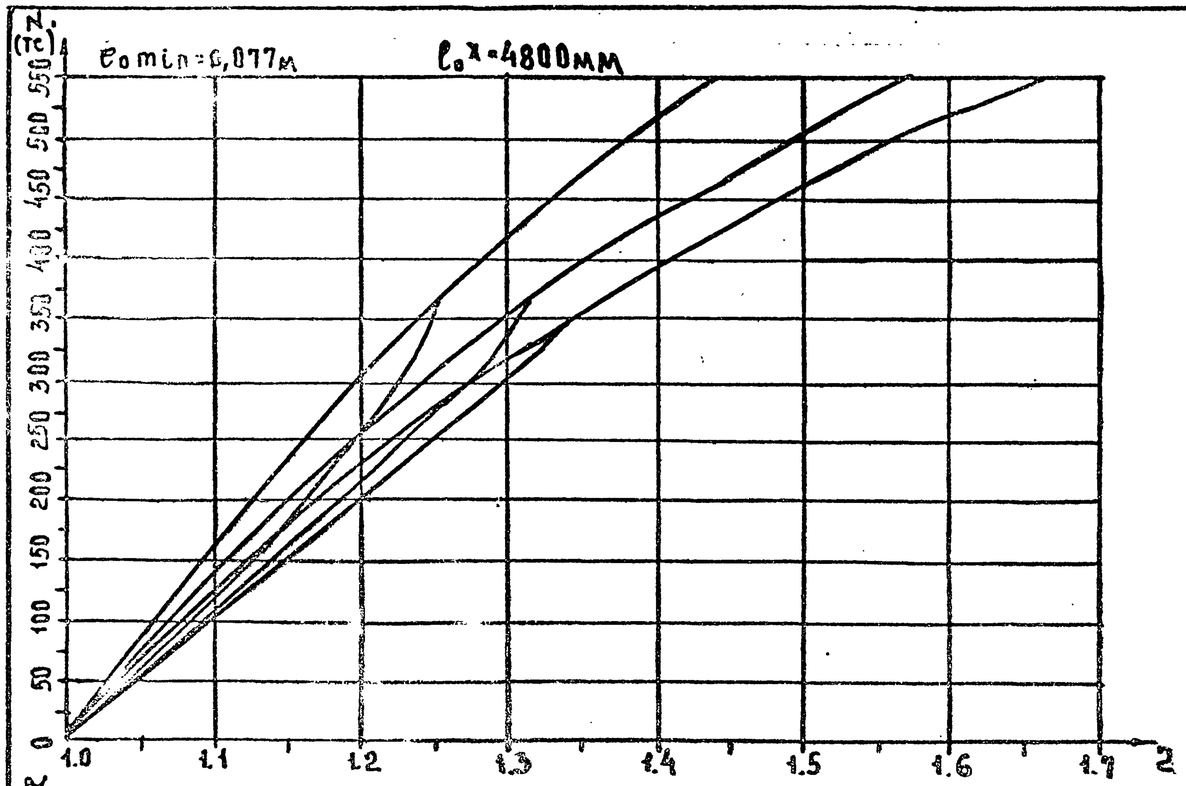

Инв. № подл. | Подпись и дата | Взам. инв. №

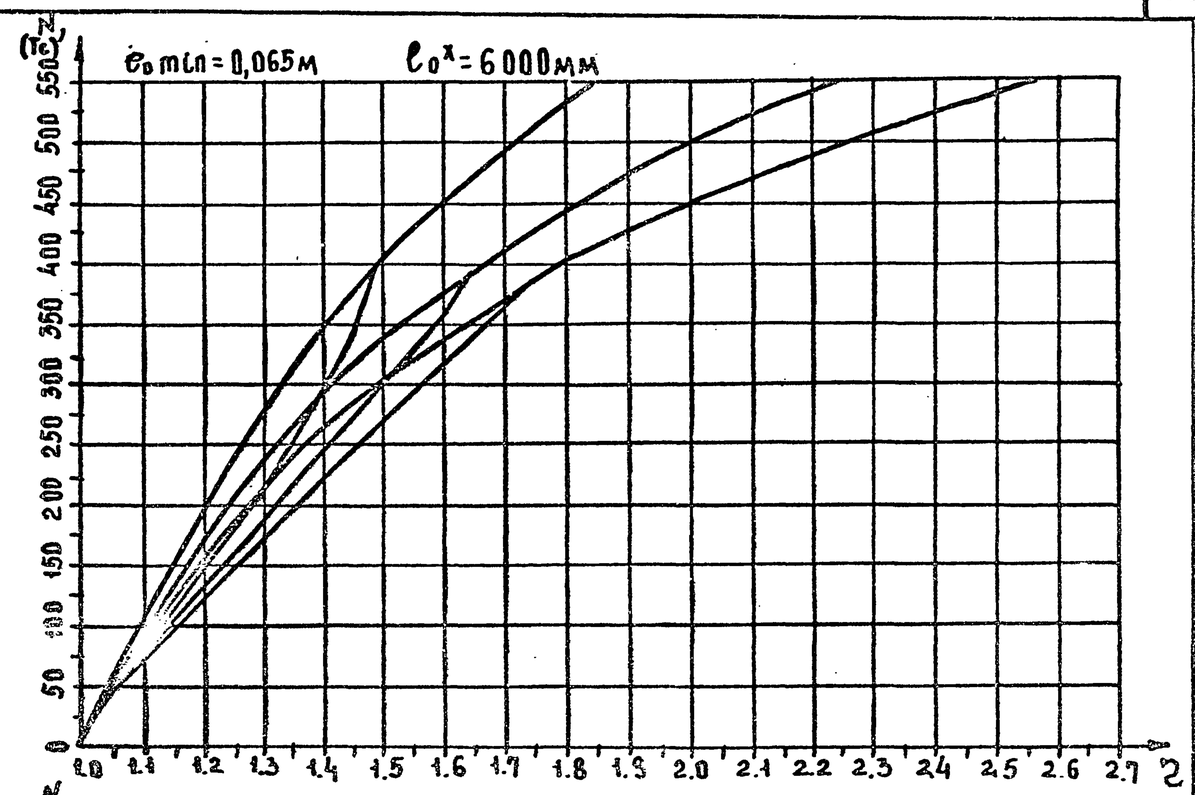


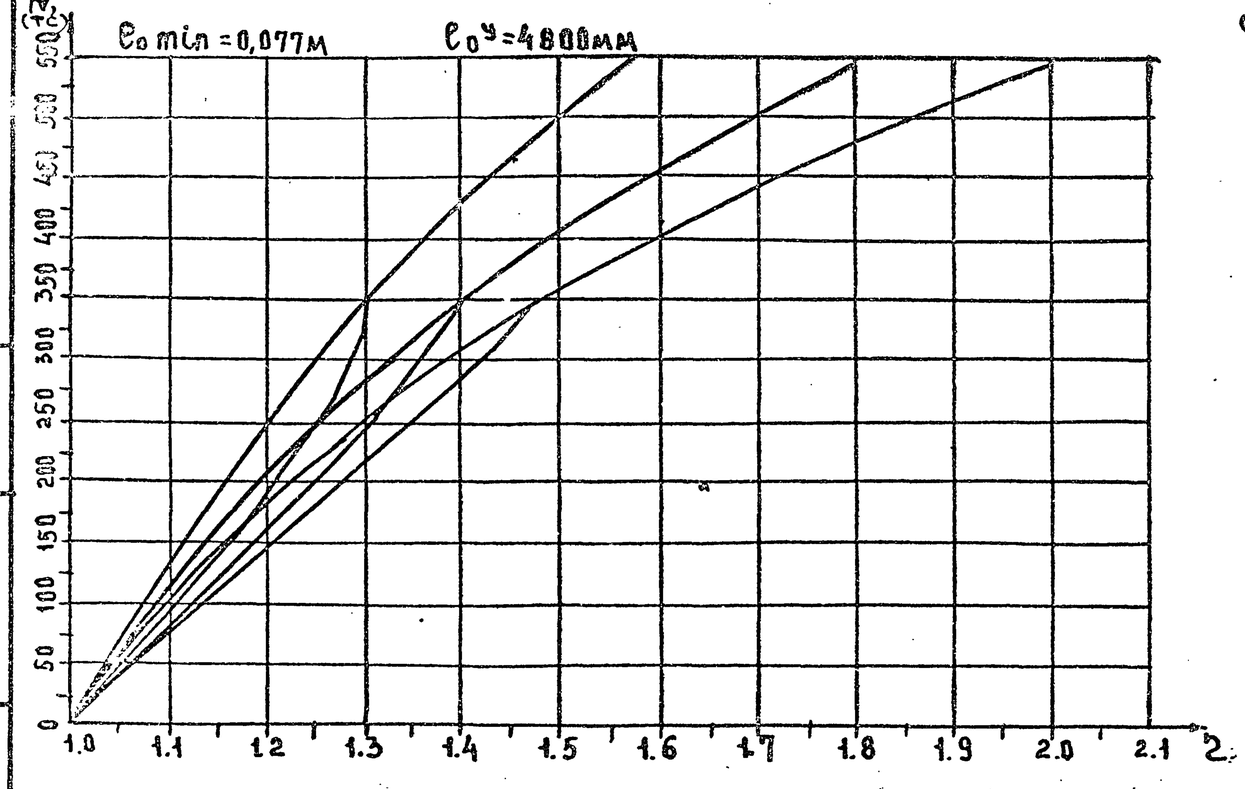



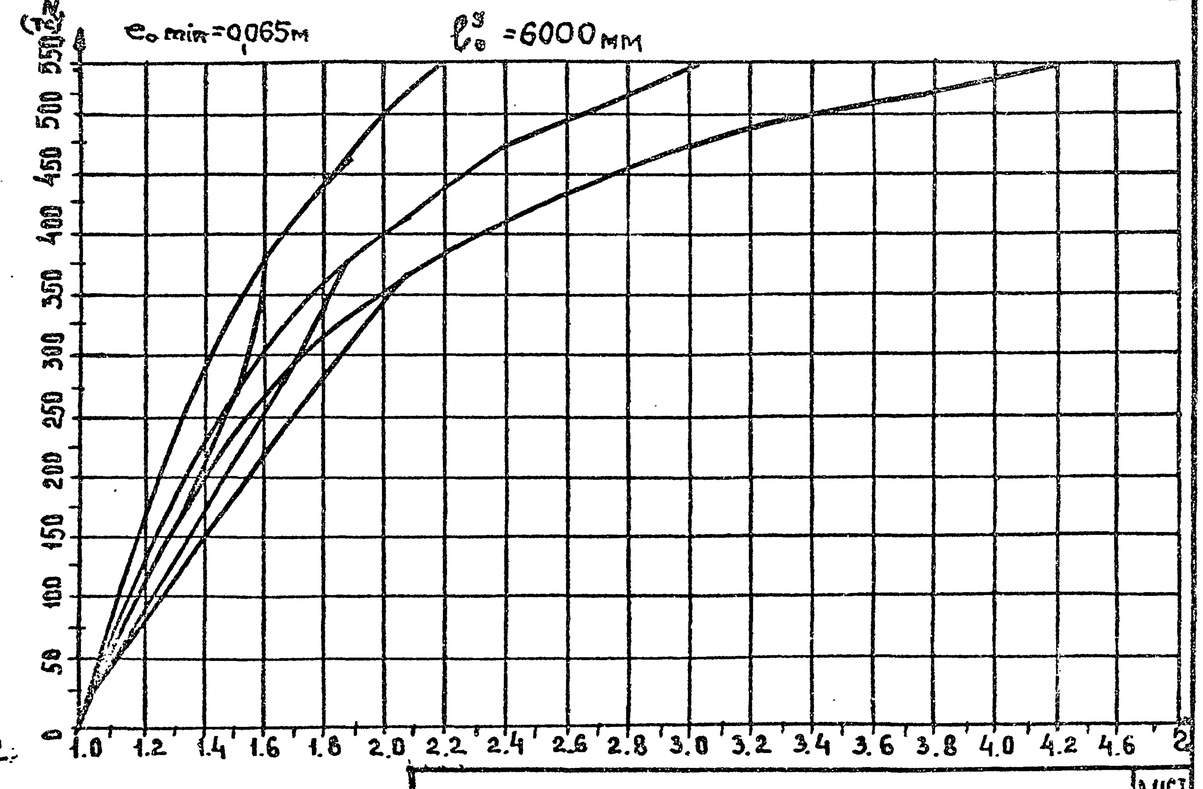

КЛАСС БЕТОНА В30 ($R_B$=18,7МПА ПРИ УЧЕТЕ $\gamma_{B2}$=1,10)

1.020-1/87.0-6(ДОПОЛНЕНИЕ 1)-2ПЗ

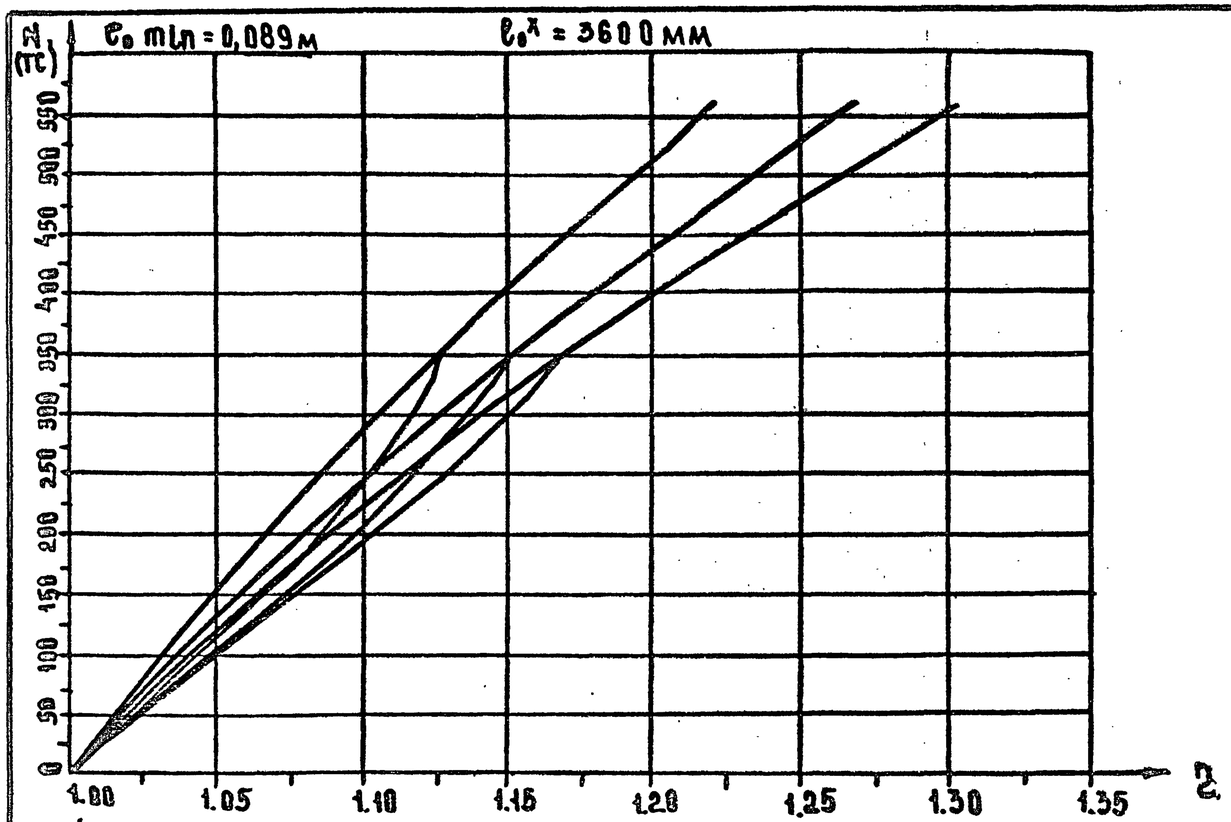


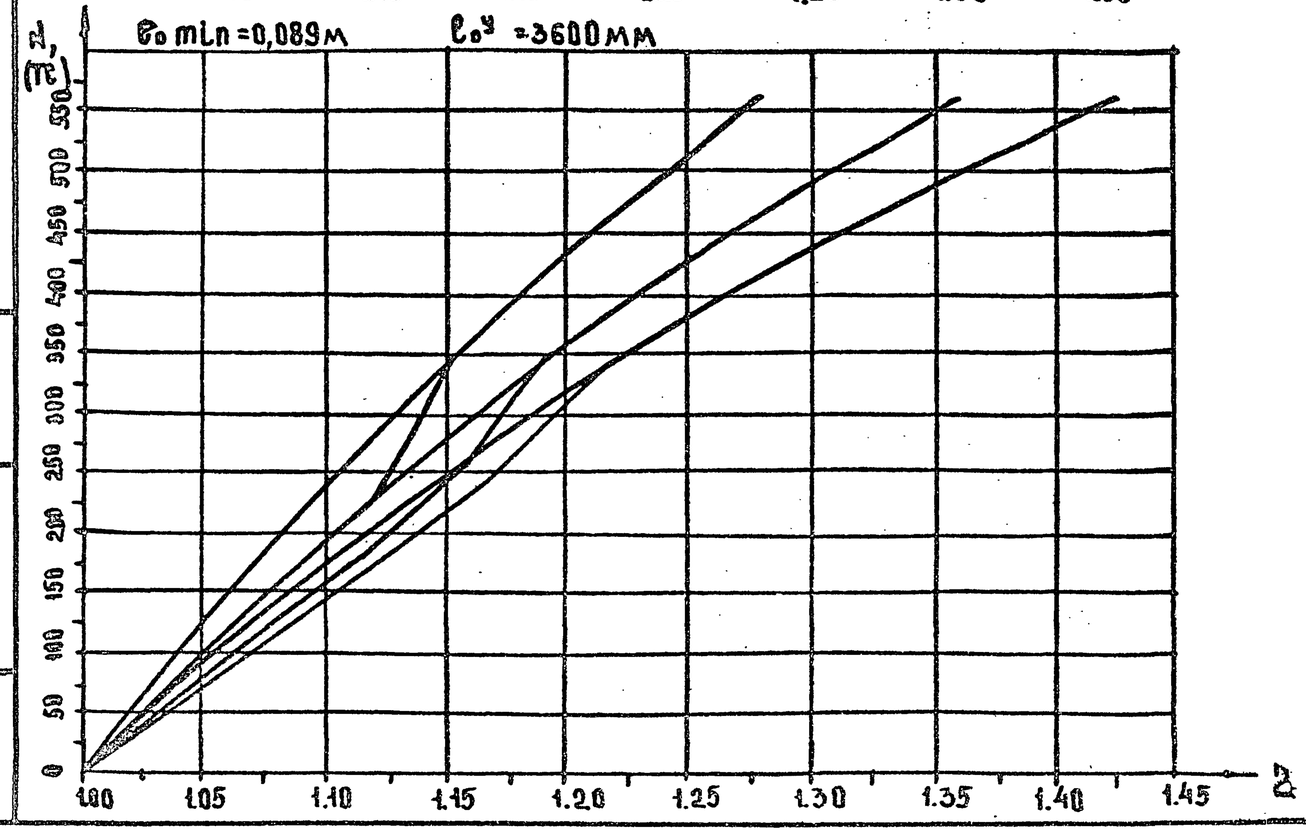



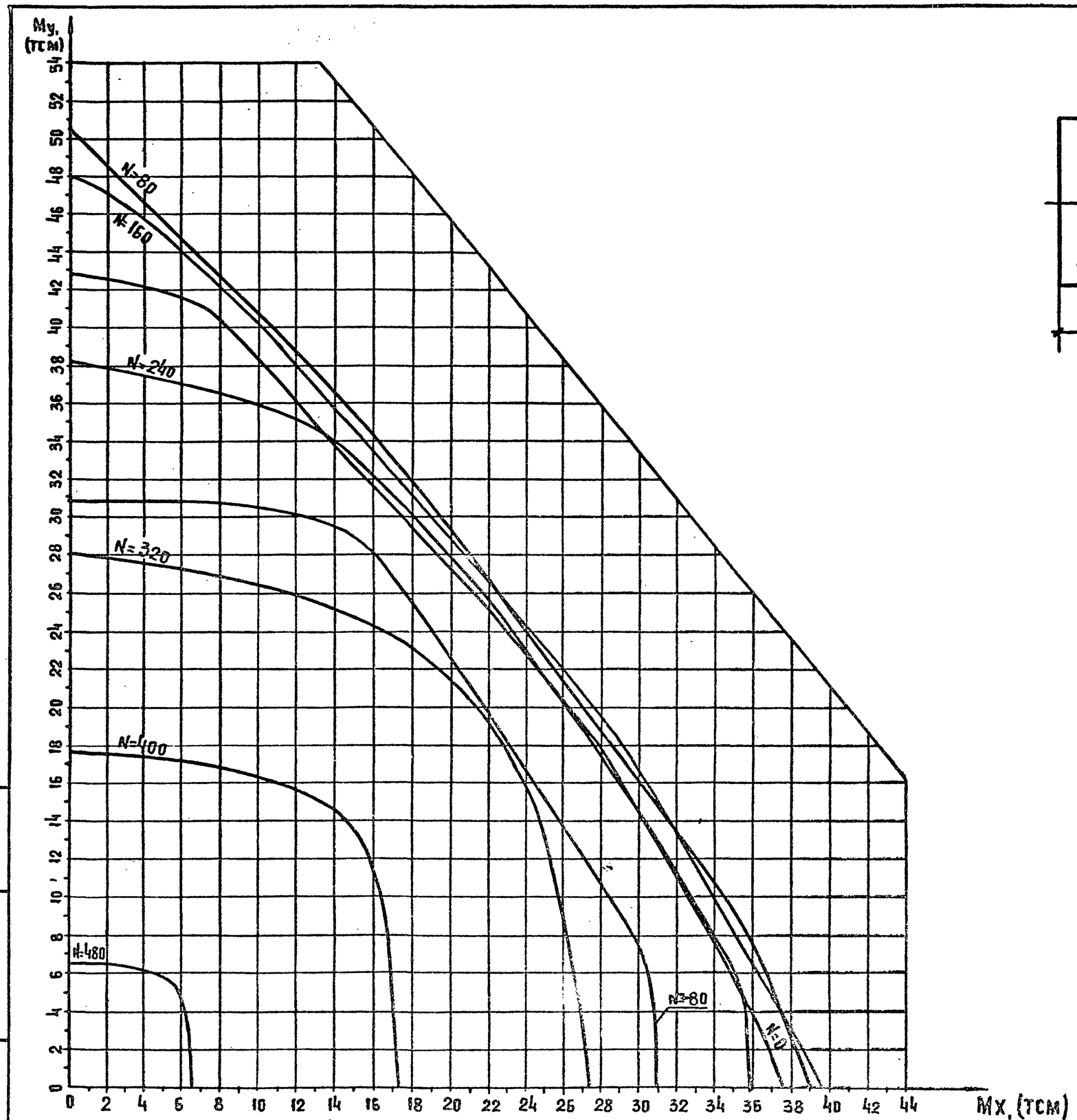



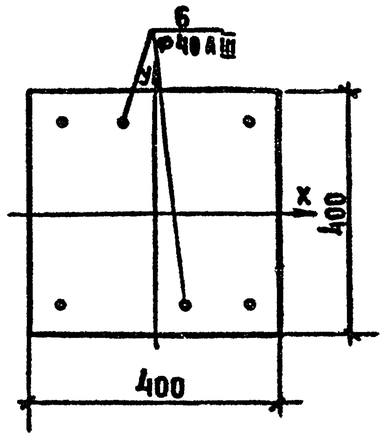

Инв.№ подл. | Подп. и дата | Взам.инв.№




Инв.№ подл. | Подп. и дата | Взам. инв.№




КЛАСС БЕТОНА В30 (RB=15,3 МПА ПРИ УЧЕТЕ γB2=0,90)

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| Инв. № подл. | Подпись и дата | Взам. инв. № | |

1.020-1/87.0-6(ДОПОЛНЕНИЕ 1)-2ПЗ

Лист 35

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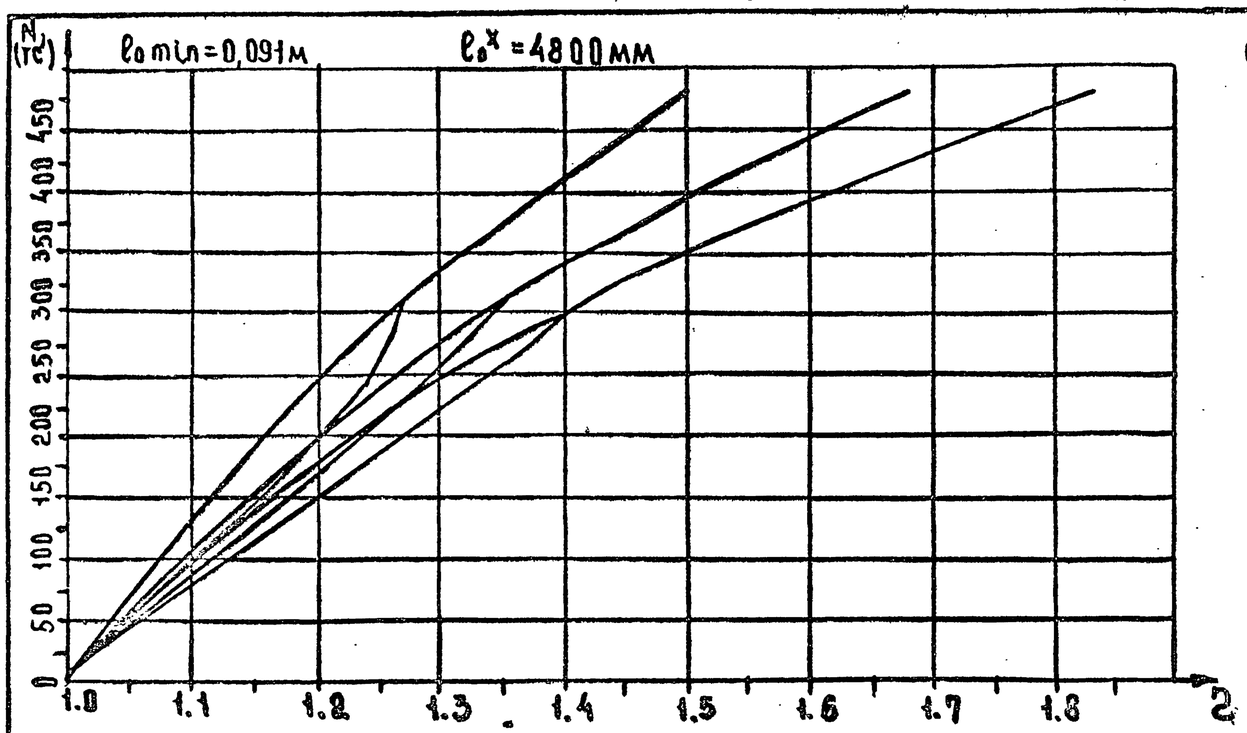
N (тс)
$l_0$ min=0,091м
$l_0^x$=4800мм
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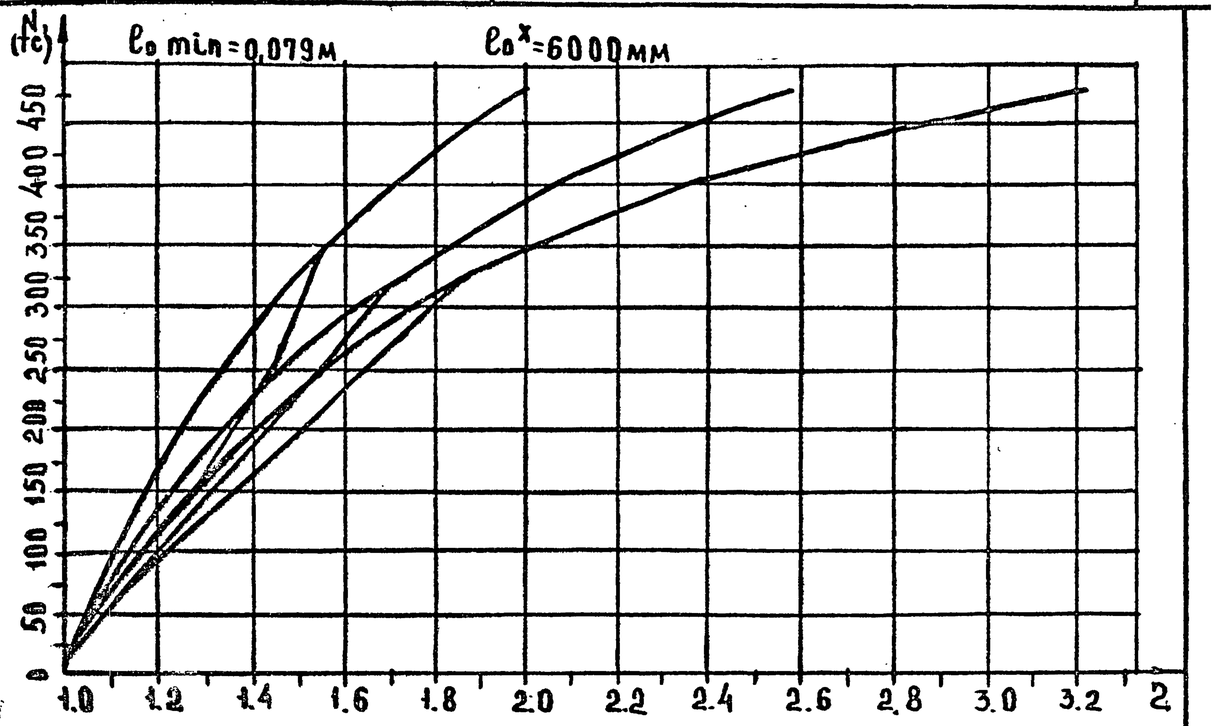
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8
λ


N (тс)
$l_0$ min=0,079м
$l_0^x$=6000мм
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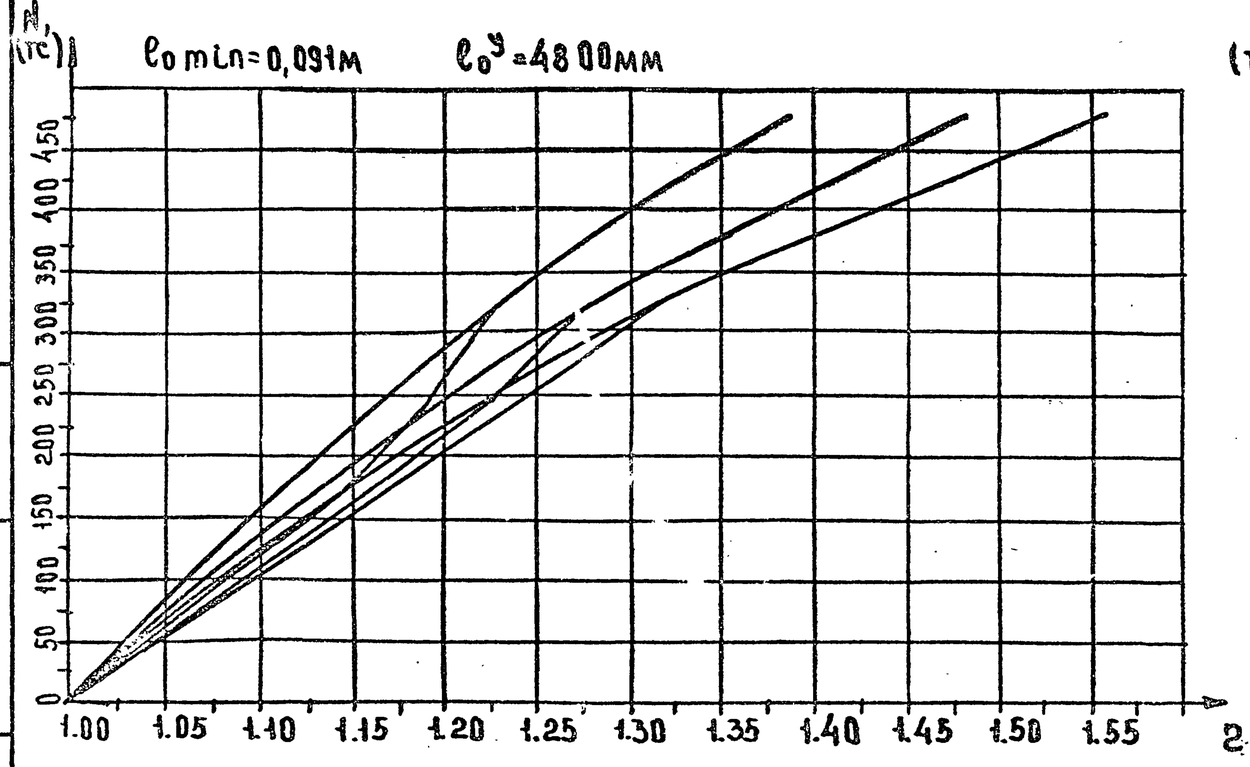
1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2
λ


N (тс)
$l_0$ min=0,091м
$l_0^y$=4800мм
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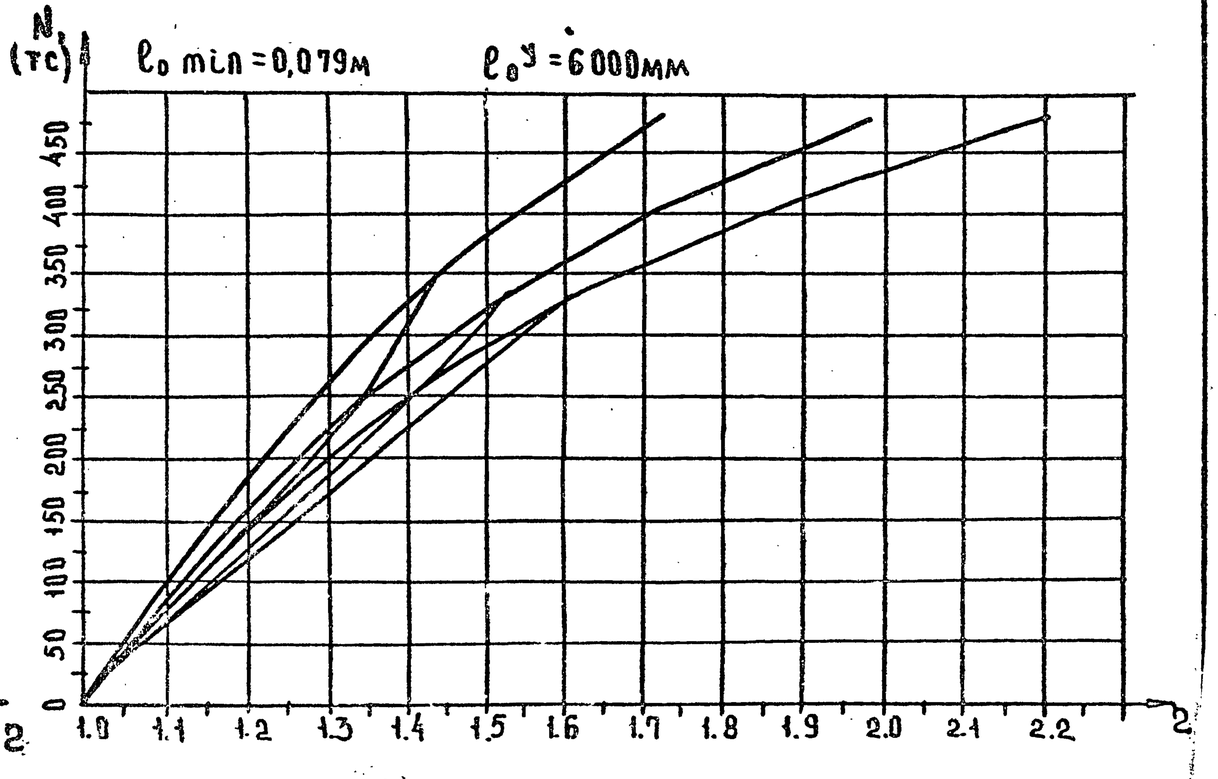
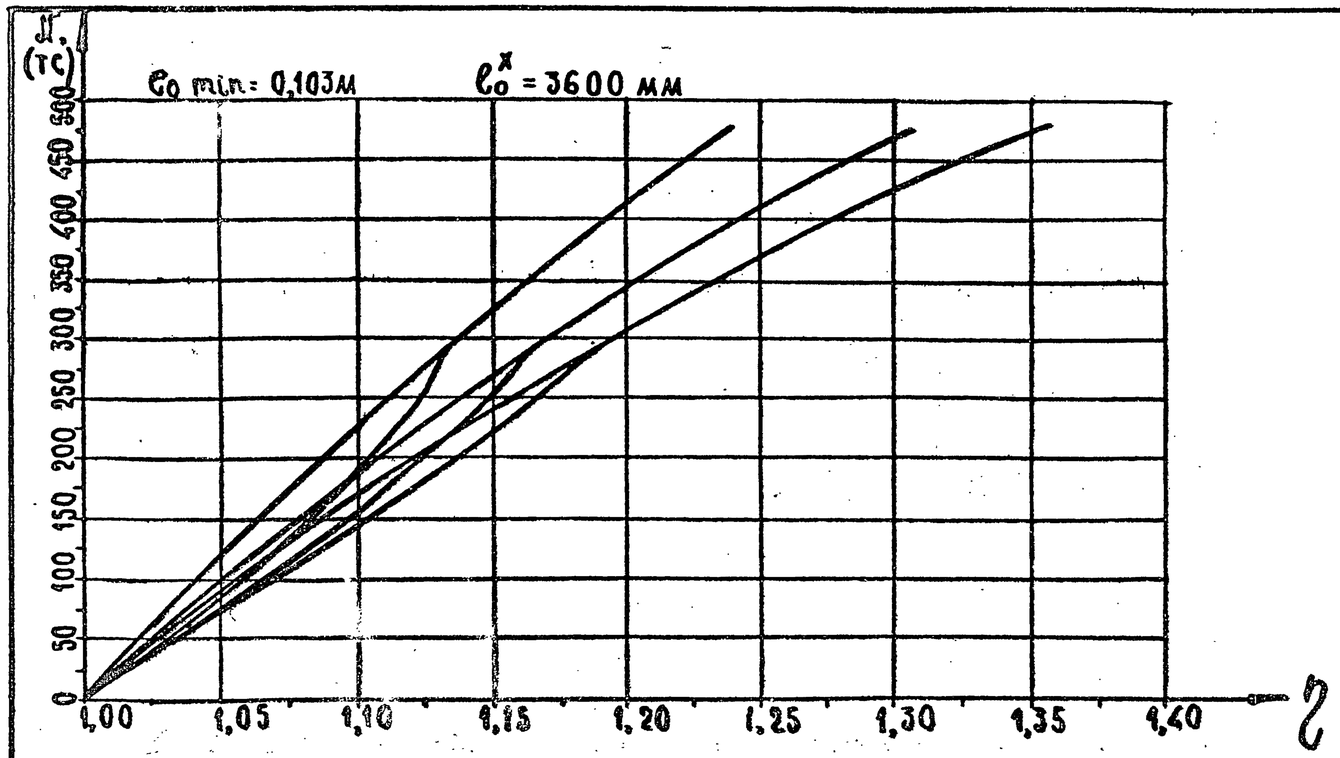
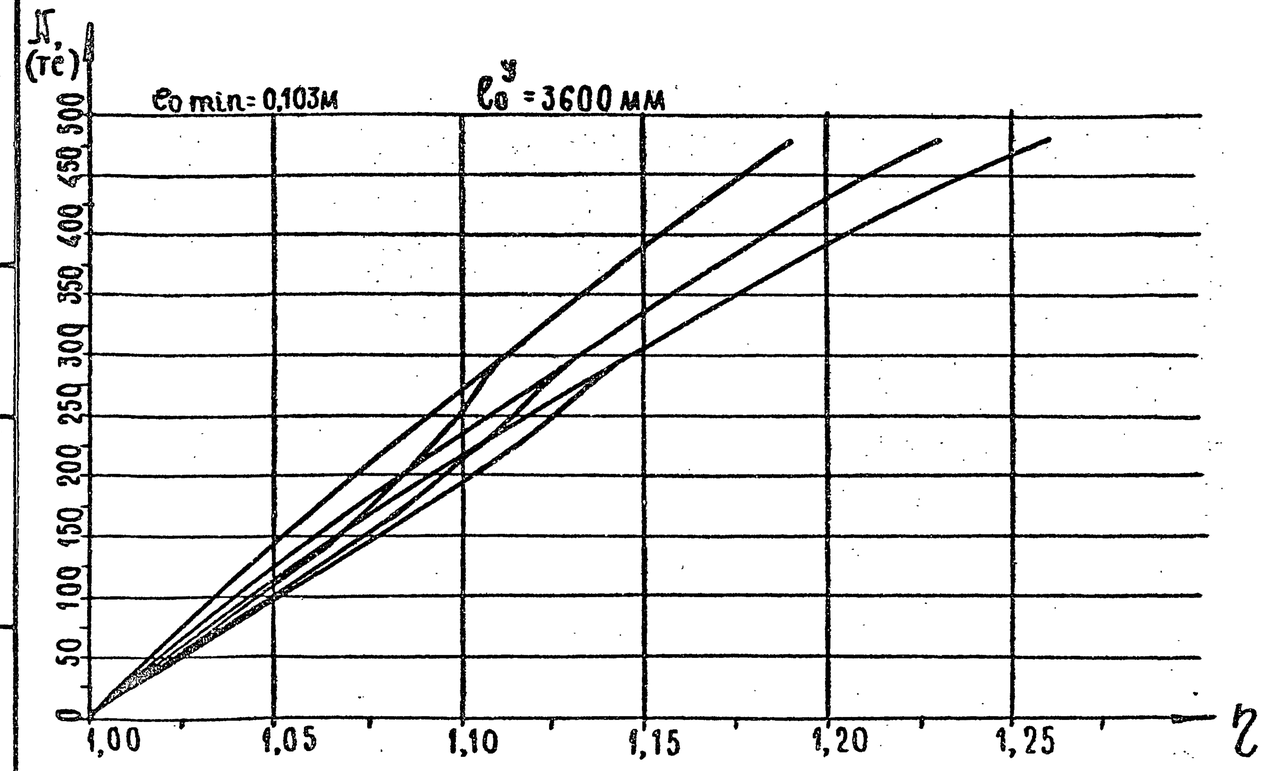
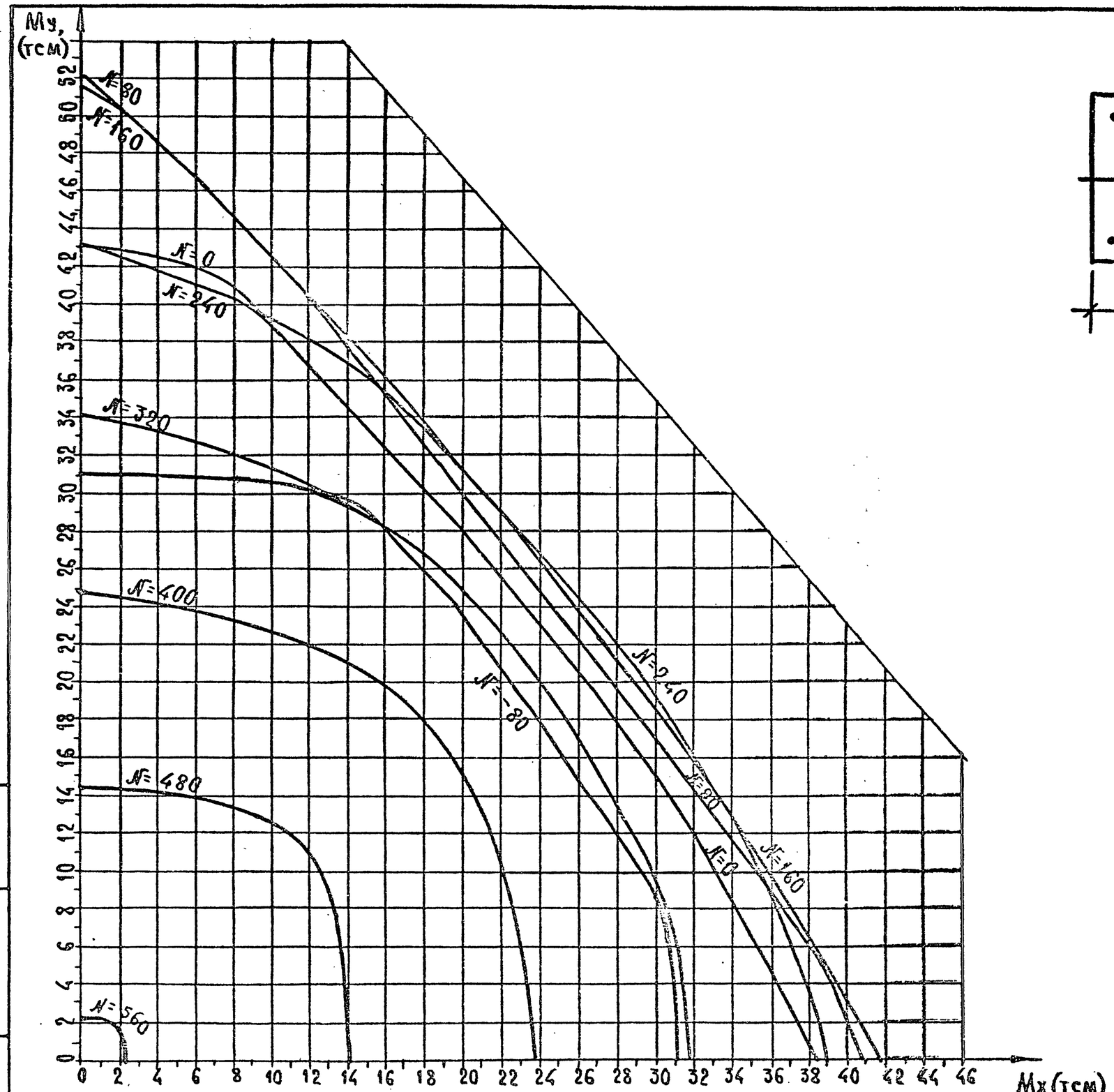
1.00 1.05 1.10 1.15 1.20 1.25 1.30 1.35 1.40 1.45 1.50 1.55
λ

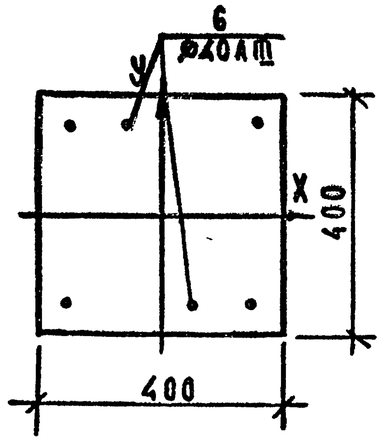

N (тс)
$l_0$ min=0,079м
$l_0^y$=6000мм
0 50 100 150 200 250 300 350 400 450
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2
λ




Инв.№ подл. | Подпись и дата | Взам. инв.№




Класс бетона В30 ($R_в$ = 18,7 МПа при учете $\gamma_{в2}$ = 1,10)

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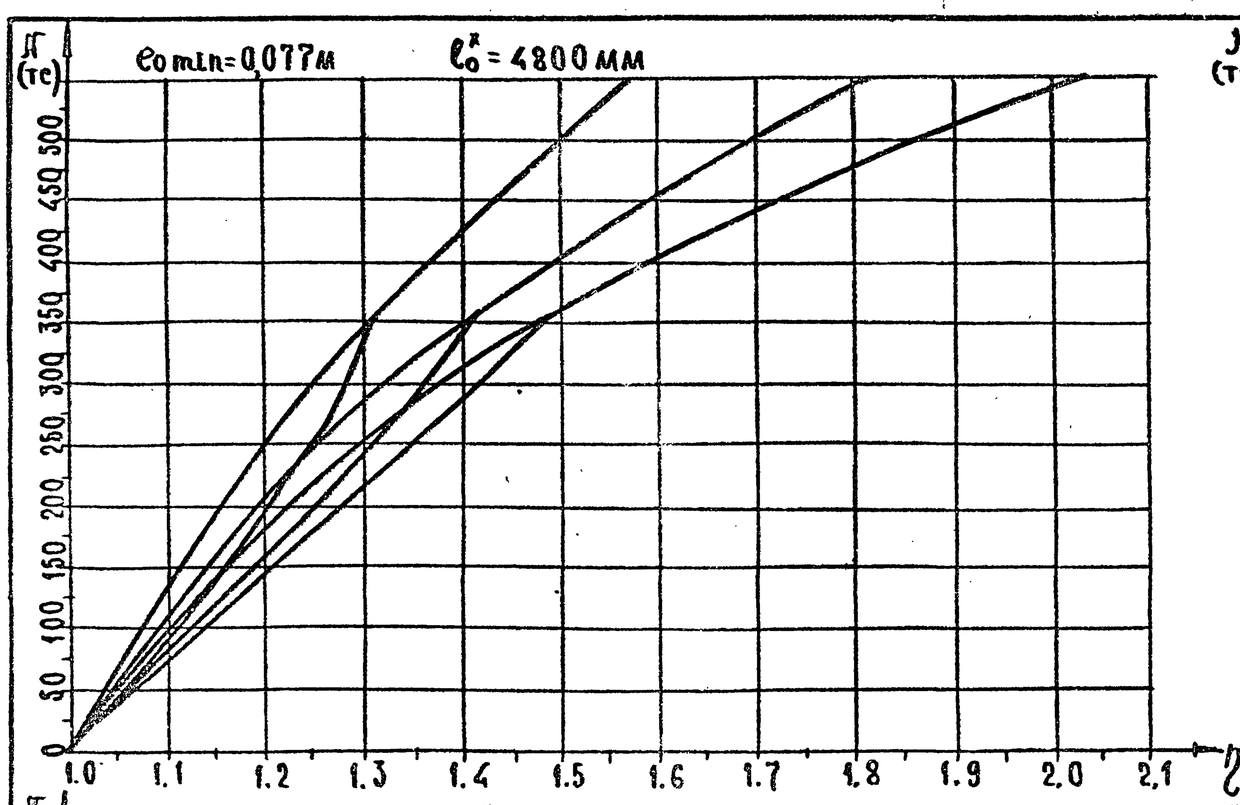
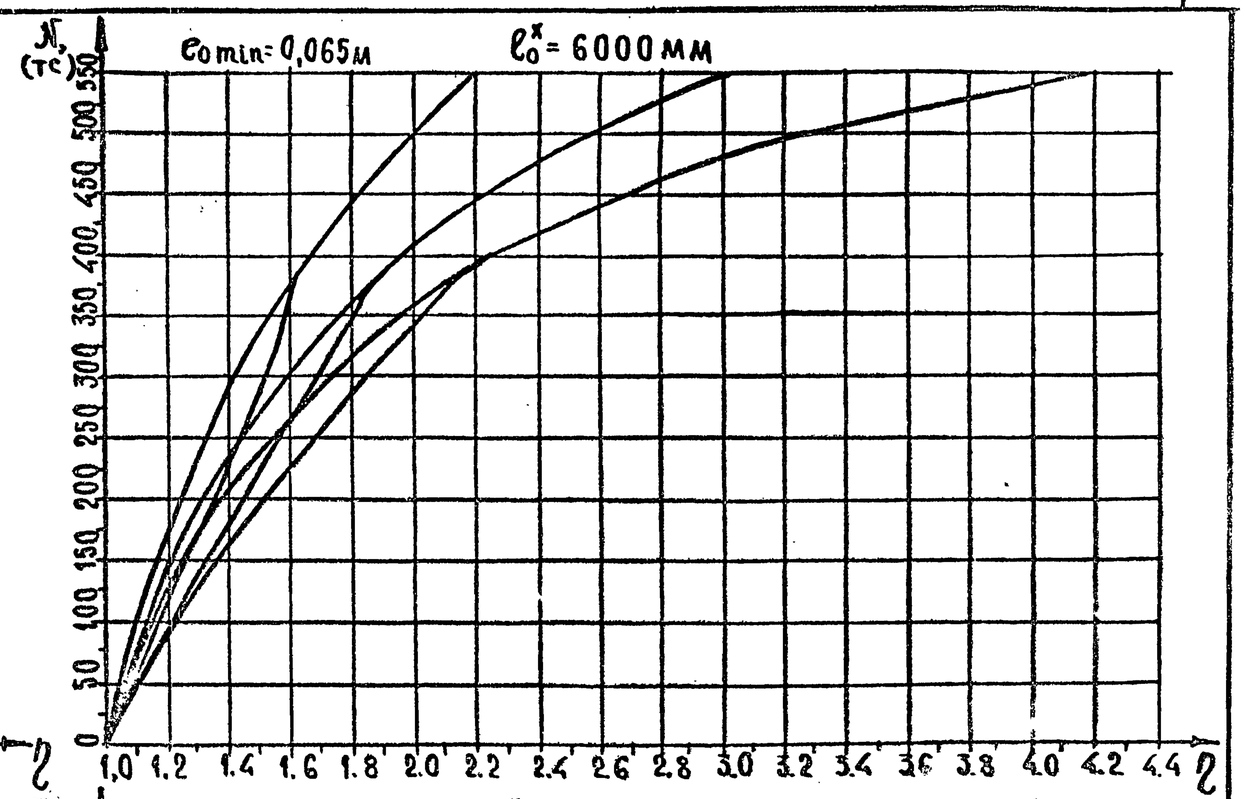
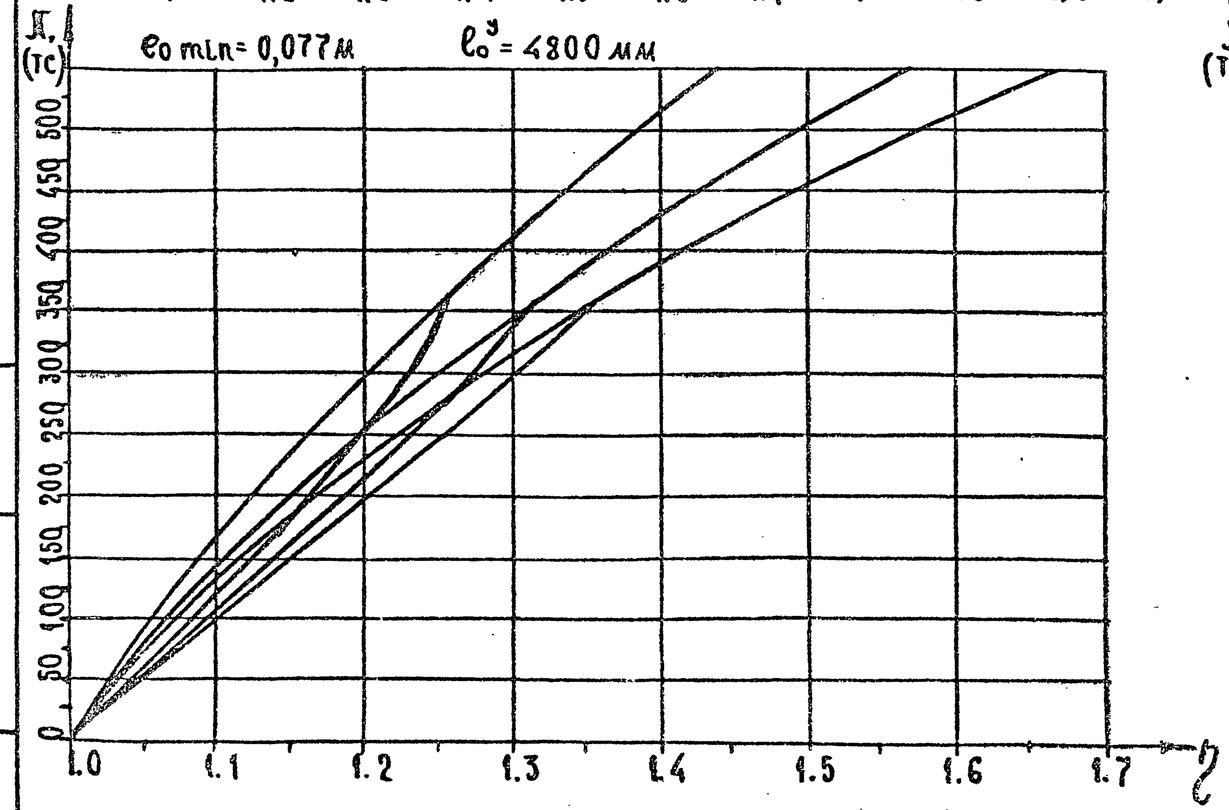
| 1.020-1/87 0-6(дополнение 1)- 2 ПЗ | Лист 38 |

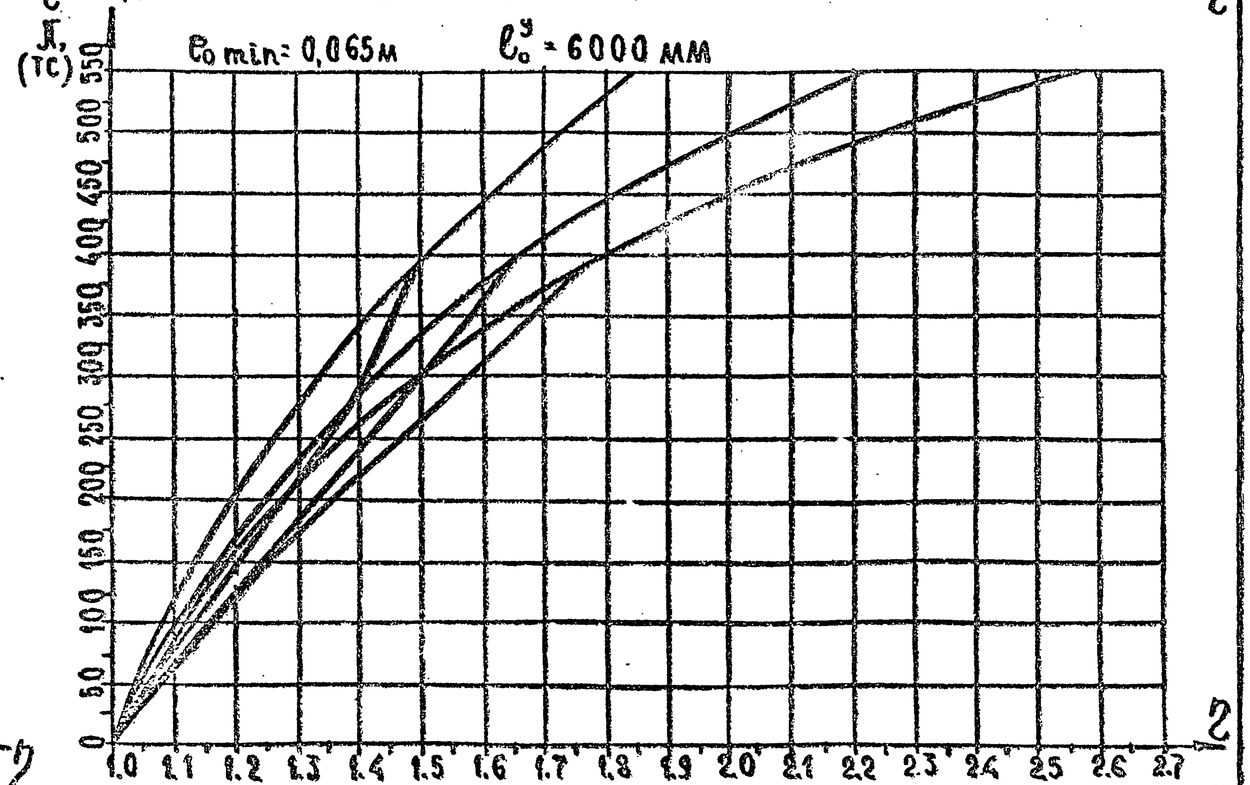


Формат А3

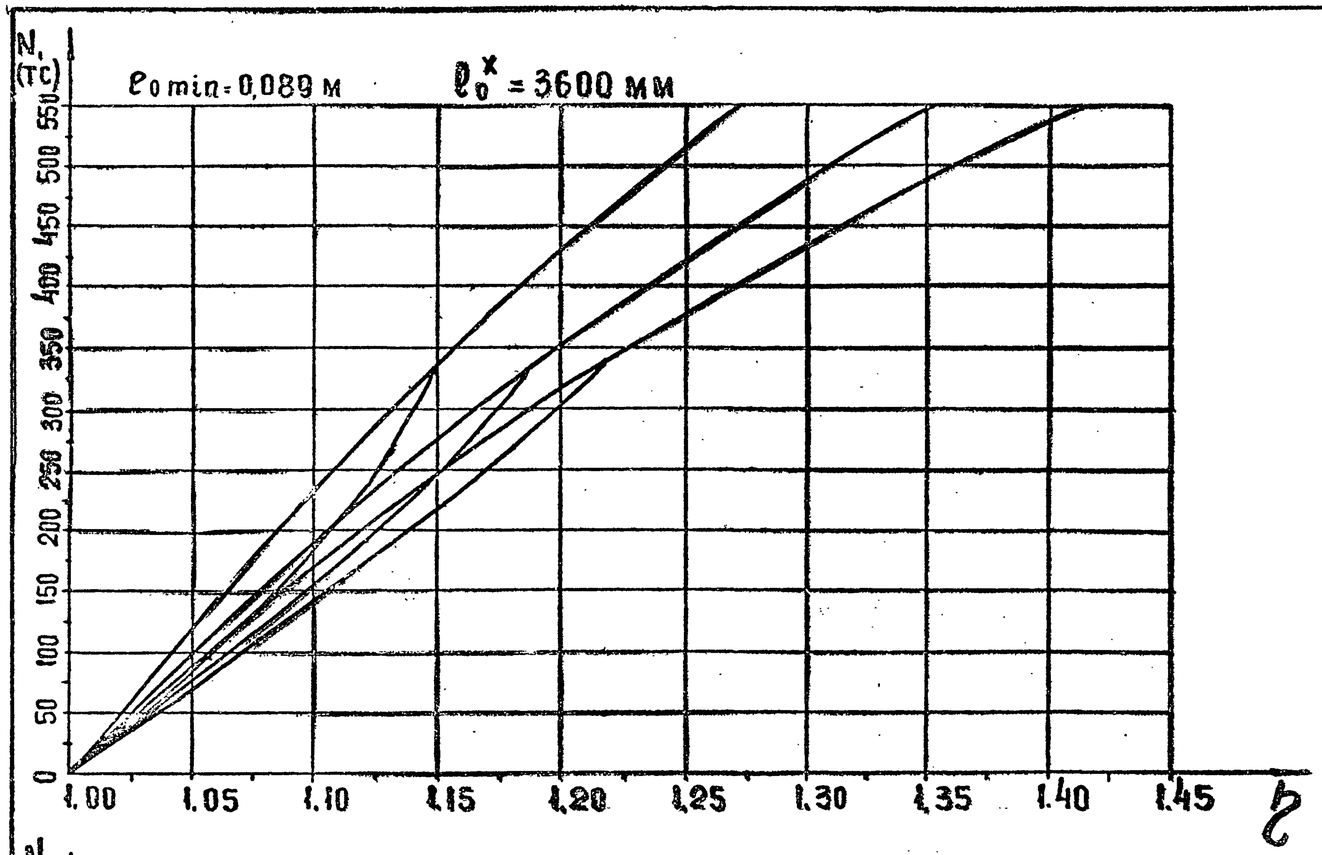


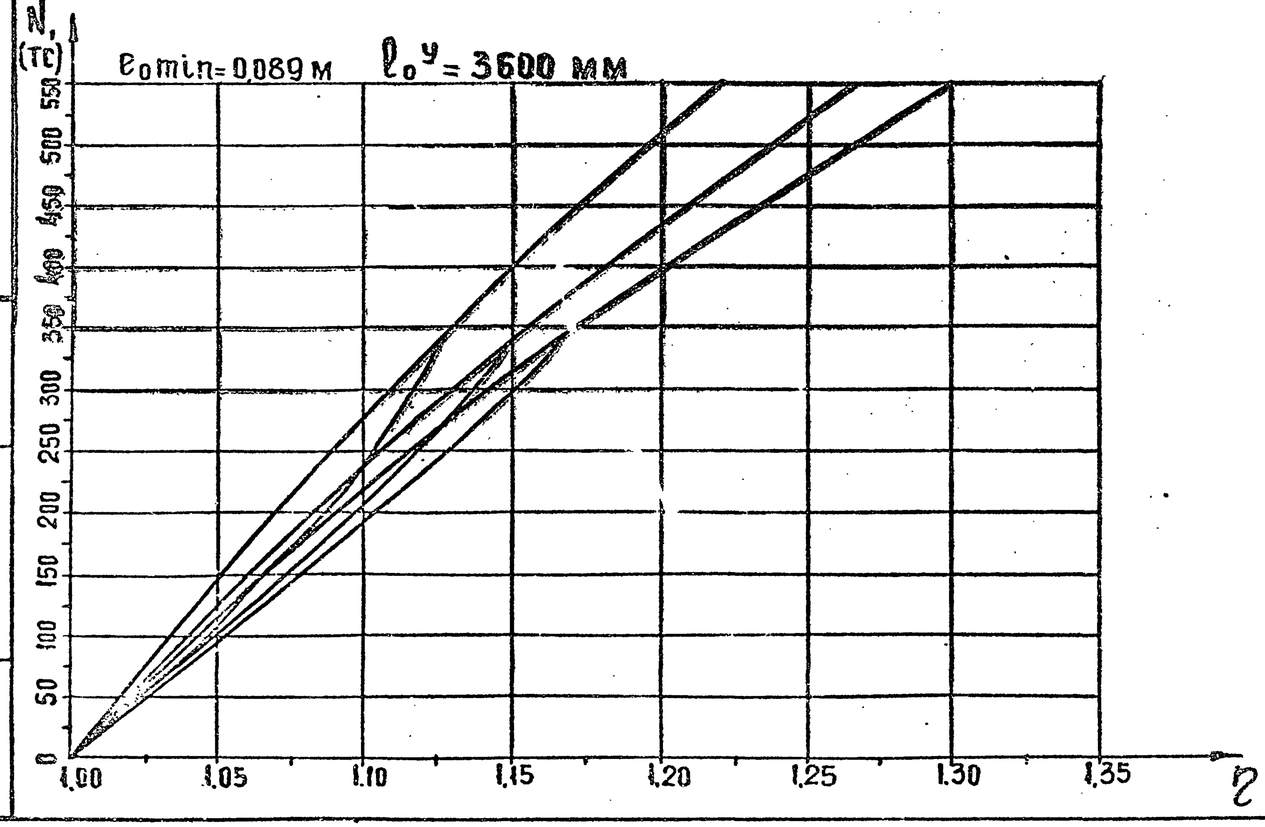



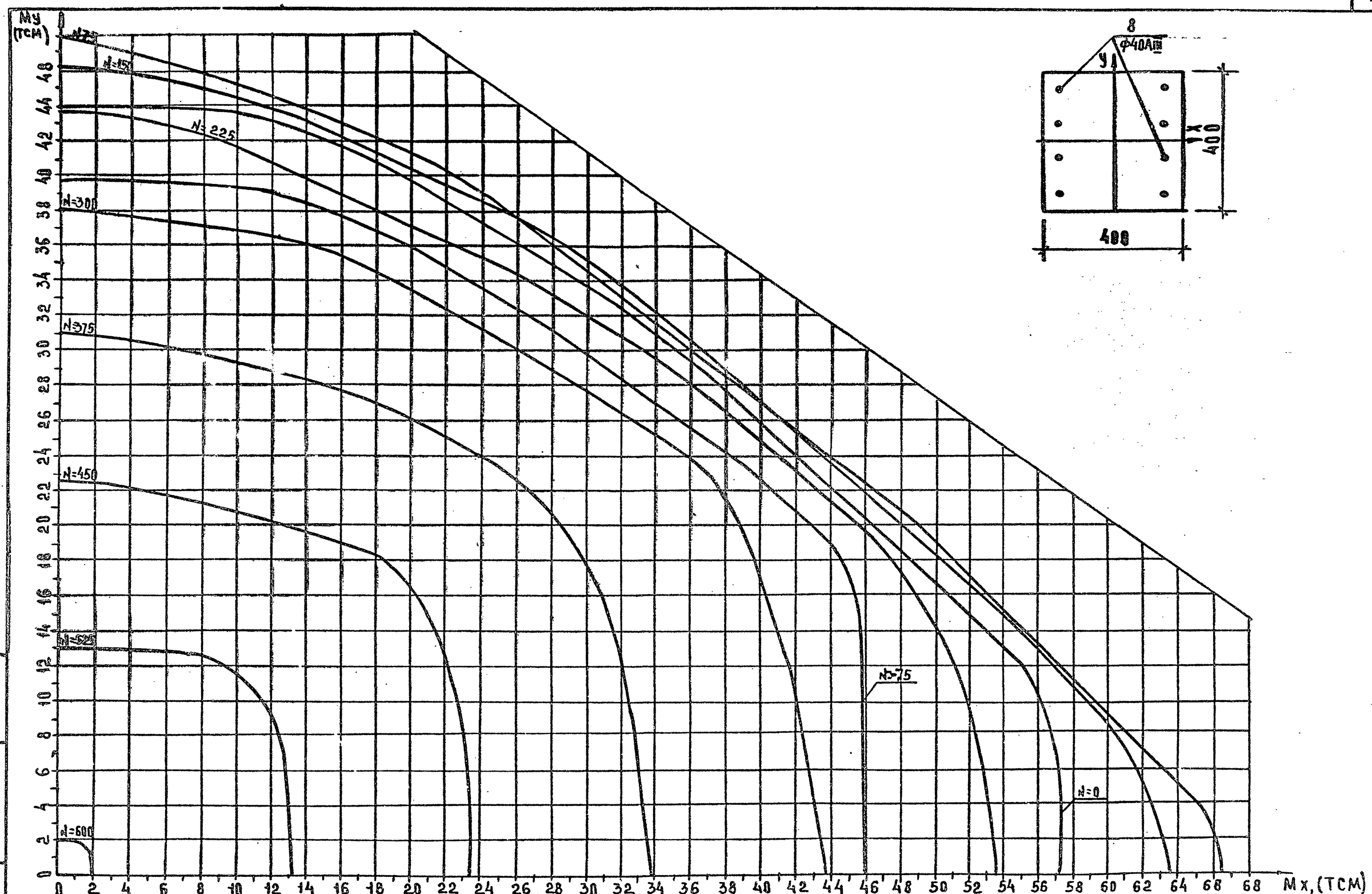




Инв. № подл. | Подпись и дата | Взам. инв. №




Инв. N подл. | Подп. и дата | Взам. инв. N

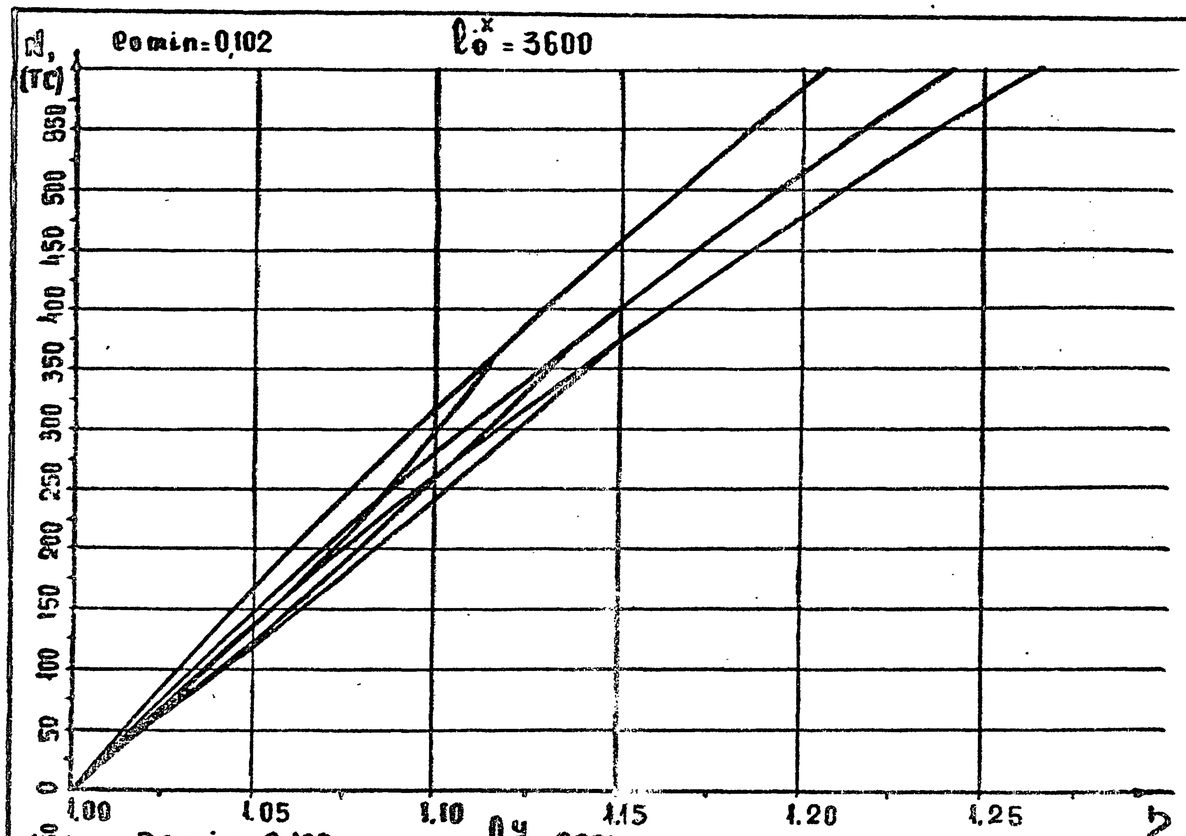


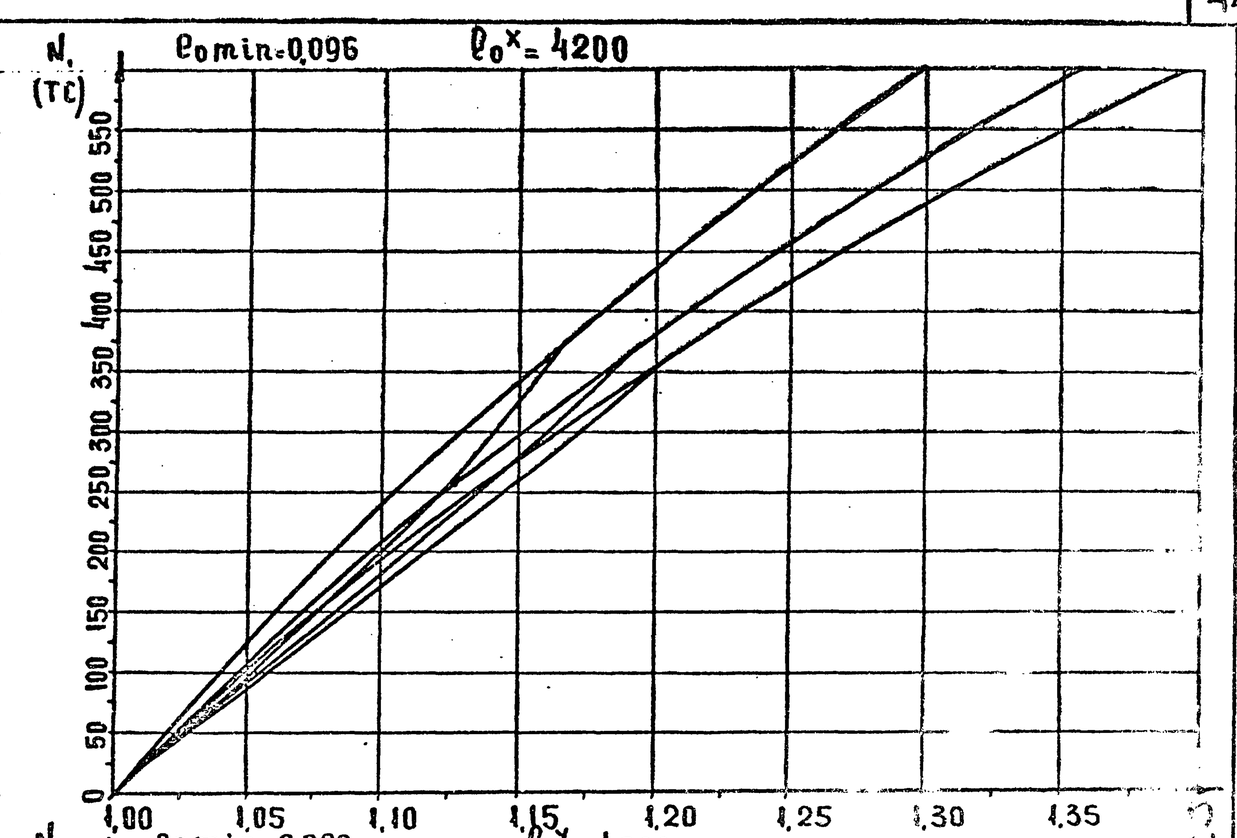

КЛАСС БЕТОНА В30 ($R_B$=15,3 МПА при учете $\gamma_{B2}$=0,90)

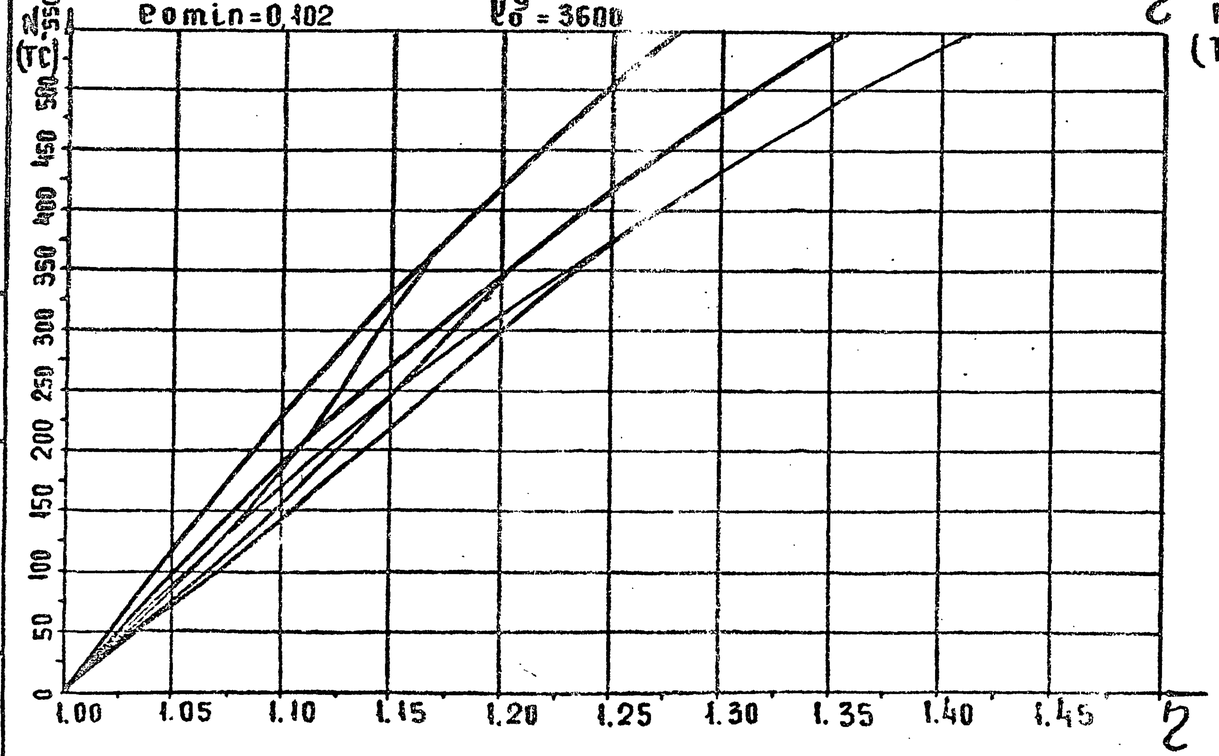
1.020-1/87. 0-6(дополнение 1)-2ПЗ

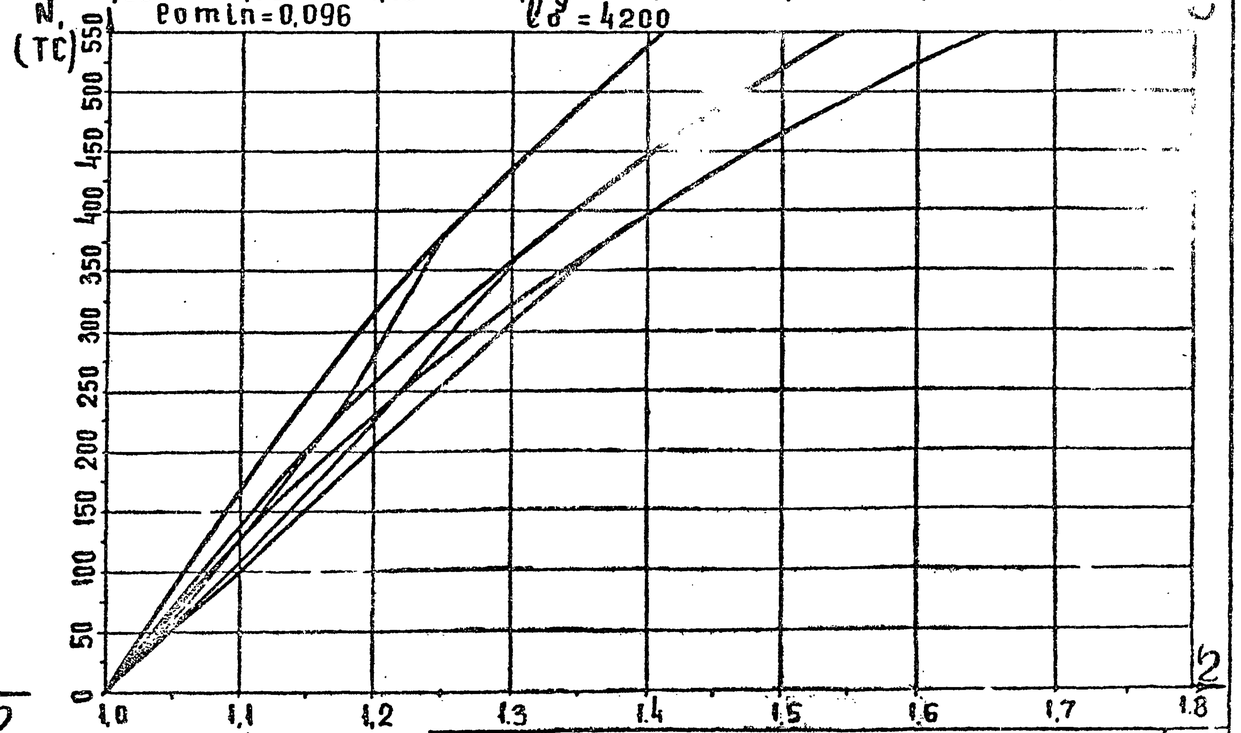
ЛИСТ 41

ИНВ.№ ПОДЛ. | ПОДП. И ДАТА | ВЗАМ. ИНВ.№

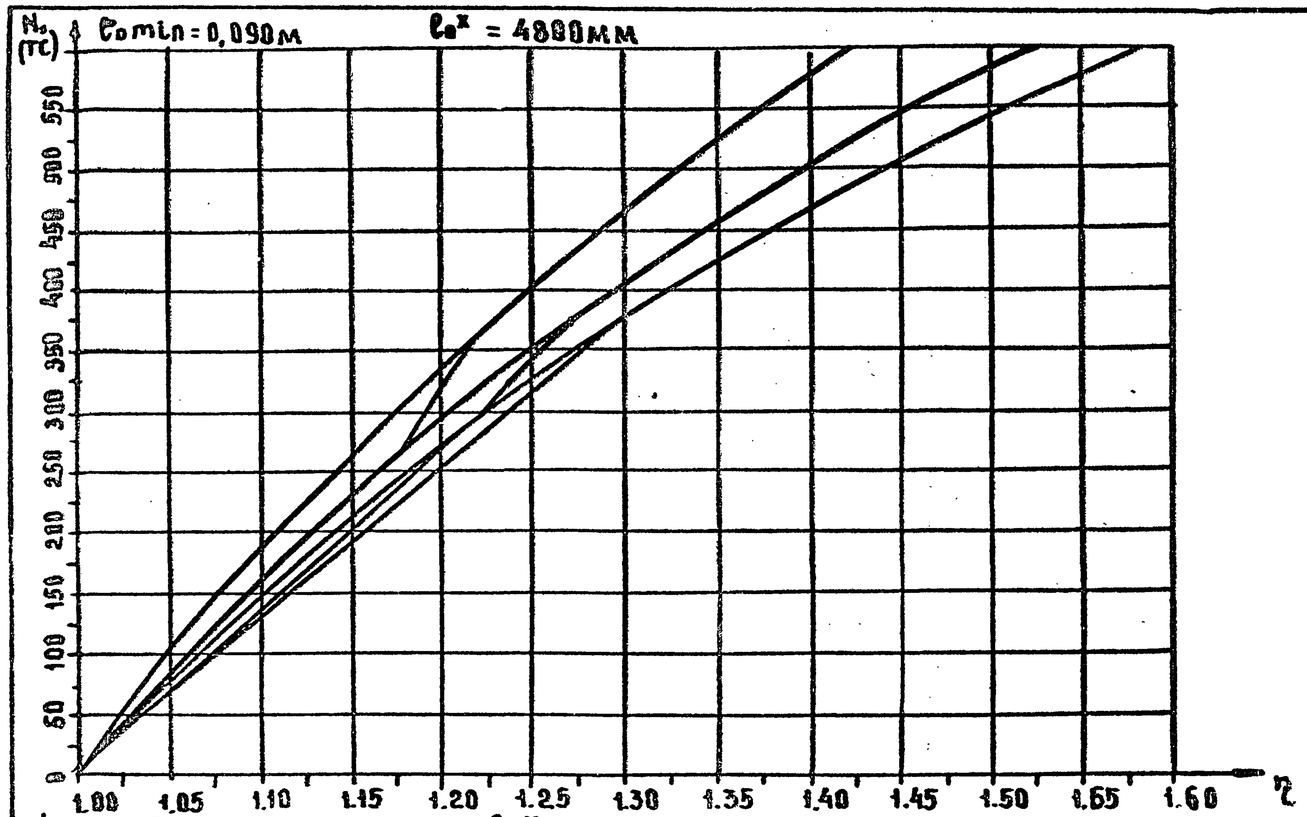


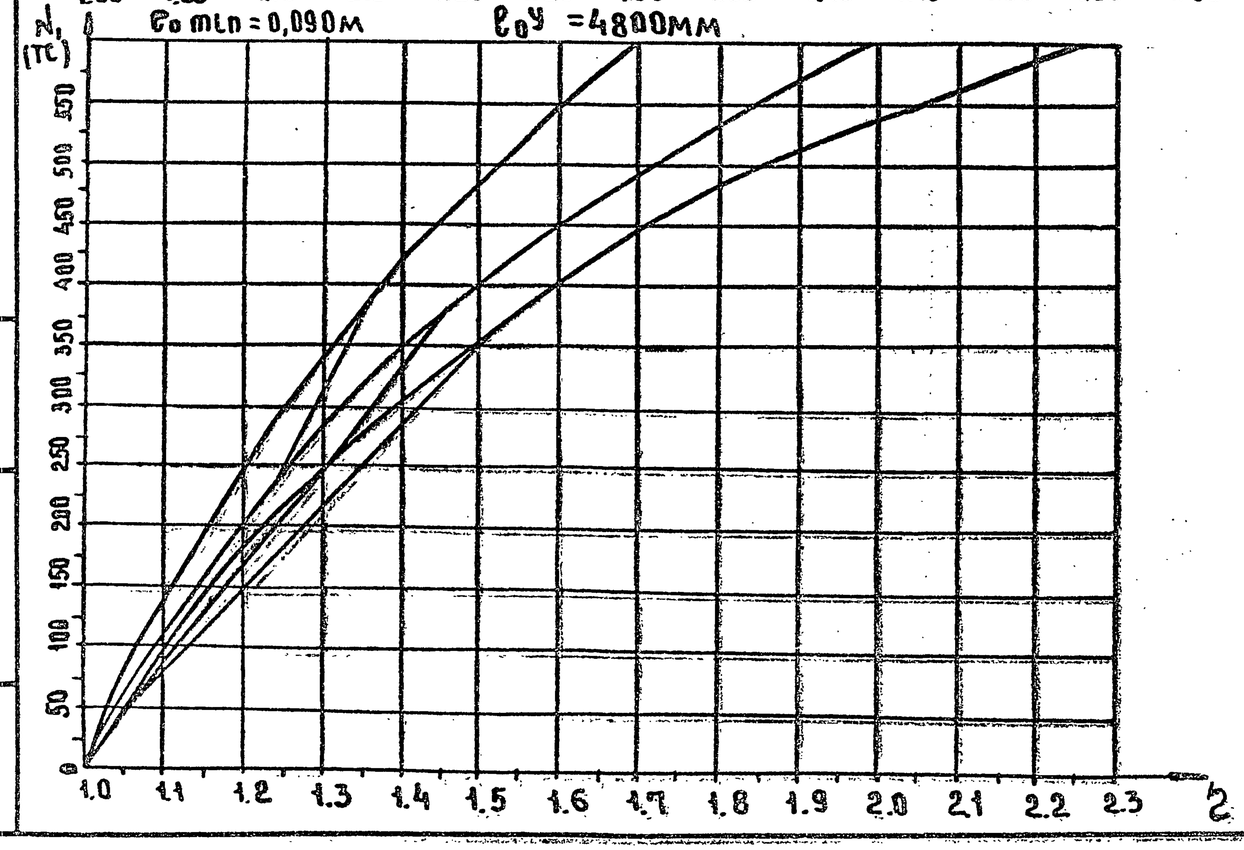




Инв. № подл. | Подп. и дата | Взам. инв. №

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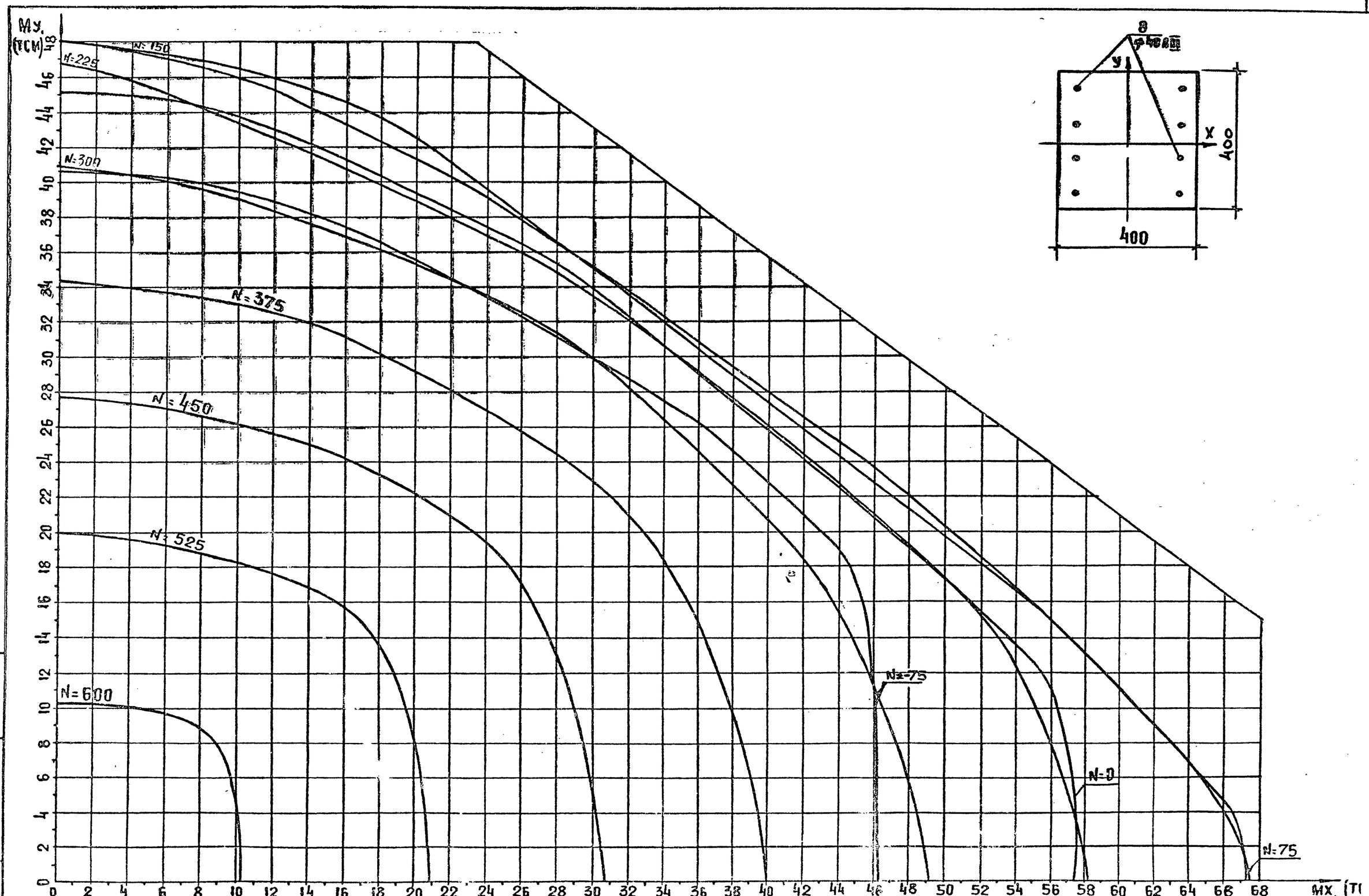
1.020-1/87. 0-6 (дополнение 1)-2 ПЗ

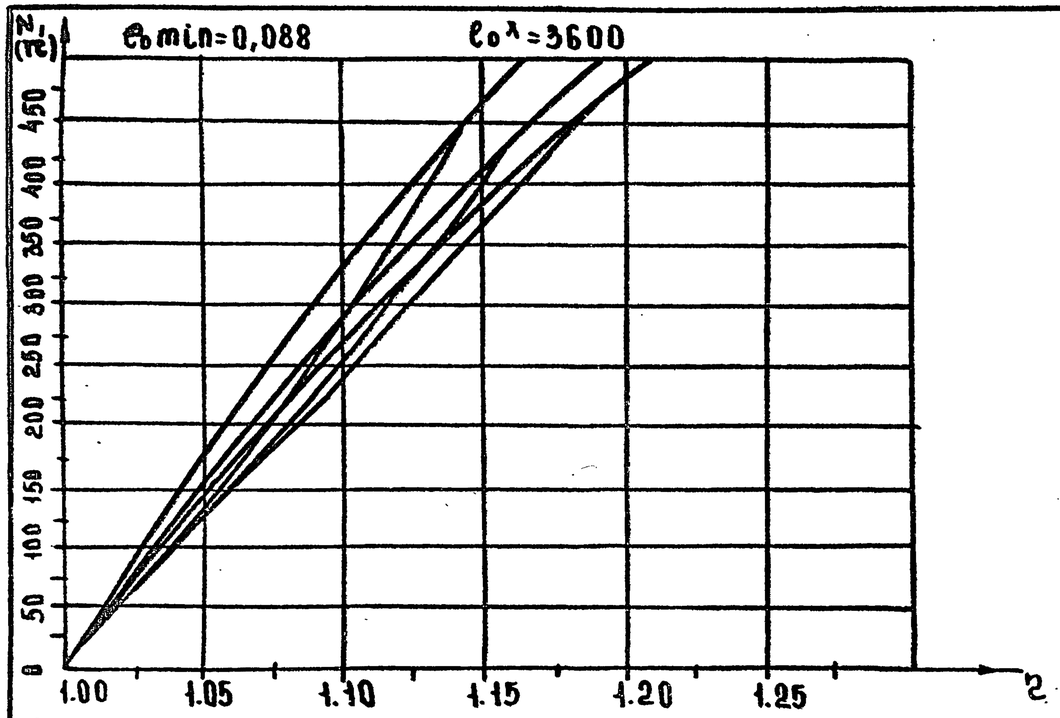
Лист 43

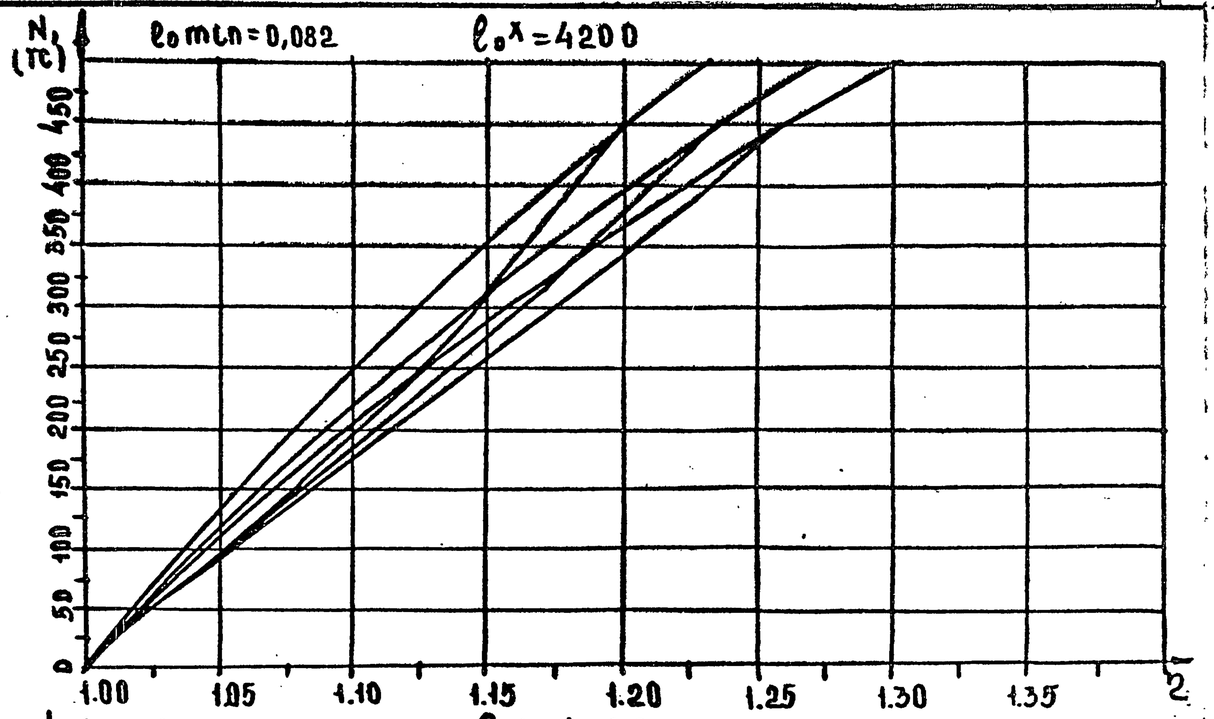


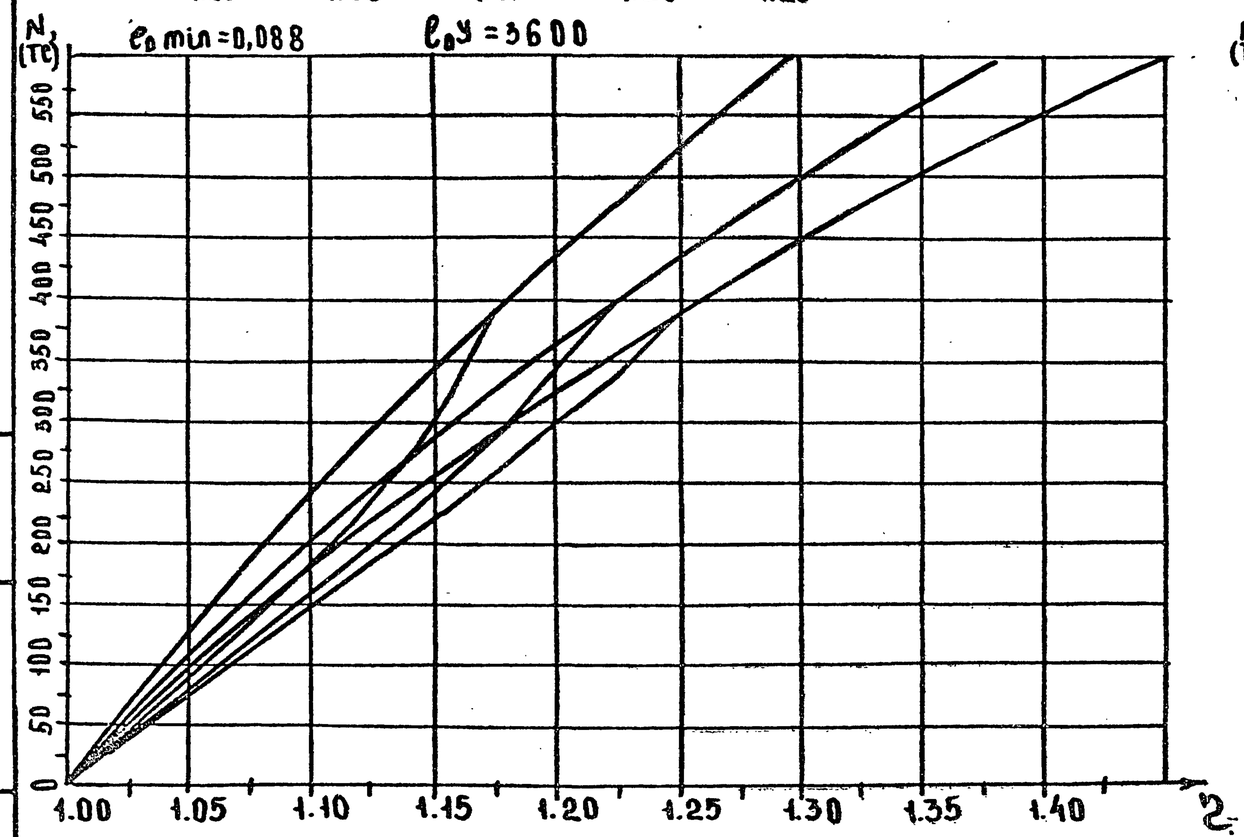

КЛАСС БЕТОНА В 30. ($R_B$ = 16,7 МПА ПРИ УЧЕТЕ $\gamma_{B2}$ = 1,10)

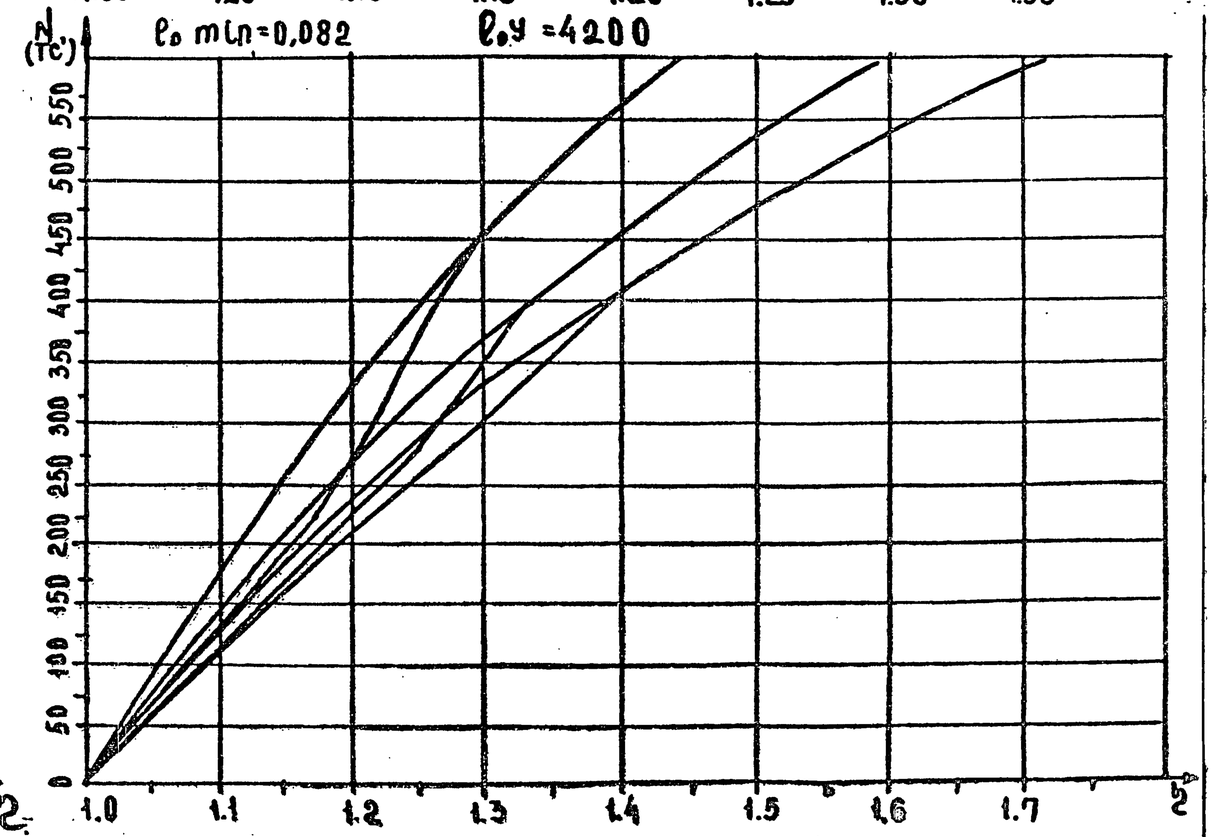
1.020-1/87. 06 (ДОПОЛНЕНИЕ 1) - 2ПЗ

Инв. N подл. | Подп. и дата | Взам. инв. N

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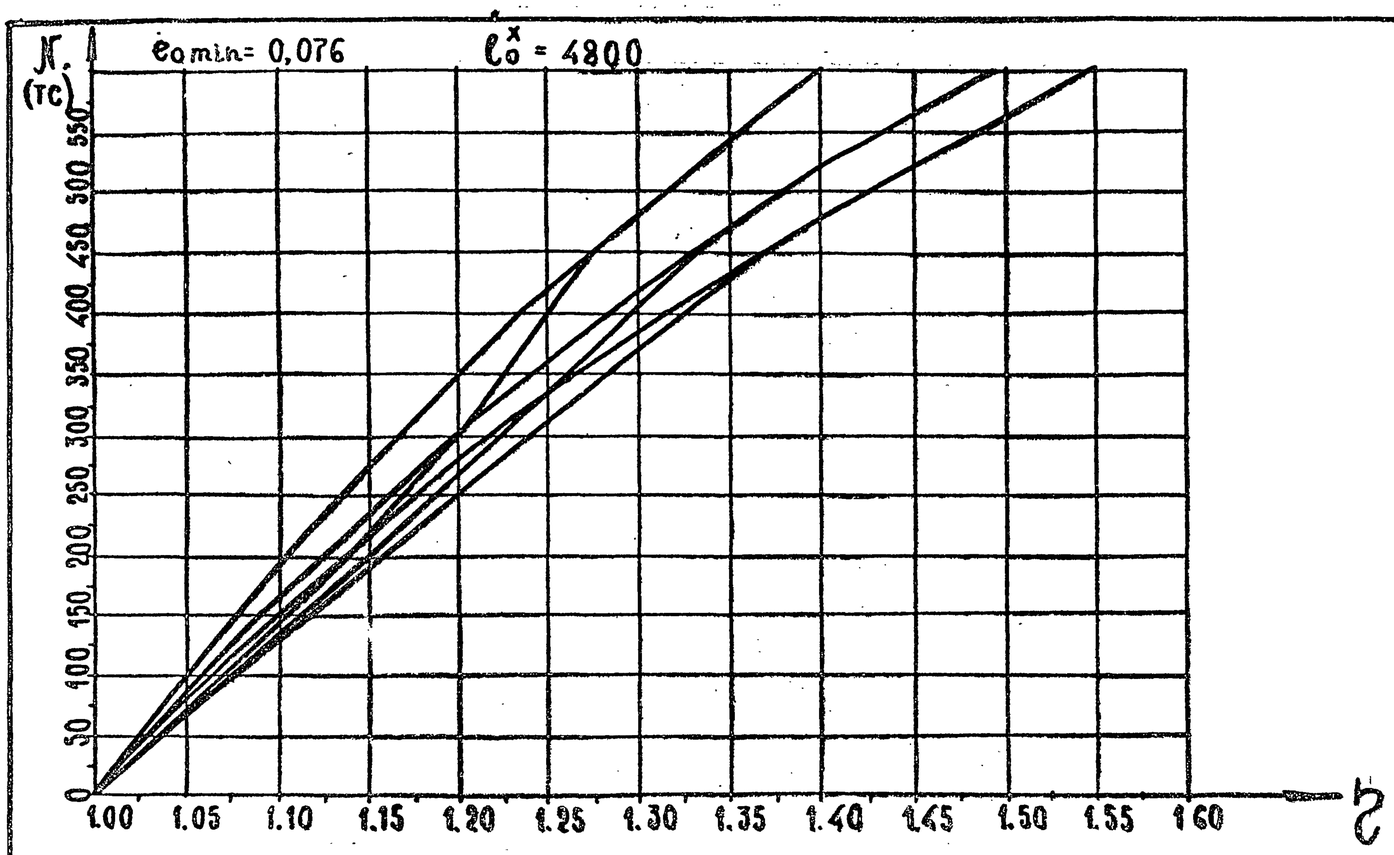


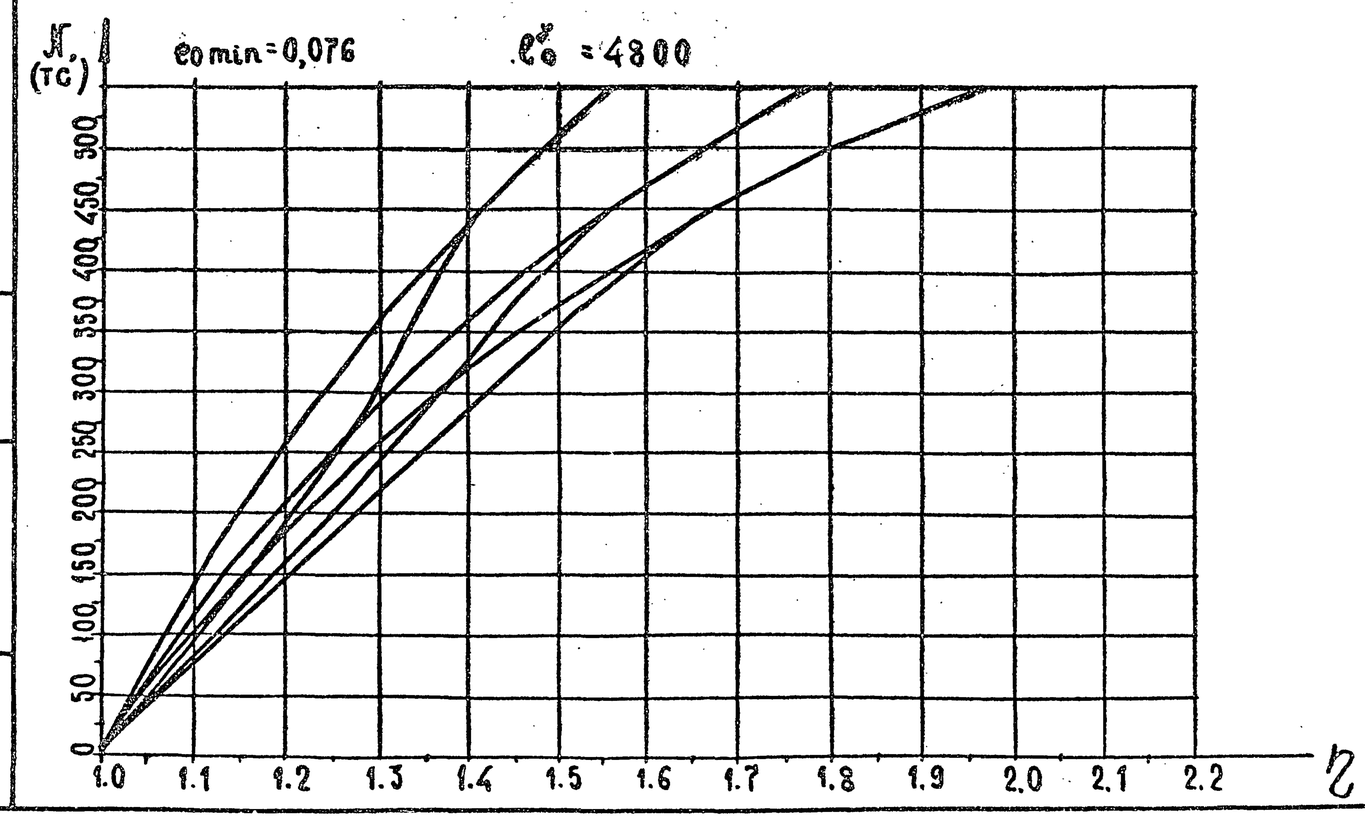


Инв.№ подл. | Подпись и дата | Взам.инв.№