**O‘ZBEKISTON MILLIY STANDARTI**

# Yuqori voltli elektr uzatish liniyalari tayanchlari uchun sentrifugalangan konussimon va silindirsimon temir-beton ustunlar hamda ularning o‘rnatma buyumlari va tayanchlarining konstruksiyasi

## Konstruksiya va o‘lchamlar

Rasmiy nashr

O‘zbekiston standartlar instituti

Toshkent

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

## So’z boshi

1. STQ 21 “Qurilish va uy-joy kommunal xo’jaligi” Standartlashtirish bo’yicha texnik qo’mitasi tomonidan **ISHLAB CHIQILDI.**

2. O‘zbekiston standartlar institutining 25.07.2025-yildagi 95/MSt-sonli buyrug’i bilan **TASDIQLANDI.**

3. O‘z DSt 910-98, O‘z DSt 911-98, O‘z DSt 912 -98 **O‘RNIGA ISHLAB CHIQILDI.**

*Ushbu milliy standartni va unga bo‘lgan o‘zgartishlarni O‘zbekiston hududida amalga kiritish, qayta ko‘rib chiqish yoki bekor qilish haqidagi axborot Standartlashtirish bo‘yicha milliy organning rasmiy veb-saytlari va standartlarning yillik axborot ko‘rsatkichlarda chop etiladi.*

Ushbu standartni O‘zbekiston hududida rasmiy tarqatish mutlaq huquqi O‘zbekiston standartlar institutiga tegishli

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# O‘ZBEKISTON MILLIY STANDARTI

**Yuqori voltli elektr uzatish liniyalari tayanchlari uchun sentrifugalangan konussimon va silindirsimon temir-beton ustunlar hamda ularning o‘rnatma buyumlar va tayanchlarining konstruksiyasi**

Konstruksiya va o‘lchamlar

**Стойки конические и цилиндрические железобетонные центрифугированные для опор высоковольтных линий электро передач и конструкция закладных изделий и подпятников**

Конструкция и размеры

**Conical and cylindrical reinforced concrete posts centrifuged for supports of high-voltage transmission lines and design of embedded products and headstocks**

Structure and fimensions

Amalga kiritish sanasi **25.09.2025 y**

## 1 Qo’llanish doirasi

Ushbu milliy standart og’ir betondan sentrifugalash usuli bilan tayyorlangan, xalqa kesimli oldindan zo’riqtirilgan konussimon va silindir temir-betonli, kuchlanishi 35-750 kVli elektr uzatuvchi liniyalarning tayanchi uchun mo’ljallangan ustunlarga qo’llaniladi hamda ko’rsatilgan ustunlarning konstruksiya va o‘lchamlariga qo’yiladigan talablarni belgilaydi.

Ushbu millliy standart konussimon va silindir sentrifugalangan temir-beton ustunlarning o‘rnatma buyumlari va tayanchlariga qo’llaniladi hamda ko’rsatilgan o‘rnatma buyumlar va tayanchlarining konstruksiyalarini belgilab beradi.

## 2 Standartlarga havolalar

Ushbu standartda quyidagi standartlarga qilingan havolalardan foydalanildi:

| | |
|---|---|
| ГОСТ 10922-2012 | Арматурные и закладные изделия, их сварные, вязаные и механические соединения для железобетонных конструкций. Общие технические условия |
| ГОСТ Р 57997-2017 | Арматурные и закладные изделия сварные, соединения сварные арматуры и закладных изделий железобетонных конструкций. Общие технические условия |
| ГОСТ 14098-2014 | Соединения сварные арматуры и закладных изделий железобетонных конструкций. Типы, конструкция и размеры |

*Ushbu milliy standartdan foydalanishda Standartlashtirish bo’yicha milliy organning rasmiy veb-saytlari va standartlarning yillik axborot ko’rsatkichlariga muvofiq standartlarni O‘zbekiston Respublikasi hududida amal qilinishi tekshirilishi kerak. Agar havola qilingan standart almashtirilgan (o‘zgartirilgan) bo’lsa, unda ushbu standartdan foydalanishda almashtirilgan (o‘zgartirilgan) standartga amal qilish kerak. Agarda havola qilinayotgan standart almashtirilmasdan bekor qilingan bo’lsa, unga havola qilingan qoida ushbu havolaga taalluqli bo’lmagan qismida qo’llaniladi.*

## 3 Asosiy ko’rsatkichlar, o‘lchamlar va umumiy texnik talablar

3.1 Ustunlarning shakli va asosiy ko’rsatkichlari – amaldagi me’yoriy hujjatlarga muvofiq bo’lishi kerak.

3.2 Ustunlarning texnik ko’rsatkichlari – konussimon ustunlar A.1-jadvalda, silindir ustunlarniki B.1-jadvalda keltirilgan.

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*Rasmiy nashr*

3.3 Ustunlar amaldagi me’yoriy hujjatlarga va ushbu standartning barcha talablariga muvofiq bo’lishi kerak.

3.4 Ustunlarning konstruksiya va o‘lchamlari - konussimon ustunlar A.1-rasmda, silindir ustunlar B.1-rasmda ko’rsatilganlarga mos bo’lishi lozim.

3.5 Ustunlarni ishlab chiqarishda foydalaniladigan po’lat sarfi ko’rsatkichlari - konussimon ustunlar A.2-jadvalda, silindir ustunlar B.2-jadvalda keltirilganga mos kelishi lozim.

3.6 Ustunlarning armatura karkaslari va o‘rnatma mahsulotlarning joylashuvi - konussimon ustunlar A.2-A.41 rasmlarda ko’rsatilganlarga, silindir ustunlarniki esa B.2-B.20 rasmlarda ko’rsatilganlarga muvofiq bo’lishi lozim.

Ustunlarning zo’riqtiriladigan armaturasining joylashuvi – konussimon ustunlar A.42-A.45-rasmlarda keltirilganlarga, silindir ustunlarniki esa B.21-B.22-rasmlarda ko’rsatilganiga muvofiq bo’lishi lozim.

*Izoh: Armatura karkaslarining rasmlarida zo’riqtiriladigan armatura 1 raqami bilan belgilangan va qalin chiziq bilan ajratib ko’rsatilgan.*

3.7 Zo’riqtiriluvchi sterjen armaturaning birikmalari ГОСТ 14098 bo’yicha bog’lanib tutashtirilgan payvandlash orqali amalga oshirilishi kerak.

3.8 Tayanchlarda zo’riqtirish tugagandan so’ng nazorat qilinadigan zo’riqtiriladigan armaturani cho’zish kuchlanishi - konussimon ustunlarniki A.2-jadvalda, silindir ustunlarniki B.2 jadvalda keltirilganlarga muvofiq bo’lishi lozim.

3.9 Ustunlarni ko’ndalang armaturalash ustunning uzunligi bo’yicha o‘zgaruvchan qadam bilan spiral tarzida bajariladi.

Ustunlarni uzunligi bo’ylab spiral qadamning qiymati - konussimon ustunlarniki A.4-jadvalda, silindir ustunlarniki B.4-jadvalda ko’rsatilganlarga muvofiq bo’lishi kerak.

3.10 Spiralni to’qish simi bilan bo’ylama armaturaga har bir uchinchi kesimida bog’lab qo’yish lozim.

Spiralni 1 kN (0,1tk) taranglikda mexanik tarzda o‘rashda spiralni bo’ylama armaturaga o’rash faqat chet qismlarda 0,5 m uzunlikda amalga oshiriladi.

3.11 Montaj xalqalari ustunning uzunligi bo’ylab 1,0 m oraliqda o‘rnatiladi, shuningdek zo’riqtirilmaydigan armatura sterjenlarining uchlarida, o‘rnatma sterjenlariga payvandlagan holda o‘rnatiladi.

Ustun uchlaridagi montaj xalqalarini zo’riqtirilmaydigan bo’ylama armaturaning barcha sterjenlariga payvandlash lozim.

*Izoh: Armatura karkaslarining yoyilmalarida yig’uv xalqalari ko’ndalang chiziqlar orqali ko’rsatilgan.*

3.12 Ustunning armatura elementlariga tavsifi – konussimon ustunlar A.3-jadvalda, silindir ustunlar B.3- jadvalda keltirilgan.

3.13 Ustun uzunligi bo’yicha o‘rnatma buyumlar orasidagi masofalar - konussimon ustunlar A.5-jadvalda, silindir ustunlar B.5-jadvalda keltirilgan.

3.14 O‘rnatma buyumlar, shuningdek ustunlar tayanchlarining konstruksiyasi C ilovada keltirilgan.

3.15 Ustunlarni mustahkamlik, qattiqlik va zarbaga chidamlilik bo’yicha sinashda tayanish va yuklash sxemasi - konussimon ustunlar A ilovada, silindir ustunlar B ilovada keltirilgan.

3.16 Normal rejim sxemasiga muvofiq sinovdan o’tkazilganda mustahkamligiga, qattiqligiga va yoriqqa bardoshliligiga tekshirish uchun nazorat yukining qiymatlari, shuningdek nazorat egilishi va nazorat yoriqlar kengligining qiymatlari konussimon ustunlarniki A ilovada, silindrik ustunlarniki esa B ilovada ko’rsatilgan.

Favqulotda holat rejimi sxemasiga muvofiq sinov vaqtida nazorat yukining qiymatlari - konussimon ustunlar A ilovada, silindir ustunlar esa B ilovada keltirilgan.

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**3.17 O‘rnatma buyumlar va tayanchlar konstruksiyasiga qo’yiladigan talablar**

3.17.1 O‘rnatma buyumlarining shakli va o’lchovlari C.1-chizmada ko’rsatilganlarga muvofiq bo’lishi lozim.

O‘rnatma buyumlar elementlarining tasniflagichi C.1-jadvalda keltirilgan.

O‘rnatma buyumlar elementlarining ulanmalarini choklari bo’yicha dastaki yoy payvand yo’li bilan bajariladi.

3.17.2 Ustunlar gardish ulanmalari uchun o‘rnatma buyumlarining shakl va o‘lchovlari C.2-chizmada ko’rsatilganlarga muvofiq bo’lishi lozim.

Ushbu o‘rnatma buyumlarga elementlarning tasniflagichi C.2-jadvalda keltirilgan.

3.17.3 Tayanchlarning shakli va o‘lchamlari, ularning material sig’imdorligi ko’rsatkichlari C.3-4-chizmalarda ko’rsatilganlarga hamda C.3-jadvalda keltirilganlarga mos bo’lishi lozim.

3.17.4 Tayanchlarni o‘rtacha zichligi 2200 dan ortiq bo’lib, 2500 kg/m$^3$ gacha bo’lgan og’ir betondan tayyorlash lozim.

3.17.5 Tayanchlarni armaturalash C.5-chizmaga muvofiq bo’lishi lozim. Armatura elementlarining tayanchlarining tasniflagichi C.4-jadvalda keltirilgan.

3.17.6 Sterjenlarni shakl bilan hochsimon ulash ГОСТ 14098 bo’yicha bajariladi. Zulfinli sterjenlarni shakl bilan tavr shaklida ulash ГОСТ 14098 bo’yicha bajariladi. Payvandlash maromini ГОСТ 14098 bo’yicha tanlash lozim.

3.17.7 O‘rnatma buyumlar va tayanchlarning texnikaviy talablari amaldagi me’yoriy hujjatlar bo’yicha belgilanadi.

3.17.8 O‘rnatma buyumlar sifatini baholash va ularning nazorat usullari ГОСТ Р 57997 yoki ГОСТ 10922 yoki bo’yicha amalga oshiriladi.

**4 Foydalanish bo’yicha ko’rsatmalar**

4.1 Ustunlar quyidagi hollarda foydalanishga mo’ljallangan:

-tashqi havoning hisobiy harorati [1] ga ko’ra, qurilish hududining eng sovuq besh kunligida minus 55º C gacha bo’lganda;

-[2] ga muvofiq shamol bosimi I-VII bo’lgan hududlarda va I-V hududlarda muzlagan devor qalinligi bo’yicha;

-qurilish maydonining zilziladorligi 9 ballgacha bo’lganda.

4.2 Temir-beton konstruksiyalarga agressiv ta’sir ko’rsatadigan muhitda ishlash uchun mo’ljallangan ustunlar [3] ga muvofiq loyihalash hujjatlarida belgilangan va ustunlarni tayyorlash tartibida ko’rsatilgan qo’shimcha talablarga javob berishi kerak.

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# A ilova

(Normativ)

## Yuqori voltli elektr uzatish liniyalari tirgaklari uchun sentrifugalangan konussimon temir-beton ustunlar

A.1-jadval. Ustunlarning texnik ko’rsatkichlari

| Ustunlarning belgisi | Beton hajmi m | Beton sinfi | Chegaraviy moment, kN(tk) | | Mahsulot massasi |
|---|---|---|---|---|---|
| | | | Mustahkamlik | Darzlar xosil bo’lishi bo’yicha | |
| CK26.1-1.1 | 2,5 | B40 | 462,1(47,12) | 130,9(13,34) | 6821 |
| CK26.1-1.2 | | | 465,6(47,47) | 154,2(15,72) | 6757 |
| CK26.1-1.5 | | | 409,5(41,75) | 211,0(2151) | 6750 |
| CK26.1-1.4 | | | 422,7(43,11) | 108,2(11,03) | 6752 |
| CK26.1-1.3 | | | 458,7(46,77) | 163,9(16,71) | 6733 |
| CK26.1-2.1 | | | 462,1(47,12) | 130,9(13,34) | 6849 |
| CK26.1-2.2 | | | 465,6(47,47) | 154,2(15,72) | 6804 |
| CK26.1-2.5 | | | 409,5(41,75) | 211,0(21,51) | 6770 |
| CK26.1-2.4 | | | 422,8(43,11) | 108,2(11,03) | 6735 |
| CK26.1-2.3 | | | 458,7(46,77) | 163,9(16,71) | 6712 |
| CK26.1-3.1 | | | 531,5(45,19) | 125,4(12,78) | 6992 |
| CK26.1-3.4 | | | 516,7(52,68) | 151,0(15,39) | 6801 |
| CK26.1-3.3 | | | 523,4(53,37) | 157,2(16,02) | 6796 |
| CK26.1-4.1 | | | 423,1(43,14) | 170,3(17,36) | 6860 |
| CK26.1-5.1 | | | 577,8(58,91) | 121,6(12,39) | 6997 |
| CK22.1-1.1 | 1,9 | B30 | 264,8(27,00) | 111,2(11,3) | 6997 |
| CK22.1-1.2 | | B40 | 270,2(27,55) | 121,1(12,35) | 4765 |
| CK22.1-2.1 | | B30 | 326,0(33,24) | 108,6(11,07) | 4847 |
| CK22.1-2.2 | | B40 | 329,5(33,59) | 137,0(13,97) | 4816 |
| CK22.1-3.1 | | B30 | 215,3(21,95) | 99,3(10,12) | 4809 |
| CK22.1-3.2 | 1,8 | | 212,1(21,63) | 93,4(9,52) | 4526 |
| CK26.1-6.1 | 2,5 | B40 | 453,2(46,21) | 188,8(19,25) | 6910 |
| CK26.1-6.2 | 2,5 | B40 | 437,1(44,57) | 210,5(21,46) | 6883 |
| CK26.2-1.1 | 2,5 | B40 | 452,3(46,12) | 188,7(19,24) | 6952 |
| CK26.2-1.2 | | | 430,8(43,92) | 159,1(16,22) | 6848 |
| CK22.2-1.1 | 2,3 | B40 | 525,1(53,54) | 200,0(20,39) | 6418 |
| CK22.2-1.2 | | | 502,2(51,21) | 207,9(21,19) | 6334 |
| CK22.3-1.1 | 2,2 | | 296,4(30,22)<br>334,6(34,11) | 92,8(9,46)<br>154,8(15,78) | 6086 |
| CK22.3-1.2 | | | 293,9(29,97)<br>368,5(37,57) | 92,5(9,43)<br>180,7(18,43) | 6066 |
| CK26.1-1.0 | 2,5 | B30 | 457,7(46,67) | 105,9(10,80) | 6896 |
| CK26.1-2.0 | | | 457,7(46,67) | 105,9(10,80) | 6929 |
| CK26.1-3.0 | | | 540,3(55,09) | 100,0(10,20) | 7054 |
| CK26.1-4.0 | | | 415,5(42,36) | 153,0(15,60) | 6933 |
| CK22.1-1.0 | 1,9 | | 267,0(27,22) | 89,5(9,13) | 5027 |
| CK22.1-2.0 | | | 339,3(34,59) | 86,3(8,80) | 5332 |
| CK22.1-3.0 | | | 21,3(21,56) | 93,6(9,54) | 4995 |
| CK26.1-6.0 | 2,5 | B40 | 455,8(46,48) | 149,5(15,24) | 6984 |
| CK26.2-1.0 | | | 454,7(46,37) | 149,2(15,21) | 7105 |
| CK22.2-1.0 | 2,3 | | 522,1(53,24) | 199,1(20,30) | 6571 |
| CK22.3-1.0 | 2,2 | | 307,6(31,37)<br>362,8(36,99) | 90,7(9,25)<br>152,1(15,51) | 6220 |

1 izoh: Mahsulotning massasini hisoblashda betonning o‘rtacha zichligi 2500 kg/m$^3$ qilib olingan

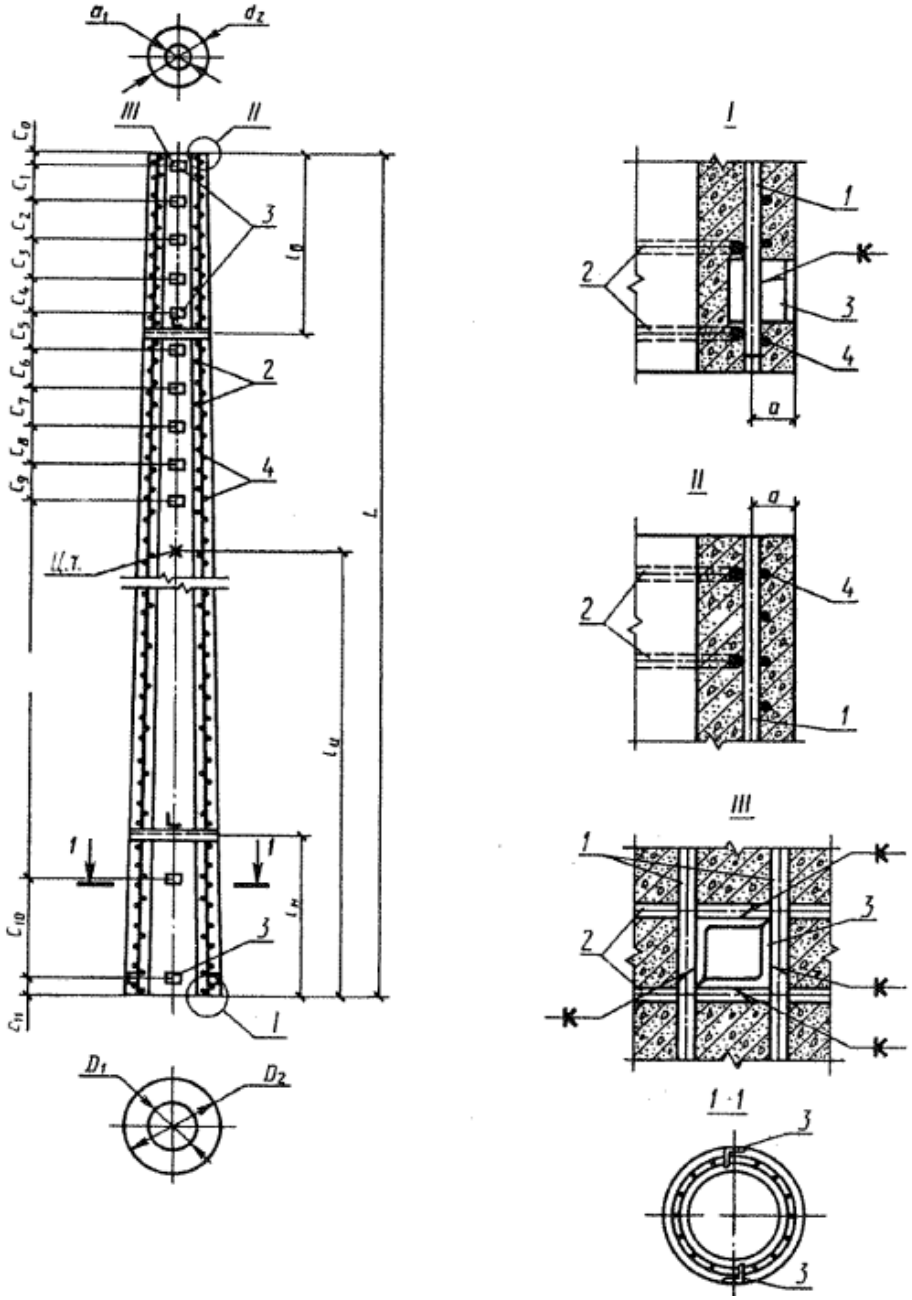
2 izoh: CK22.3-1 ustunlar uchun 4 va 5 bandlardagi tafsiflar ustun cho’qqisidan 4,7 belgidagi kesim uchun suratda va tubidan 3,0 m belgidagi uchun – maxrajda keltirilgan

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A.2-jadval. Ustunlarni ishlab chiqarishda foydalaniladigan materiallar sarfi

| Ustunlarning belgisi | Ustunning tashqi yuzasi bo‘ylab ko’ndalang armatura o‘qigacha bo‘lgan masofa (mm) | Materiallar sarfi | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Bo’ylama armatura | | | | Spiral | | Montaj xalqalari | | Yerga ulanish sterjen | |
| | | Zo’riqtiriladigan | | Zo’riqtirilmaydigan | | | | | | | |
| | | Navi | Massa, kg | Navi | Massa, kg | Navi | Massa, kg | Navi | Massa, kg | Navi | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| CK26.1-1.1 | 24 | Ø12AV(A800) | 277.0 | Ø12AV(A800) | 136.0 | Ø4BI | 58.4 | Ø8AI (240) | 25.7 | Ø12AV(A800) | |
| CK26.1-1.2 | | Ø12AVI (800) | 277.0 | Ø12AI(A240) | 85.1 | | 44.7 | | 25.7 | Ø12AVI(A1000) | |
| CK26.1-1.5 | | Ø12K7 | 352.8 | Ø12AI(A240) | 15.4 | | 32.5 | | 25.7 | Ø12AI(A1000) | |
| CK26.1-1.4 | | Ø14K19 | 212.2 | Ø12AV(A800) | 100.7 | Ø5BI | 69.4 | | 24.1 | Ø12AV(A800) | |
| CK26.1-1.3 | | Ø12K7 | 260.0 | Ø12AV(A800) | 67.9 | Ø4BI | 33.6 | | 25.7 | Ø12AV(A800) | |
| CK26.1-2.1 | | Ø12AV(A800) | 277.0 | Ø12AV(A800) | 128.8 | Ø5BI | 90.9 | | 23.3 | Ø12AV(A800) | |
| CK26.1-2.2 | | Ø12AVI(A1000) | 277.0 | Ø12AVI(A1000) | 84.0 | | 90.9 | | 22.7 | Ø12AVI(A1000) | |
| CK26.1-2.5 | | Ø12K7 | 352.8 | Ø12AI(A240) | 14.6 | | 50.5 | | 23.3 | Ø12AI(A1000) | |
| CK26.1-2.4 | | Ø14K19 | 212.2 | Ø12AV(A800) | 100.7 | | 69.4 | | 23.3 | Ø12AV(A800) | |
| CK26.1-2.3 | | Ø12K7 | 260.0 | Ø12AV(A800) | 66.9 | Ø4BI | 33.6 | | 22.7 | Ø12AV(A800) | |
| CK26.1-3.1 | 25 | Ø12AV(A1000) | 277.0 | Ø12AV(A800) | 268.3 | Ø5BI | 90.9 | | 25.0 | Ø12AV(A800) | |
| CK26.1-3.4 | | Ø14K19 | 212.2 | Ø12AV(A800) | 162.9 | | 69.4 | | 25.6 | Ø12AV(A800) | |
| CK26.1-3.3 | | Ø12K7 | 260.0 | Ø12AV(A800) | 127.7 | | 52.2 | | 25.0 | Ø12AV(A800) | |
| CK26.1-4.1 | | Ø12AV(A800) | 392.5 | Ø12AV(A800) | 37.8 | Ø4BI | 48.1 | | 23.3 | Ø12AV(A800) | |
| CK26.1-5.1 | | Ø12AV(A800) | 277.0 | Ø12AV(A800) | 273.7 | Ø5BI | 90.9 | | 24.4 | Ø12AV(A800) | |
| CK26.1-1.1 | | Ø12AV(A800) | 200.7 | Ø12AV(A800) | 21.7 | | 52.2 | | 24.6 | Ø12AV(A800) | |
| CK26.1-1.2 | | Ø12AVI(1000) | 160.5 | Ø12AVI(1000) | 8.7 | | 52.2 | | 24.5 | Ø12AVI(A1000) | |
| CK26.1-2.1 | | Ø12AV(A800) | 200.7 | Ø12AV(A800) | 55.8 | Ø4BI | 52.2 | | 23.3 | Ø12AV(A800) | |
| CK22.1-2.2 | 25 | Ø12AVI(1000) | 200.7 | Ø12AVI(1000) | 24.6 | | 52.2 | | 23.3 | Ø12AVI(A1000) | |
| CK22.1-3.1 | | Ø12AV(A800) | 160.6 | Ø12AV(A800) | 2.7 | | 51.5 | | 24.6 | Ø12AV(A800) | |
| CK22.1-3.2 | | Ø12AVI(A1000) | 120.4 | Ø12AVI(A1000) | 9.2 | | 52.2 | | 24.5 | Ø12AVI(A1000) | |
| CK26.1-6.1<br>CK26.1-6.2 | | Ø12AV(A800)<br>Ø12AVI(A1000) | 461.8<br>415.6 | Ø12AV(A800)<br>Ø12AVI(A1000) | 25.1<br>49.0 | | 50.0<br>44.7 | | 27.6<br>27.6 | Ø12AV(A800)<br>Ø12AVI(A1000) | |
| CK26.2-1.1 | | Ø12AV(A800) | 461.8 | Ø12AV(A800) | 31.8 | | 58.4 | | 25.0 | Ø12AV(A800) | |
| CK26.2-1.2 | | Ø12AVI(A1000) | 415.6 | Ø12AVI(A1000) | 20.2 | | 58.4 | | 25.0 | Ø12AVI(A1000) | |

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1 – bo’ylama armatura; 2-montaj xalqalari; 3-o‘rnatma mahsulotlar; 4-spiral; a-ustunning tashqi yuzasidan bo’ylama armaturaning o’qigacha masofa;

$C_0$-$C_{II}$-o’rnatma mahsulotlar; o.m-og’irlik markazi;

L-ustun uzunligi; $l_m$-og’irlik markazigacha masofa;

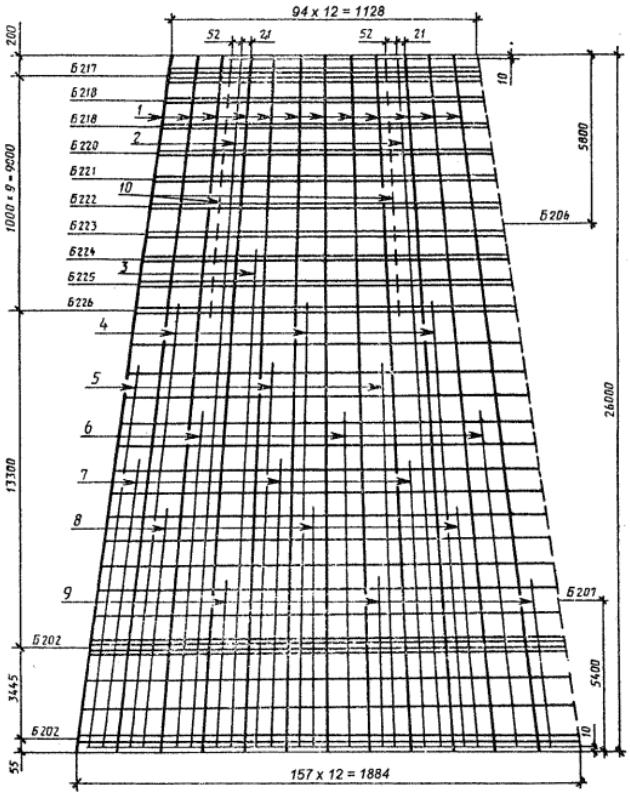
$L_y$,$L_d$-diafragmalar o‘rnatilgan joydan masofa;

$D_1$,$d_1$-ustunning ichki diametrlari;

$D_s$,$d_s$- ustunning tashqi diametrlari

A.1-rasm

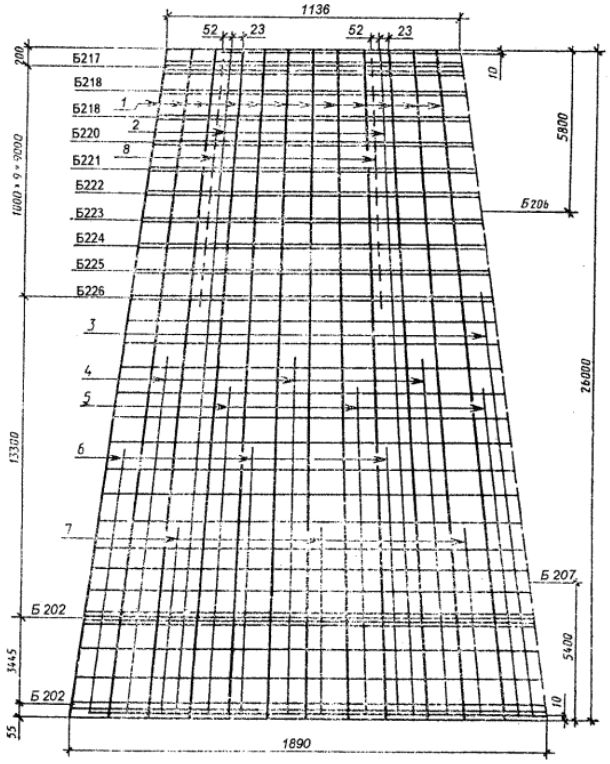
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




Ск 26.1-1.0

Ustunni armaturalash (yoyilgan holatda)

A.2-rasm

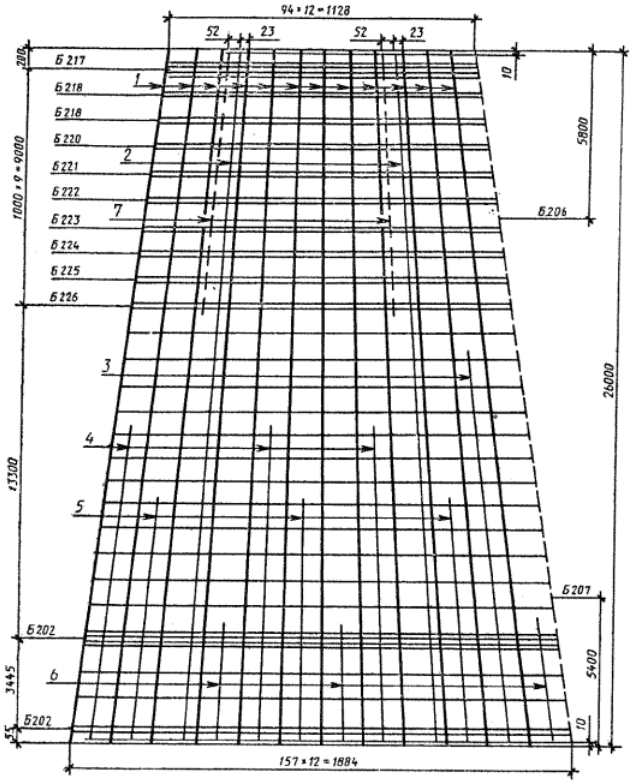



Ск 26.1-1.1

Ustunni armaturalash (yoyilgan holatda)

A.3-rasm

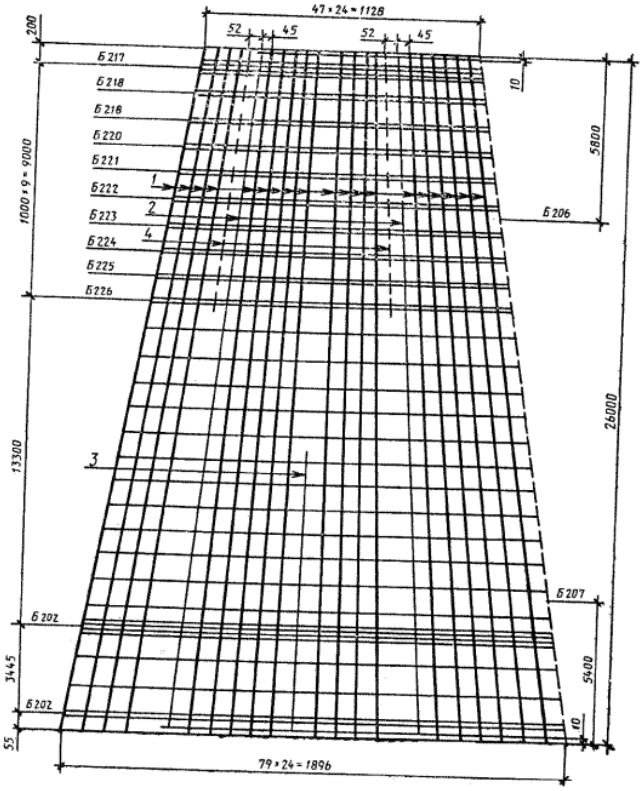
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Ск 26.1-1.2

Ustunni armaturalash (yoyilgan holatda)

A.4-rasm

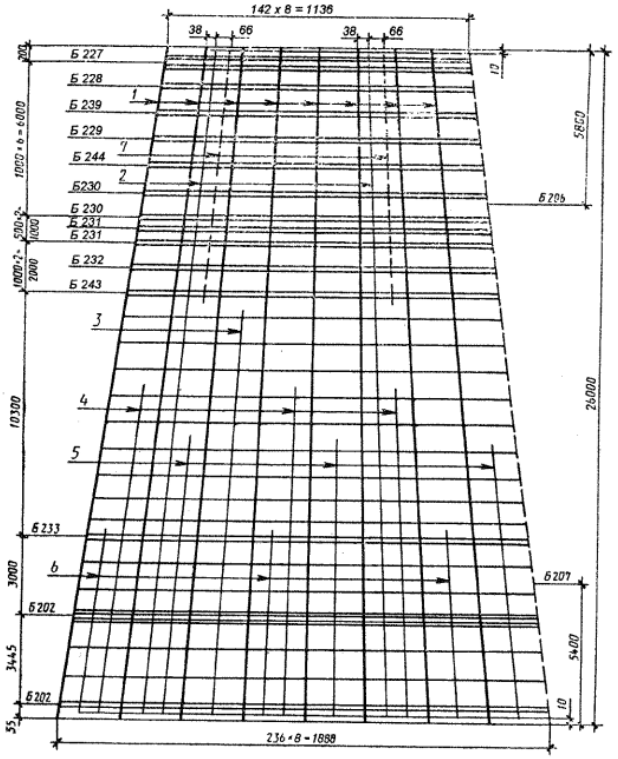



Ск 26.1-1.5

Ustunni armaturalash (yoyilgan holatda)

A.5-rasm

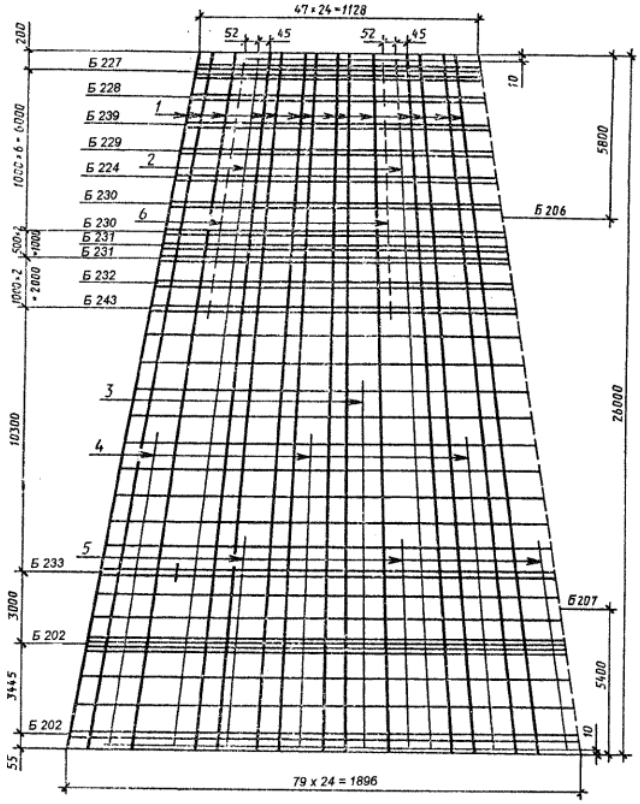
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Ск 26.1-1.4

Ustunni armaturalash (yoyilgan holatda)

A.6-rasm

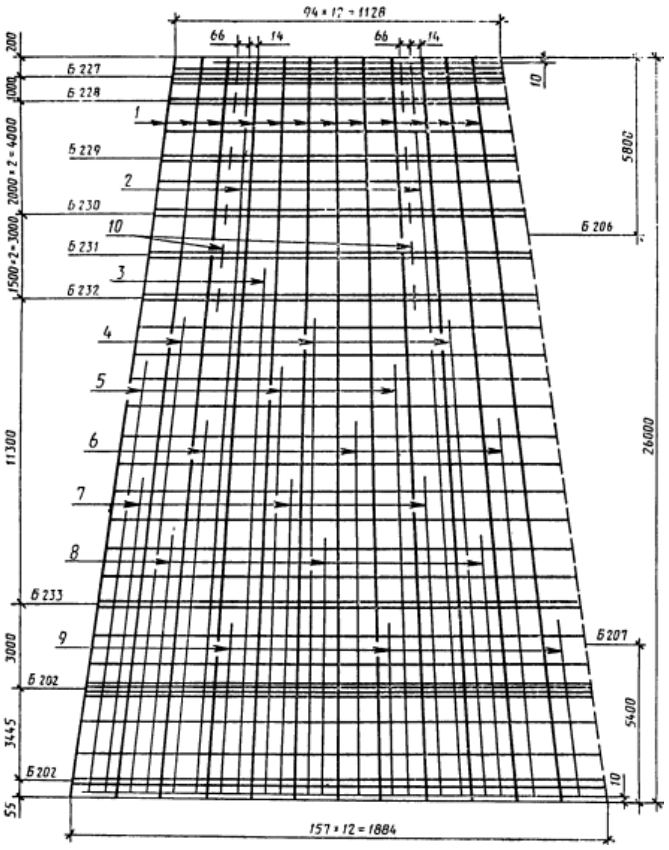



Ск 26.1-1.3

Ustunni armaturalash (yoyilgan holatda)

A.7-rasm

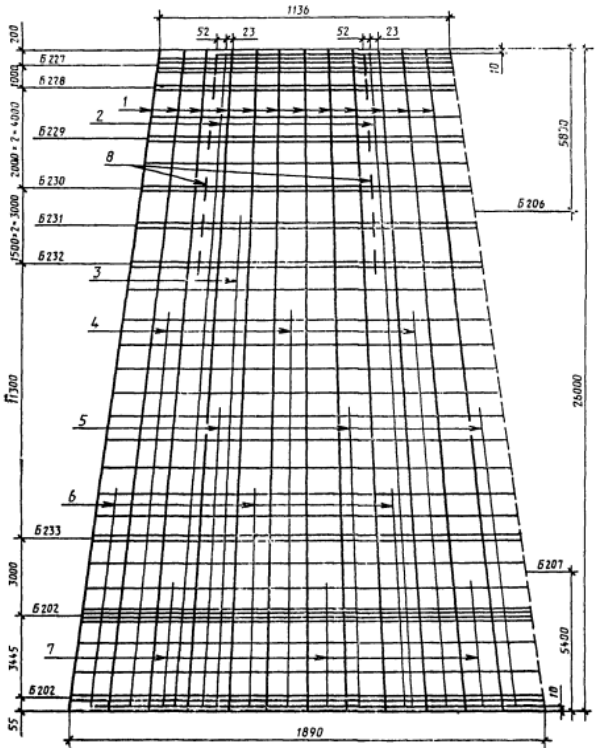
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Ск 26.1-2.0

Ustunni armaturalash (yoyilgan holatda)

A.8-rasm

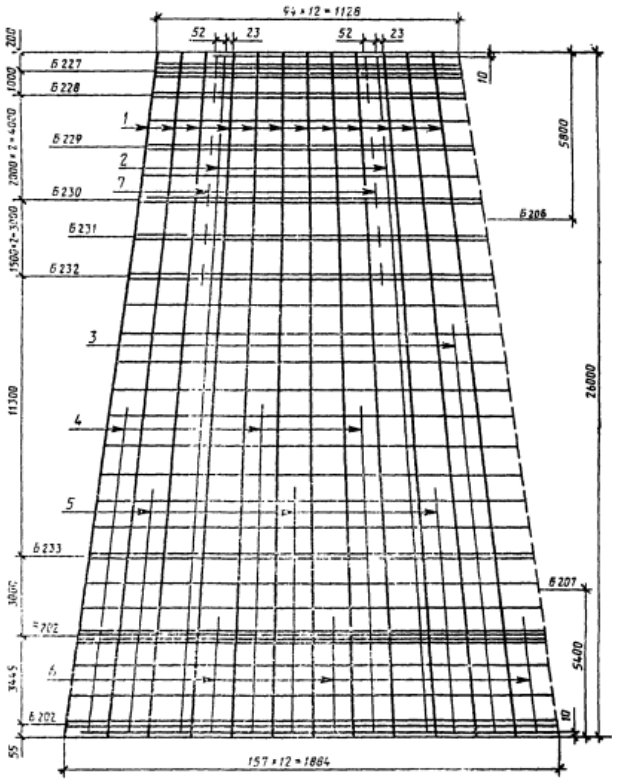



Ск 26.1-2.1

Ustunni armaturalash (yoyilgan holatda)

A.9-rasm

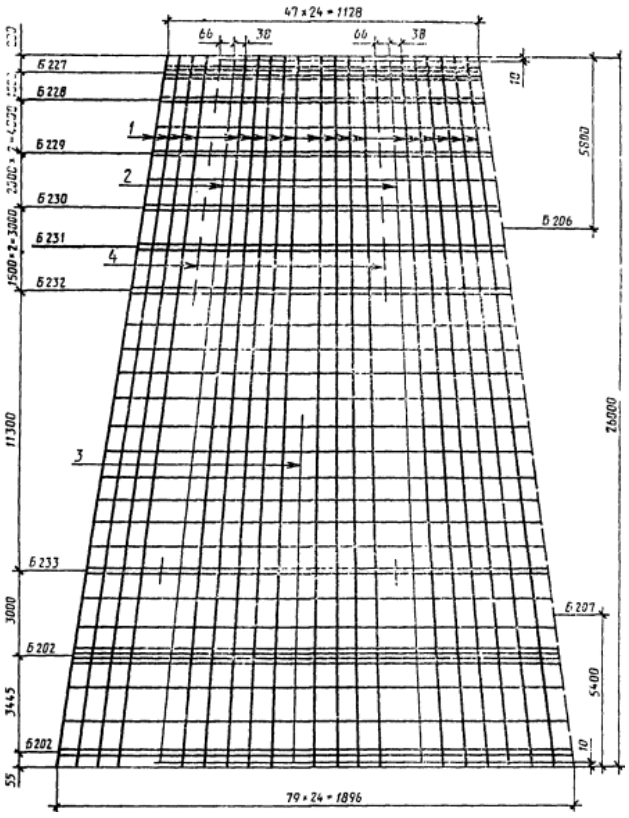
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Ск 26.1-2.2

Ustunni armaturalash (yoyilgan holatda)

A.10-rasm

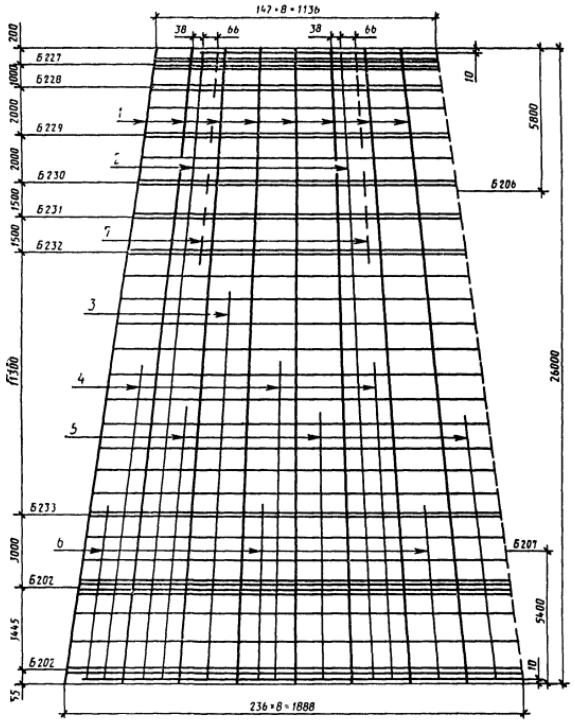



Ск 26.1-2.5

Ustunni armaturalash (yoyilgan holatda)

A.11-rasm

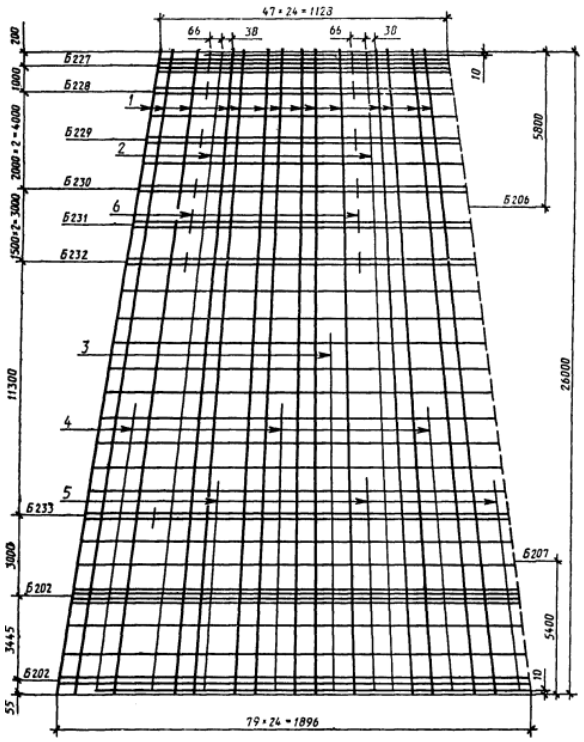
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Ск 26.1-2.4

Ustunni armaturalash (yoyilgan holatda)

A.12-rasm

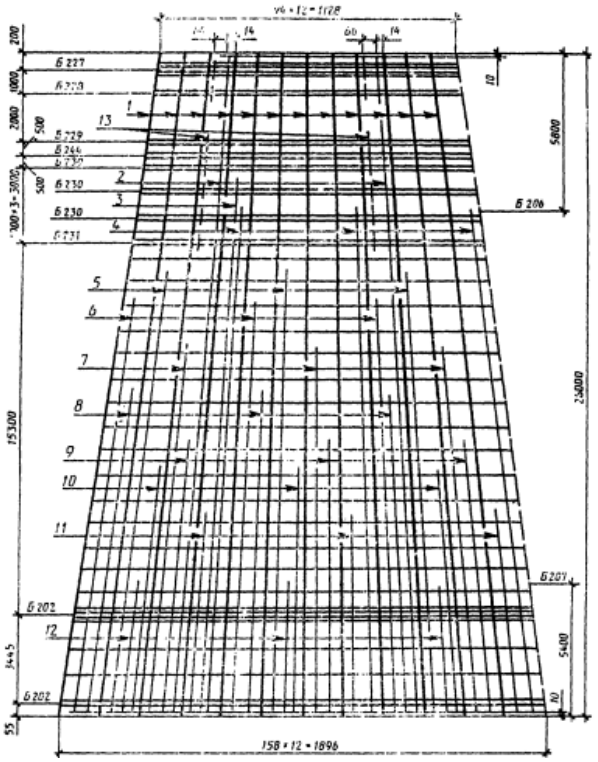



Ск 26.1-2.3

Ustunni armaturalash (yoyilgan holatda)

A.13-rasm

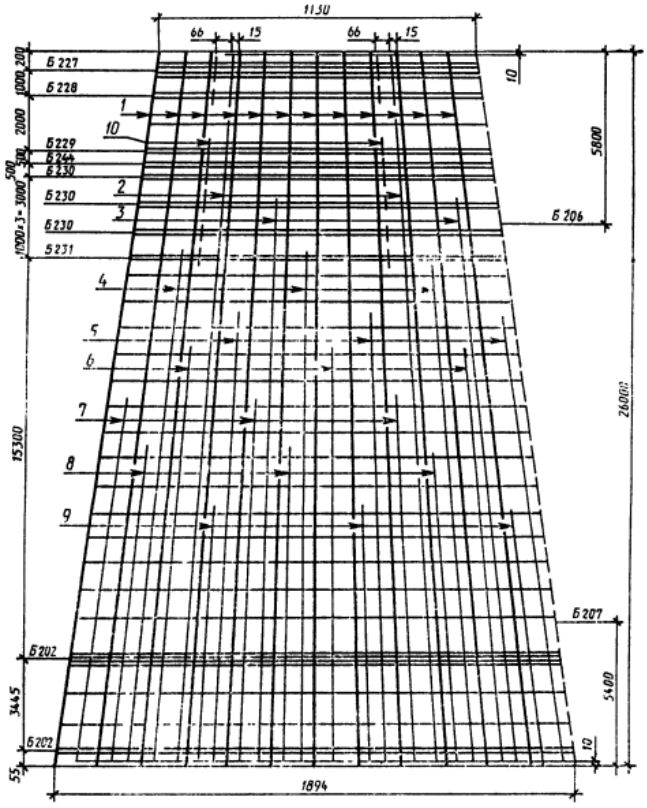
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Ск 26.1-2.0

Ustunni armaturalash (yoyilgan holatda)

A.14-rasm

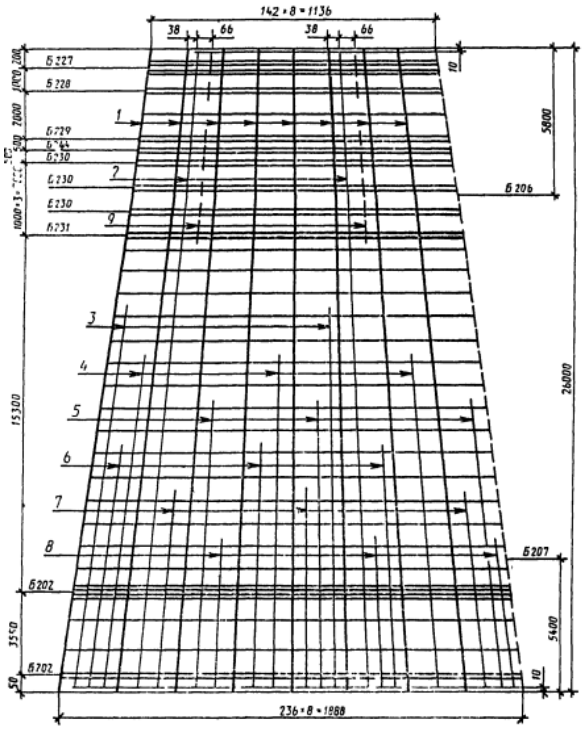


Ск 26.1-3.1

Ustunni armaturalash (yoyilgan holatda)

A.15-rasm

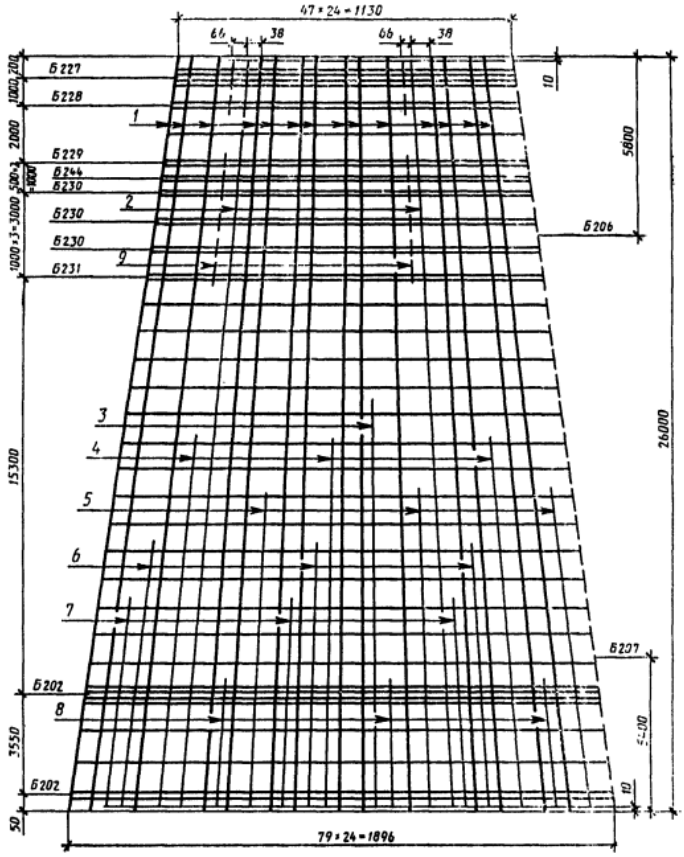
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Ск 26.1-3.4

Ustunni armaturalash (yoyilgan holatda)

A.16-rasm

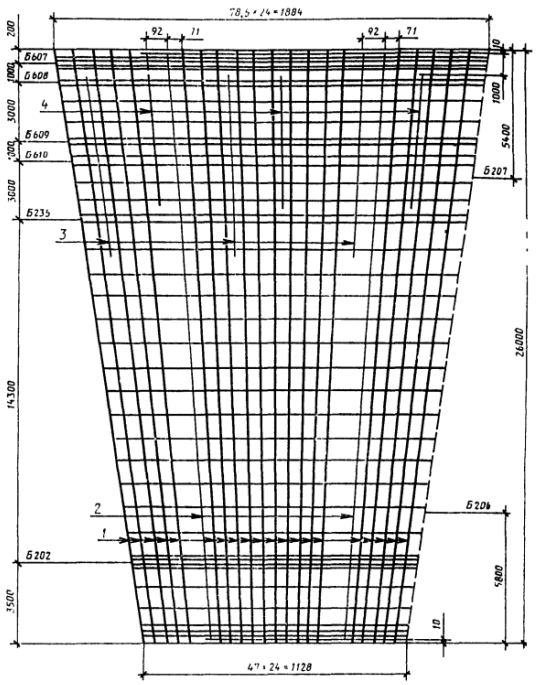



Ск 26.1-3.3

Ustunni armaturalash (yoyilgan holatda)

A.17-rasm

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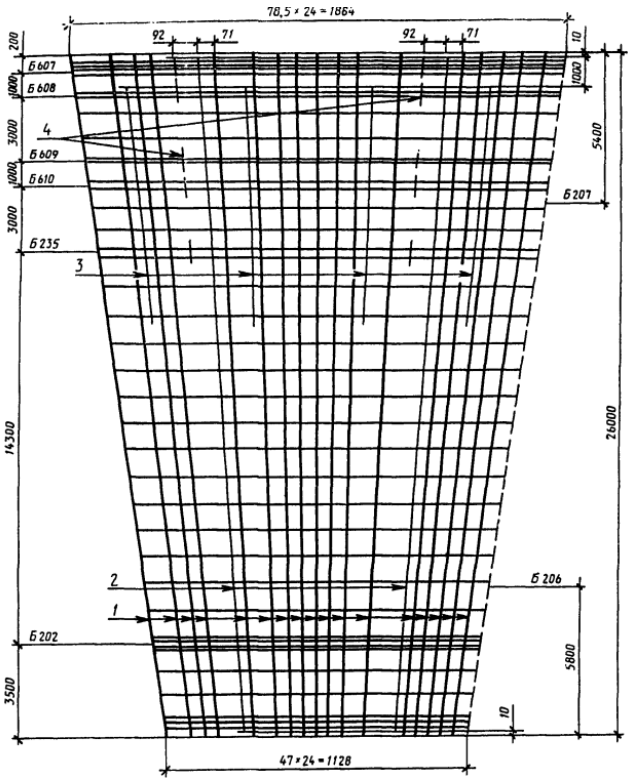



Ск 26.1-4.0

Ustunni armaturalash (yoyilgan holatda)

A.18-rasm

*Izoh: Ustunlarning tor uchi pastga qaratib o‘rnatiladi*



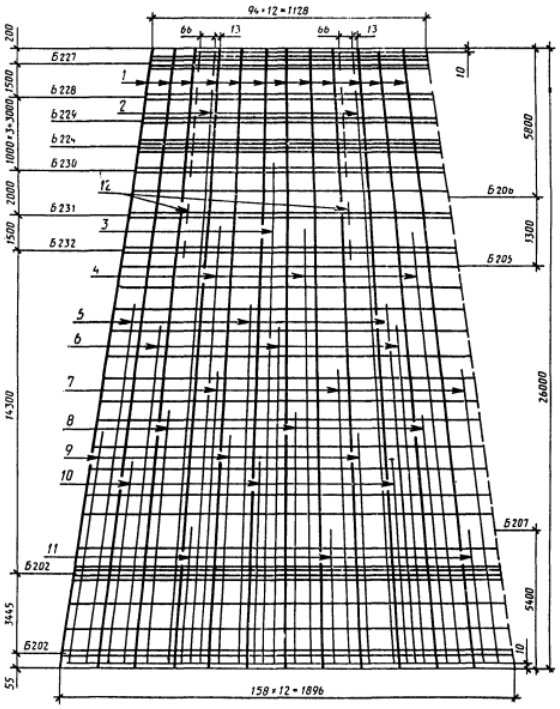

Ск 26.1-4.1

Ustunni armaturalash (yoyilgan holatda)

A.19-rasm

*Izoh: Ustunlarning tor uchi pastga qaratib o‘rnatiladi*

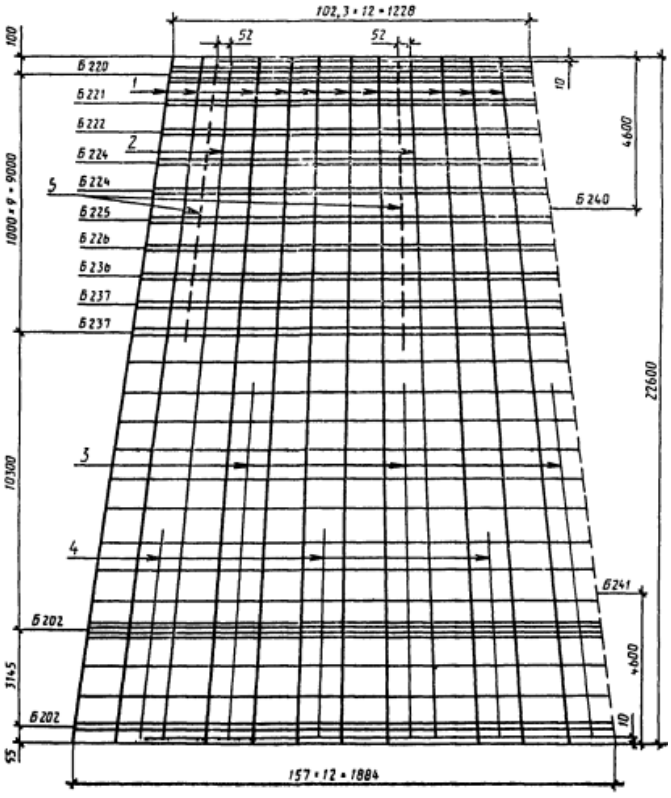
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Ск 26.1-4.1

Ustunni armaturalash (yoyilgan holatda)

A.20-rasm

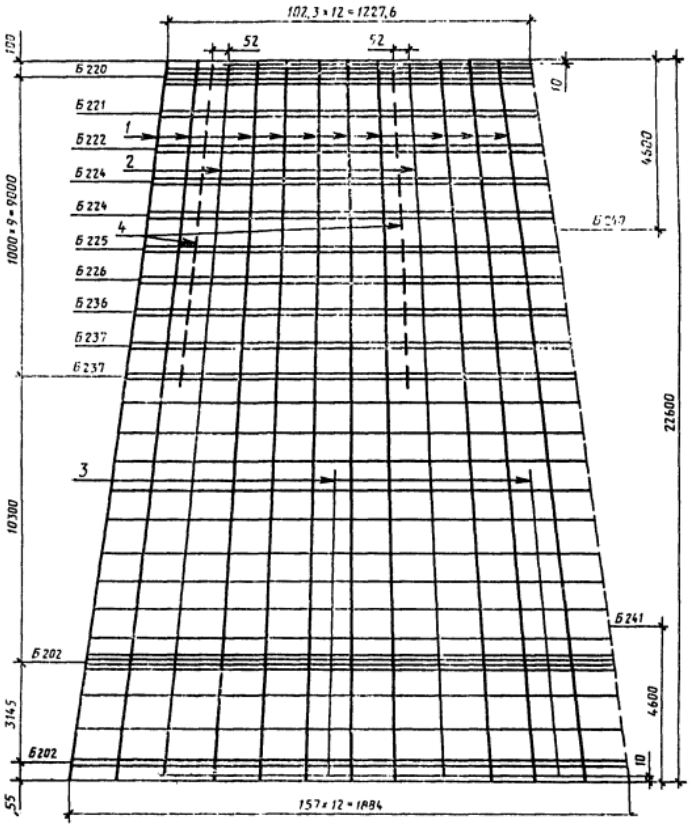


Ск 22.1-1.0

Ustunni armaturalash (yoyilgan holatda)

A.21-rasm

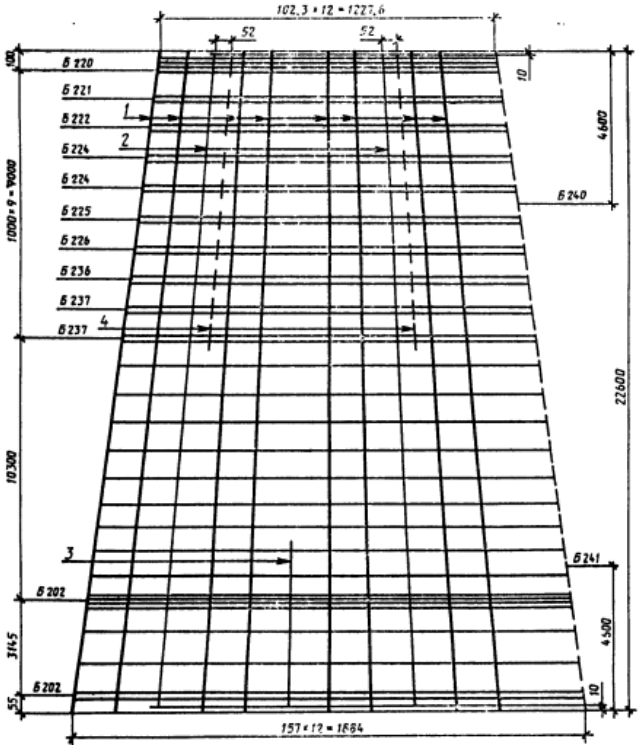
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Ск 22.1-1.1

Ustunni armaturalash (yoyilgan holatda)

A.22-rasm

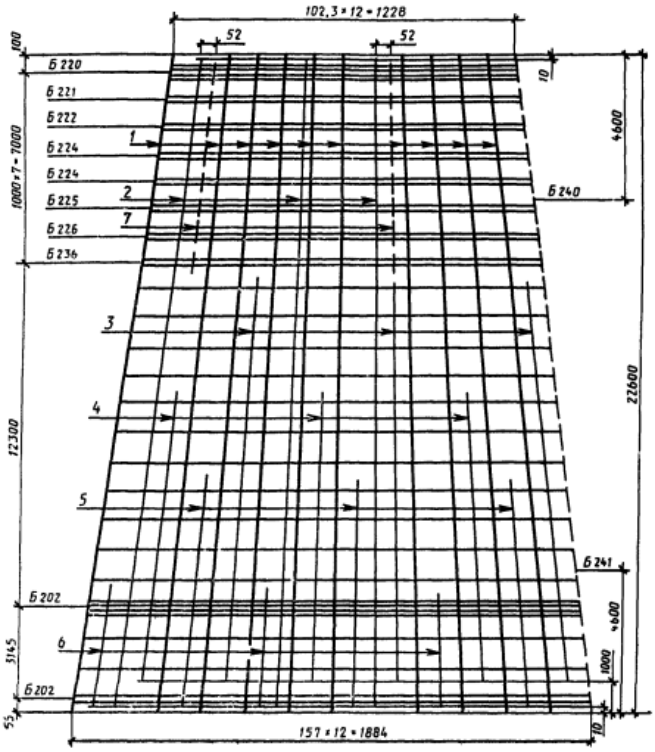



Ск 22.1-1.2

Ustunni armaturalash (yoyilgan holatda)

A.23-rasm

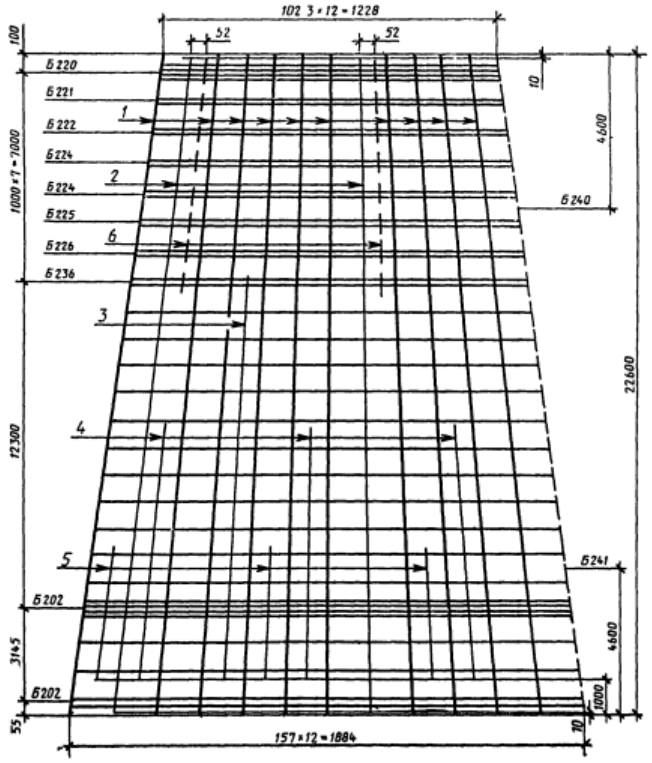
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDARTLASHTIRISH" MCHJ




Ск 22.1-2.0

Ustunni armaturalash (yoyilgan holatda)

A.24-rasm

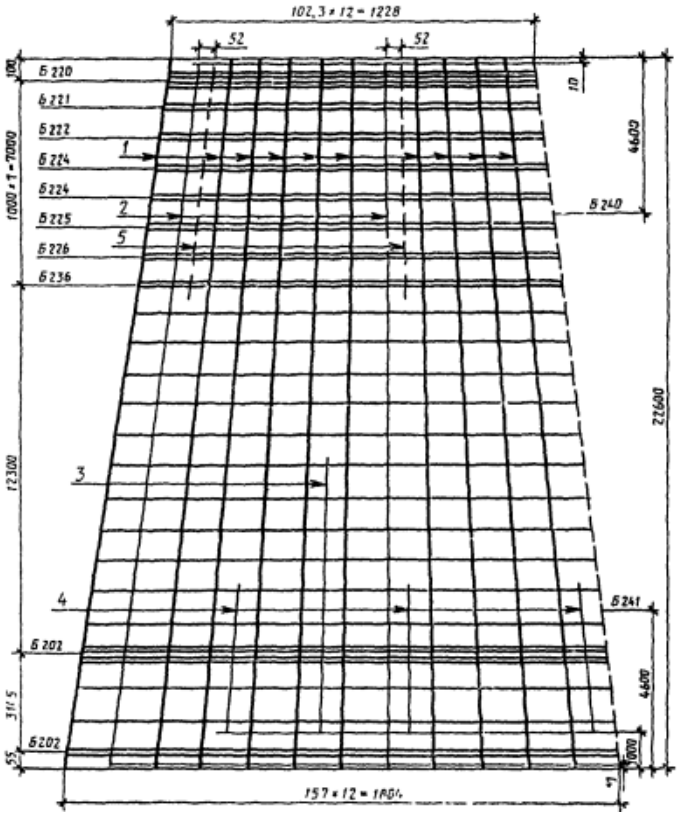



Ск 22.1-2.1

Ustunni armaturalash (yoyilgan holatda)

A.25-rasm

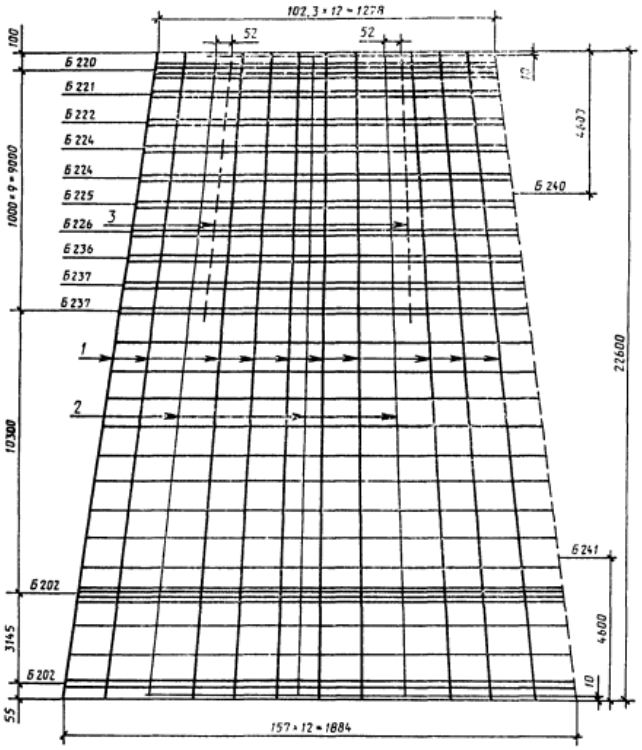
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Ск 22.1-2.2

Ustunni armaturalash (yoyilgan holatda)

A.26-rasm

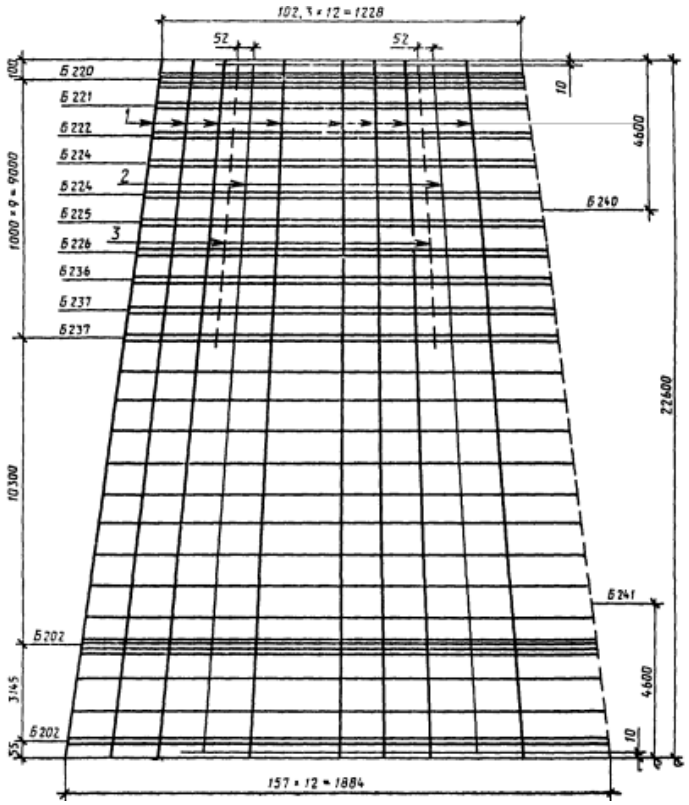



Ск 22.1-3.0

Ustunni armaturalash (yoyilgan holatda)

A.27-rasm

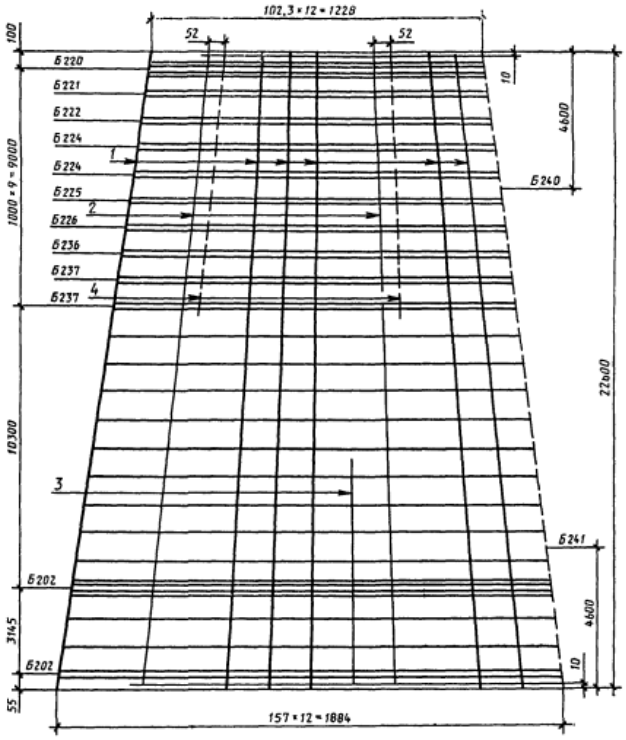
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Ск 22.1-3.1

Ustunni armaturalash (yoyilgan holatda)

A.28-rasm

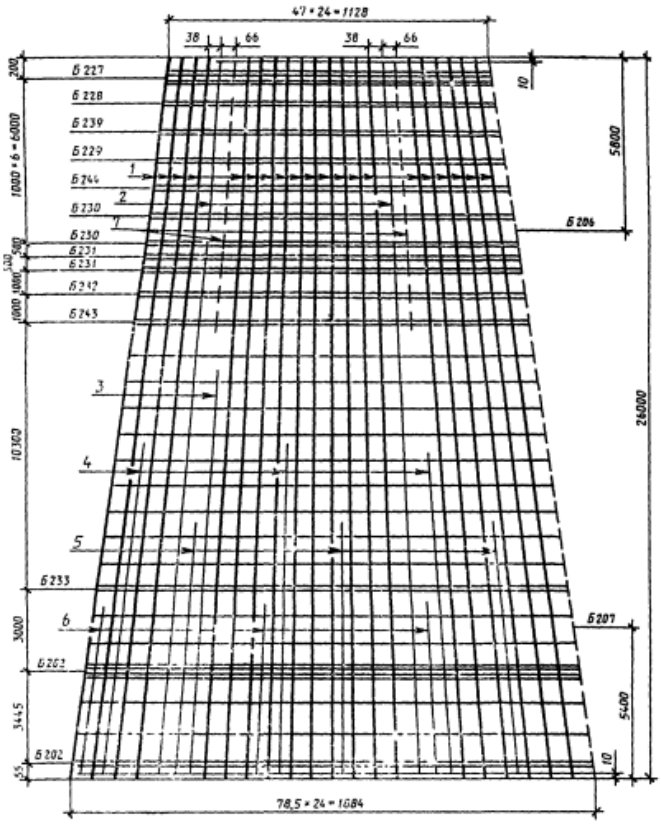



Ск 22.1-3.2

Ustunni armaturalash (yoyilgan holatda)

A.29-rasm

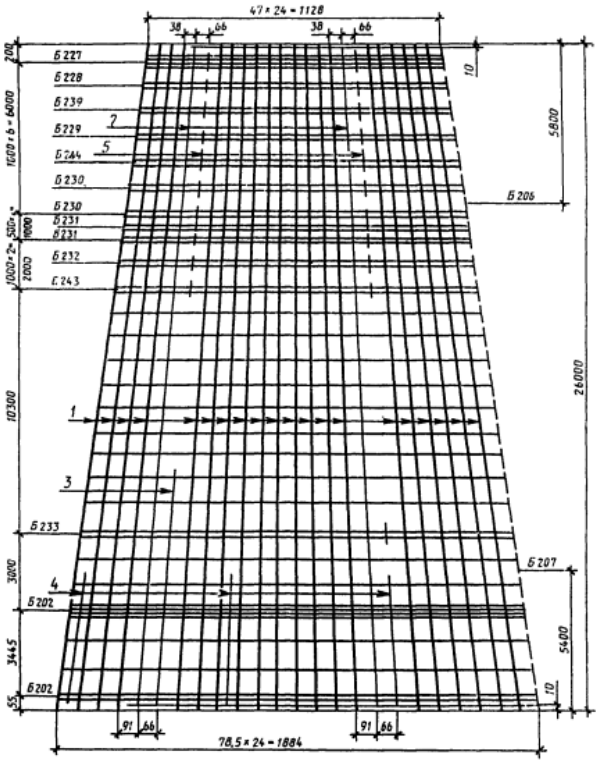
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Ск 26.1-6.0

Ustunni armaturalash (yoyilgan holatda)

A.30-rasm

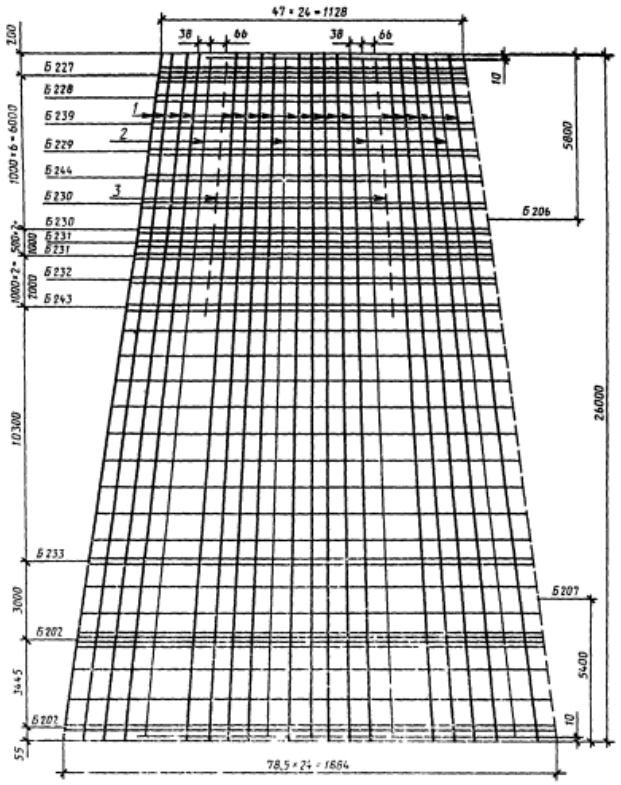



Ск 26.1-6.1

Ustunni armaturalash (yoyilgan holatda)

A.31-rasm

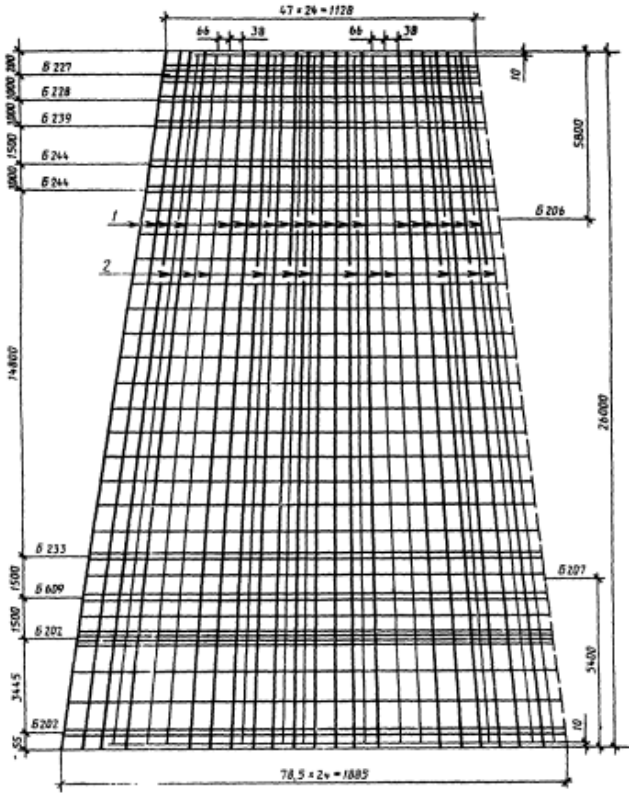
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Ск 26.1-6.2

Ustunni armaturalash (yoyilgan holatda)

A.32-rasm

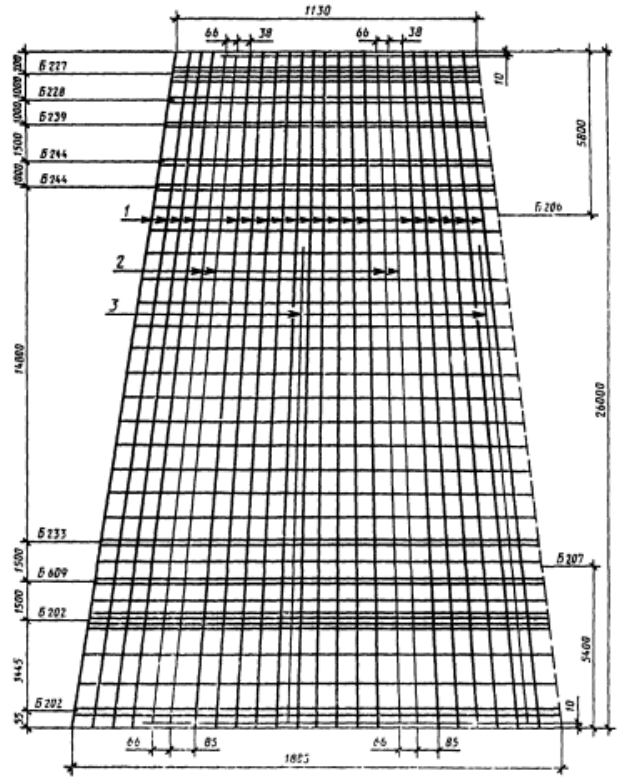



Ск 26.2-1.0

Ustunni armaturalash (yoyilgan holatda)

A.33-rasm

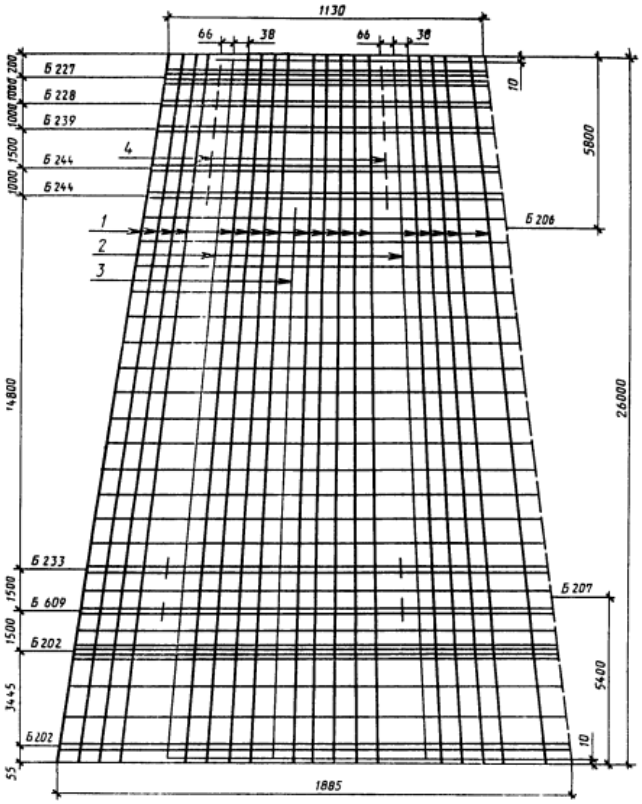
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Ск 26.2-1.1

Ustunni armaturalash (yoyilgan holatda)

A.34-rasm

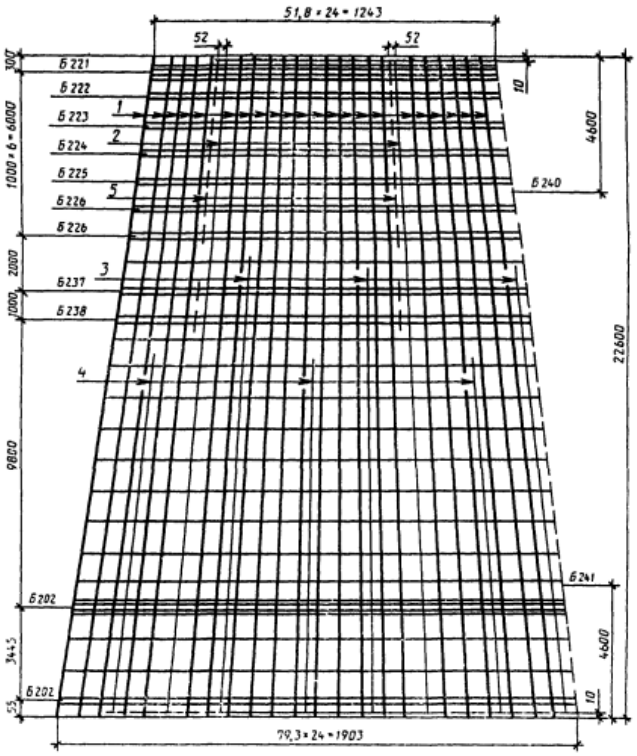



Ск 26.2-1.2

Ustunni armaturalash (yoyilgan holatda)

A.35-rasm

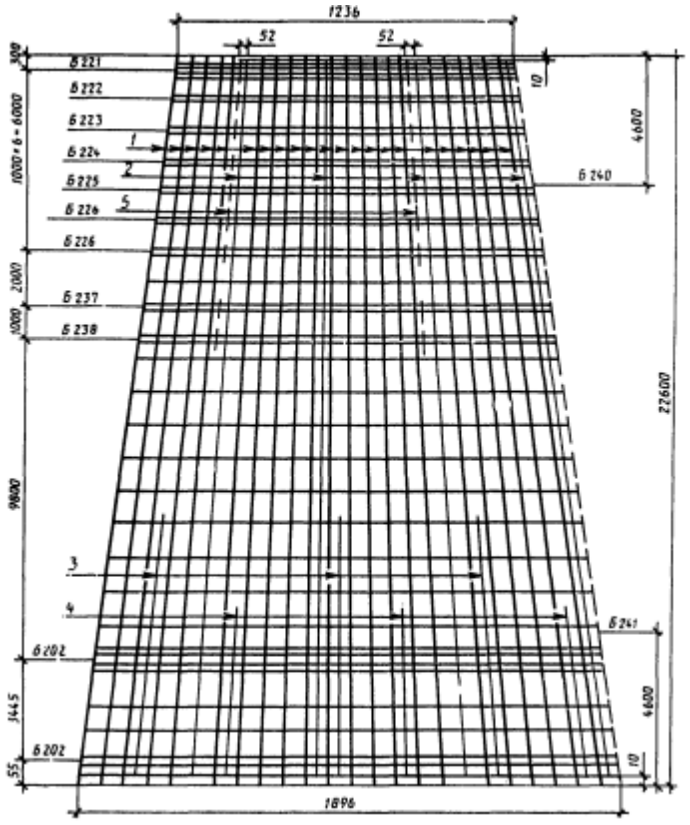
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Ск 22-1.0

Ustunni armaturalash (yoyilgan holatda)

A.36-rasm

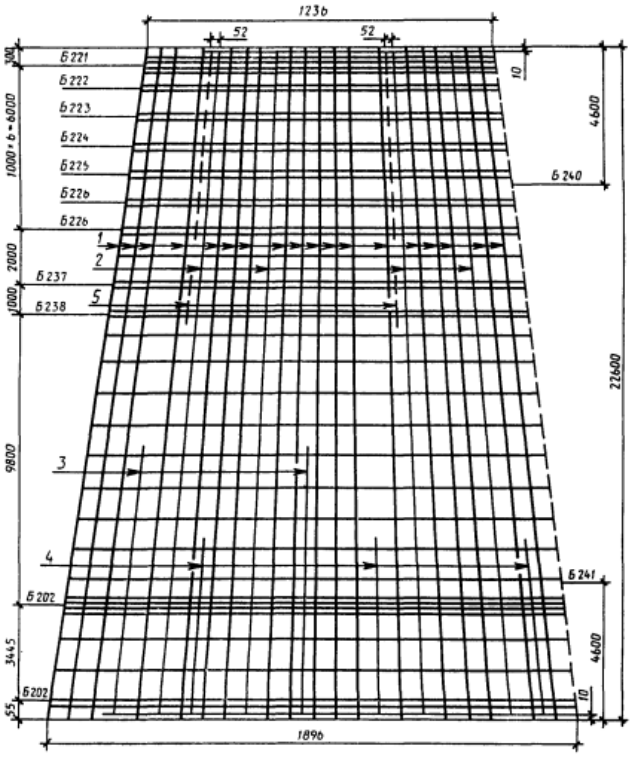



Ск 22.2-1.1

Ustunni armaturalash (yoyilgan holatda)

A.37-rasm

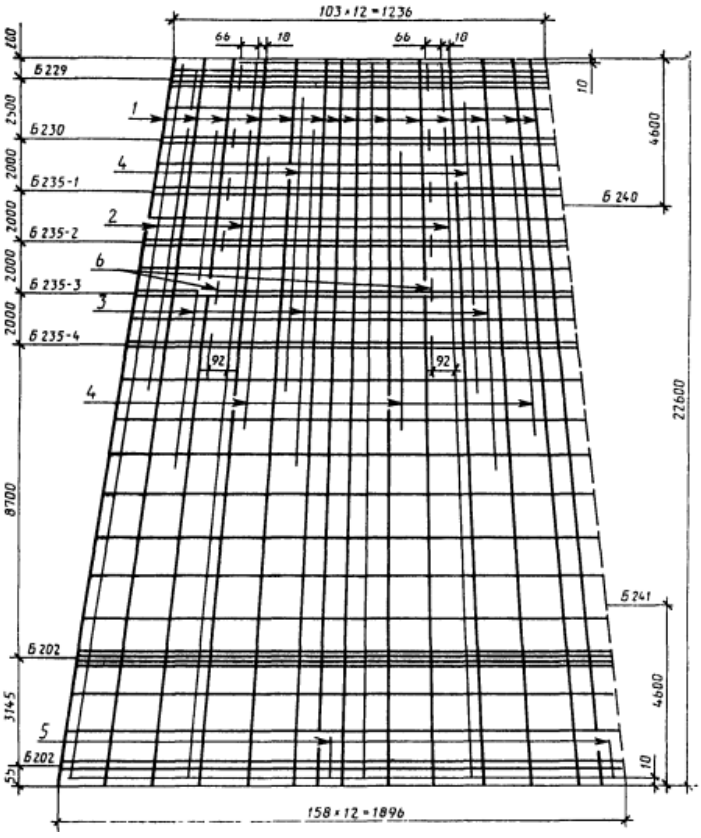
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Ск 22.2-1.2

Ustunni armaturalash (yoyilgan holatda)

A.38-rasm

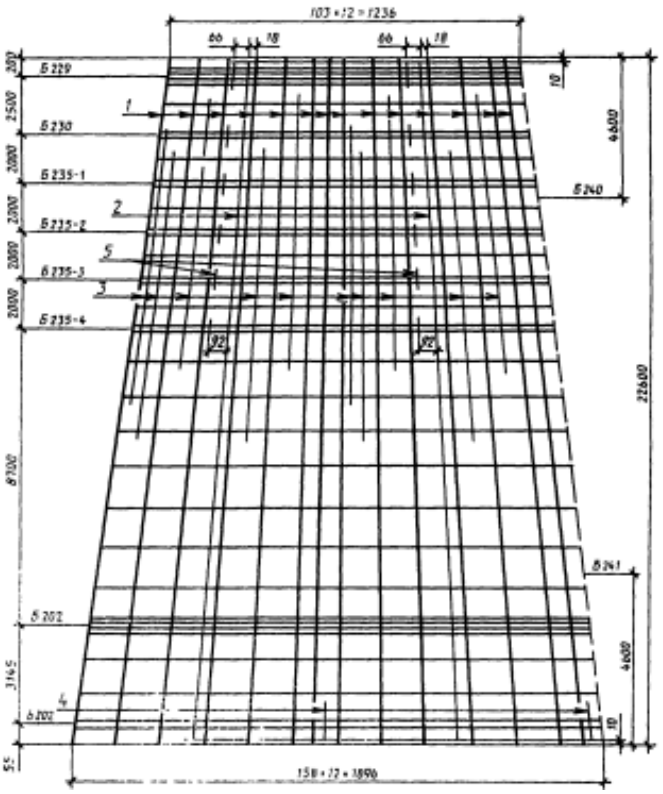



Ск 22.3-1.0

Ustunni armaturalash (yoyilgan holatda)

A.39-rasm

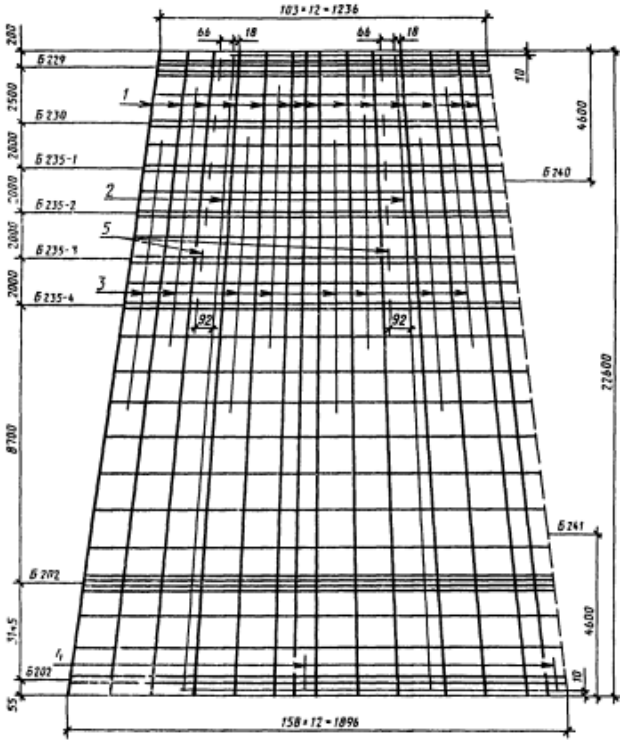
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Ск 22.3-1.1

Ustunni armaturalash (yoyilgan holatda)

A.40-rasm

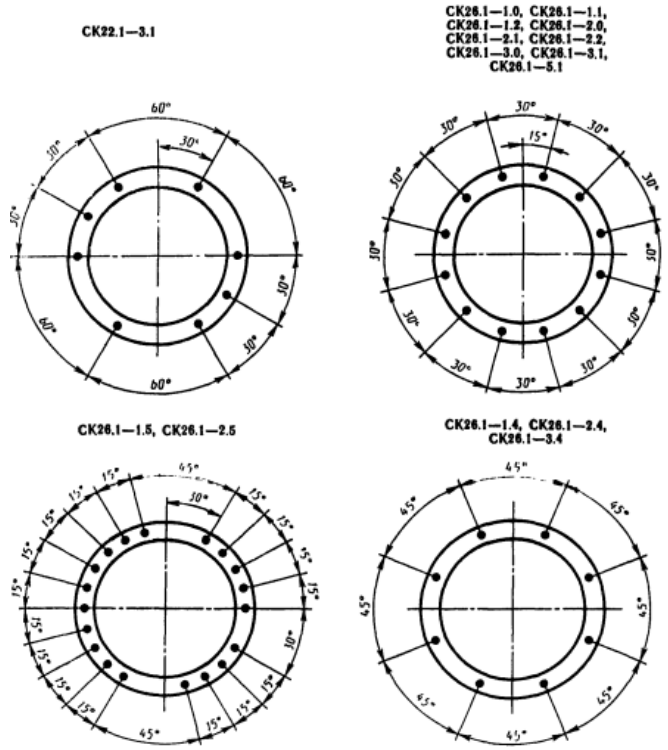


Ск 22.3-1.2

Ustunni armaturalash (yoyilgan holatda)

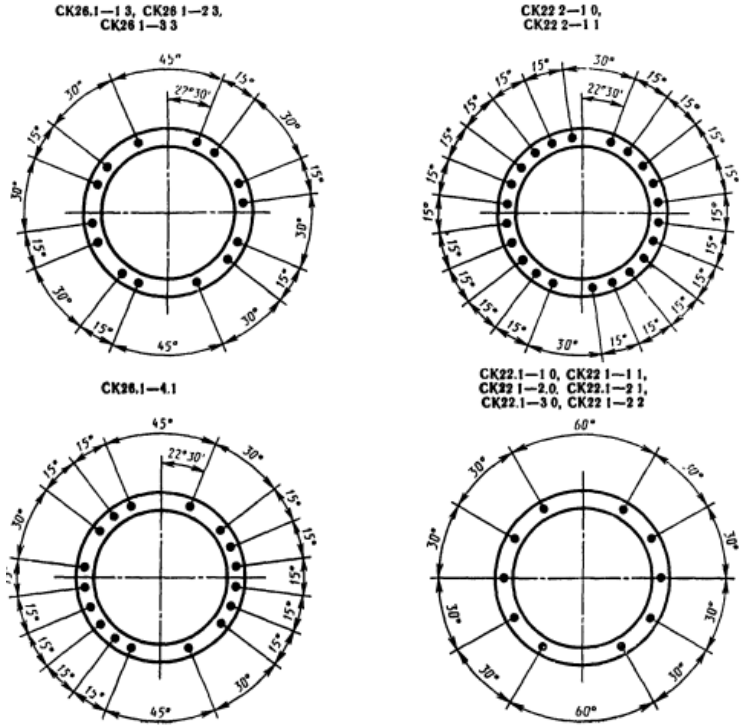
A.41-rasm

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СК 26.1-1.0, СК 26.1-1.1, СК 26.1-1.2, СК 26. 1-2.0, СК 26.1 - 2.1, СК 26.1-2.2, СК 26.1-3.0, СК 26.1-3.1, СК 26.1-5.1, СК 26.1-1.5, СК 26.1-2.5, СК 26.1-1.4, СК 26.1-2.4, СК 26.1-3.4, СК 22.1-3.1 markali ustunlarda zo’riqtiriladigan sterjenlarning joylashishi (traverslarning o‘rnatma buyumlari vertikal o‘q bo’yicha joylashtirilgan)

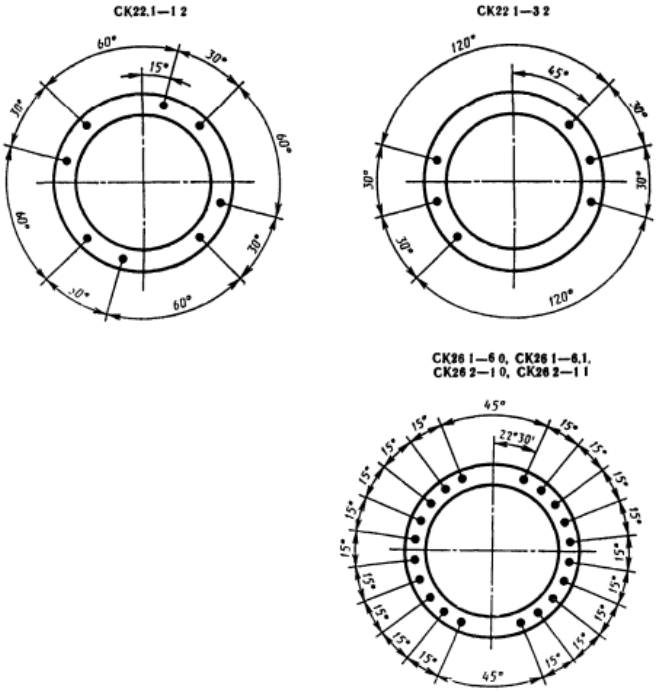
A.42-rasm




СК 26.1-1.3, СК 26.1-2.3, СК 26.1-3.3, СК 22.2-1.1, СК 26.1-4.1, СК 22.1-1.0, СК 22.1-1.1, СК 22.1-2.0, СК 22.1-2.1, СК 22.1-3.0, СК 22.2-1.0, СК 22.1-2.2 markali ustunlarda zo’riqtiriladigan sterjenlarning joylashishi ( traverslarning o’rnatma buyumlari vertikal o‘q bo’yicha joylashtirilgan)

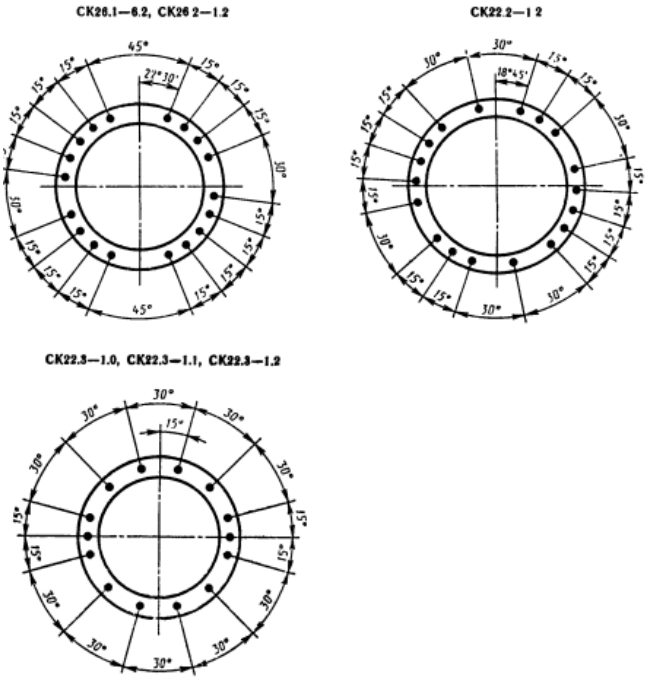
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A.43-rasm




СК 22.1-1.2, СК 22.1-3.2, СК 26.1-6.0, СК 26.1-6.1, СК 26.2-1.0, СК 26.2-1.1 markali ustunlarda zo’riqtiriladigan sterjenlarning joylashishi ( traverslarning o‘rnatma buyumlari vertikal o‘q bo’yicha joylashtirilgan)

A.44-rasm

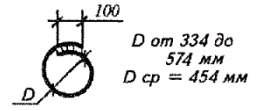
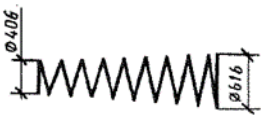
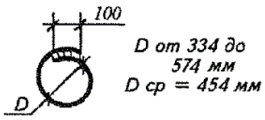
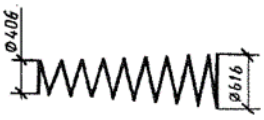
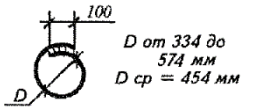


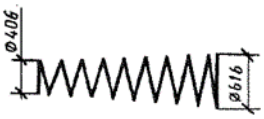
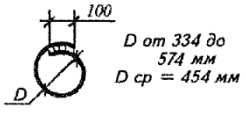

СК 26.2-1.2, СК 22.2-1.2, СК 22.3-1.1, СК 22.3-1.2, СК 26.1-6.2, СК 22.3-1.0 markali ustunlarda zo’riqtiriladigan sterjenlarning joylashishi ( traverslarning o‘rnatma buyumlari vertikal o‘q bo’yicha joylashtirilgan)

A.45-rasm

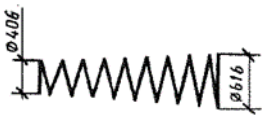
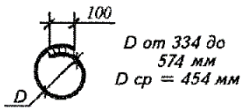
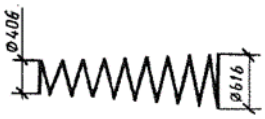
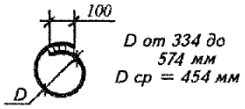
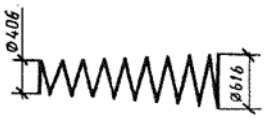
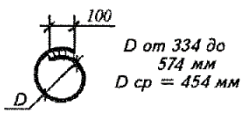
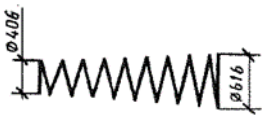
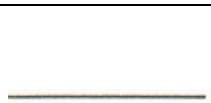
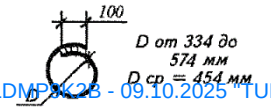
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A.3-jadval. Xar bir element uchun armaturalash loyiha tasnifi

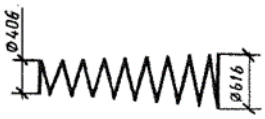
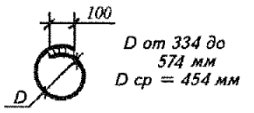
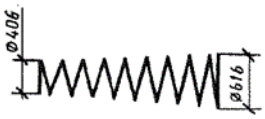
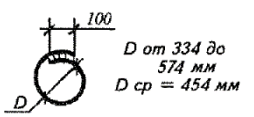
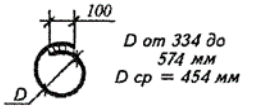
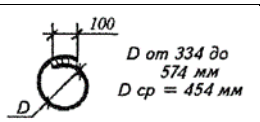
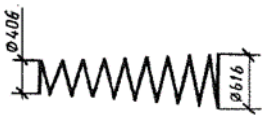
| Ustun belgilanishi | Eskiz | Pozitsiya raqami | Diametr, mm | Uzunlik, mm | Pozitsiyalar miqdori | Umumiy uzunlik, mm |
|---|---|---|---|---|---|---|
| CK26.1-1.1 | | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800) | 26000<br>25980<br>16400<br>14500<br>12600<br>10500<br>7000<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>20 | 213,0<br>52,0<br>16,4<br>43,5<br>37,8<br>31,5<br>21,0<br>3,0 |
| |  | | Ø8AI(A240) | $I_{ср}$=1550 | 42 | 65,1 |
| |  | | Ø4BI | - | - | 590,0 |
| CK26.1-1.2 | | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 26000<br>25980<br>15100<br>12500<br>9000<br>4400<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>20 | 312,0<br>52,0<br>15,1<br>37,5<br>27,0<br>13,2<br>3,0 |
| |  | | Ø8AI(A240) | $I_{ср}$=1550 | 42 | 65,1 |
| |  | | Ø4BI | - | - | 452,0 |
| CK26.1-1.5 | | 1<br>2<br>3<br>4<br>5 | Ø12K7<br>Ø12AI(A240)<br>Ø12AI(A240)<br>Ø12AI(A240)<br>Ø12AI(A240) | 26000<br>25980<br>13300<br>150<br>500 | 19<br>2<br>1<br>20<br>2 | 494,0<br>52,0<br>13,3<br>3,0<br>1,0 |
| |  | | Ø8AI(A240) | $I_{ср}$=1550 | 42 | 65,1 |

| Ustun belgilanishi | Eskiz | Pozitsiya raqami | Diametr, mm | Uzunlik, mm | Pozitsiyalar miqdori | Umumiy uzunlik, mm |
|---|---|---|---|---|---|---|
| CK26.1-1.5 |  | | Ø4BI | - | - | 328,0 |
| CK26.1-1.4 | | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø14K7<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800) | 26000<br>25980<br>15600<br>13500<br>10900<br>7000<br>150 | 1<br>3<br>3<br>3<br>24 | 208,0<br>52,0<br>15,6<br>40,5<br>32,7<br>21,0<br>3,6 |
| |  | | Ø8AI(A240) | $I_{ср}$=1455 | 42 | 61,1 |

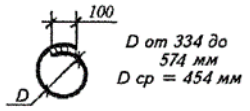
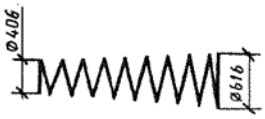
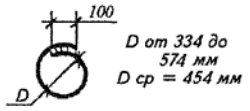
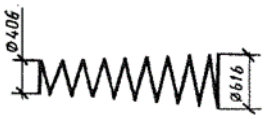
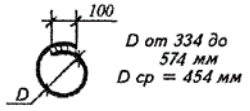
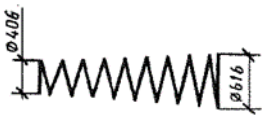
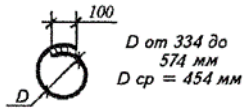
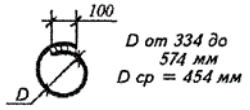
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| | | | | | | |
|---|---|---|---|---|---|---|
| |  | | Ø5BI | - | - | 451,0 |
| CK26.1-1.3 |  | 1<br>2<br>3<br>4<br>5<br>6 | Ø12K7<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800)<br>Ø12AV(800) | 26000<br>25980<br>14100<br>11600<br>8200<br>150 | 14<br>2<br>1<br>3<br>3<br>20 | 364,0<br>52,0<br>14,1<br>34,8<br>24,6<br>3,0 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 42 | 65,1 |
| |  | | Ø4BI | - | - | 339,0 |
| CK26.1-2.1 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>19700<br>15800<br>11900<br>8600<br>4900<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>12 | 312,0<br>52,0<br>19,7<br>47,4<br>35,7<br>25,8<br>14,7<br>1,8 |
| CK26.1-2.1 |  | | Ø8AI(A240) | $I_{cp}$=1550 | 38 | 58,9 |
| |  | | Ø5BI | | | 590,0 |
| CK26.1-2.2 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 26000<br>25980<br>15100<br>12500<br>9000<br>4400<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>12 | 312,0<br>52,0<br>15,1<br>37,5<br>27,0<br>13,2<br>1,8 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 37 | 57,3 |
| |  | | Ø5BI | - | - | 590,0 |
| CK26.1-2.5 |  | 1<br>2<br>3<br>4<br>5 | Ø12K7<br>Ø12AI (A240)<br>Ø12AI (A240)<br>Ø12AI (A240)<br>Ø12AI (A240) | 26000<br>25980<br>13300<br>150<br>500 | 19<br>2<br>1<br>14<br>2 | 494,0<br>52,0<br>13,3<br>2,1<br>1,0 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 38 | 58,9 |

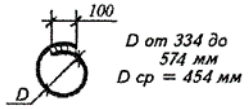
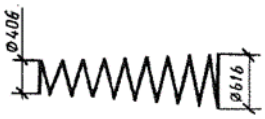
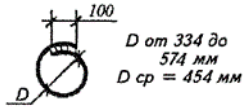
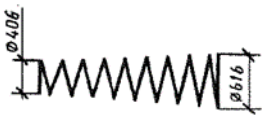
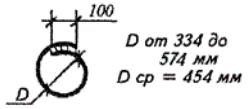
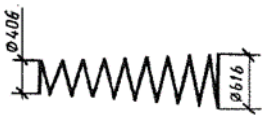
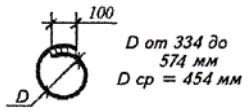
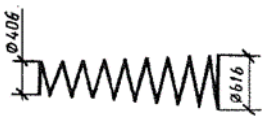
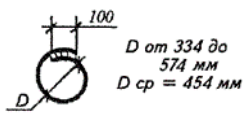
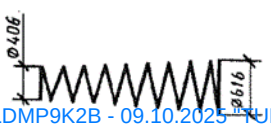
STANDARTLAR INSTITUTI #84LDMP3K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| СК26.1-2.4 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø12К7<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>15600<br>13500<br>10900<br>7000<br>150 | 8<br>2<br>1<br>3<br>3<br>3<br>24 | 208,0<br>52,0<br>15,6<br>40,5<br>32,7<br>21,0<br>3,6 |
| |  | | Ø8AI(A240) | $l_{ср}$=1555 | 38 | 595,1 |
| |  | | Ø5BI | - | - | 451,0 |
| СК26.1-2.3 |  | 1<br>2<br>3<br>4<br>5<br>6 | Ø12К7<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>14100<br>11600<br>8200<br>150 | 14<br>2<br>1<br>3<br>3<br>12 | 364,0<br>52,0<br>14,1<br>34,8<br>24,6<br>1,8 |
| |  | | Ø8AI(A240) | $l_{ср}$=1550 | 37 | 57,3 |
| |  | | Ø4BI | - | - | 339,0 |
| СК26.1-3.1 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>21000<br>19000<br>07000<br>15300<br>03500<br>11700<br>9400<br>150 | 12<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>16 | 312,0<br>52,0<br>42,0<br>57,0<br>51,0<br>45,9<br>40,5<br>35,1<br>28,2<br>2,4 |
| |  | | Ø8AI(A240) | $l_{ср}$=1545 | 41 | 63,4 |
| СК26.1-3.1 |  | | Ø5BI | - | - | 590,0 |
| СК26.1-3.4 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | Ø14К19<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>15600<br>13500<br>11700<br>10100<br>8200<br>6100<br>150<br>500 | 8<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>16<br>2 | 208,0<br>52,0<br>31,2<br>40,5<br>35,1<br>30,3<br>24,6<br>18,3<br>2,4<br>1,0 |
| |  | | Ø8AI(A240) | $l_{ср}$=1545 | 42 | 64,9 |
| |  | | Ø5BI | - | - | 451,0 |
| СК26.1-3.3 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | Ø12К7<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>14500<br>12500<br>10600<br>8800<br>6500<br>3900<br>150 | 14<br>2<br>1<br>3<br>3<br>3<br>3<br>3<br>16 | 364,0<br>52,0<br>14,5<br>37,5<br>31,8<br>26,4<br>19,5<br>11,7<br>2,4 |

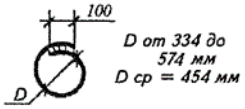
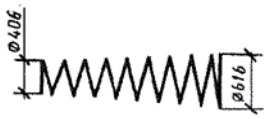
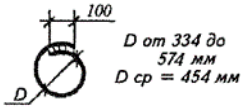
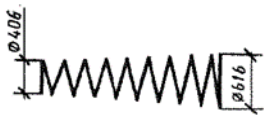
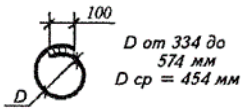
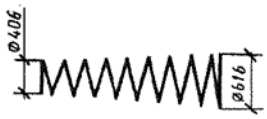
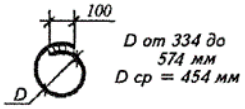
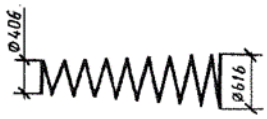
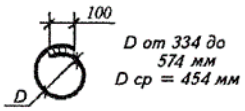
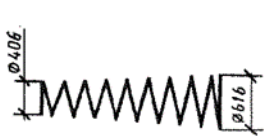
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | Ø8AI(A240) | $I_{cp}$=1545 | 41 | 63,4 |
| |  | | Ø5BI | - | - | 339,0 |
| СК26.1-4.1 |  | 1<br>2<br>3<br>4 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>9400<br>500 | 17<br>2<br>4<br>10 | 442,0<br>52,0<br>37,6<br>5,0 |
| | | | Ø8AI(A240) | $I_{cp}$=1545 | 38 | 59,0 |
| |  | | Ø4BI | - | - | 486,0 |
| СК26.1-5.1 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AVA(800)<br>Ø12AVA(800)<br>Ø12AVA(800)<br>Ø12AVA(800)<br>Ø12AVA(800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>21700<br>18800<br>15200<br>14200<br>12300<br>10600<br>9700<br>8800<br>5200<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>14 | 312,0<br>52,0<br>21,7<br>56,4<br>45,6<br>42,6<br>36,9<br>31,8<br>29,1<br>26,4<br>15,6<br>2,1 |
| | | | Ø8AI(A240) | $I_{cp}$=1545 | 40 | 61,9 |
| |  | | Ø5BI | - | - | 590,0 |
| СК22.1-1.1 |  | 1<br>2<br>3<br>4<br>5 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AVA(800)<br>Ø12AV(A800) | 22600<br>22580<br>10200<br>150<br>500 | 10<br>2<br>2<br>20<br>2 | 226,0<br>45,2<br>20,4<br>3,0<br>1,0 |
| | | | Ø8AI(A240) | $I_{cp}$=1595 | 39 | 62,2 |
| СК22.1-1.1 |  | | Ø4BI | - | - | 527,0 |
| СК22.1-1.2 |  | 1<br>2<br>3<br>4<br>5 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>5800<br>150<br>500 | 8<br>2<br>1<br>20<br>2 | 180,8<br>45,2<br>5,8<br>3,0<br>1,0 |
| | | | Ø8AI(A240) | $I_{cp}$=1592 | 39 | 62,1 |
| |  | | Ø4BI | - | - | 527,0 |

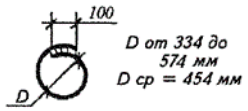
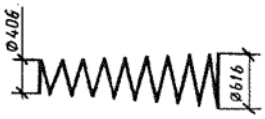
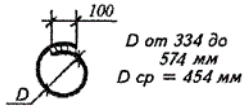
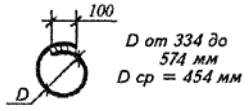
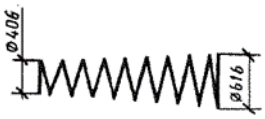
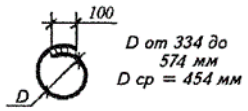
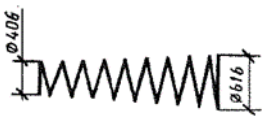
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| СК22.1-2.1 | | 1<br>2<br>3<br>4<br>5<br>6 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>15800<br>9800<br>5100<br>15 | 10<br>2<br>1<br>3<br>3<br>16 | 226.0<br>45.2<br>15.8<br>29.4<br>15.3<br>2..4 |
| |  | | Ø8AI(A240) | $I_{ср}$=1595 | 37 | 59.0 |
| |  | | Ø4BI | - | - | 527.0 |
| СК22.1-2.2 | | 1<br>2<br>3<br>4<br>5<br>6 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>9300<br>5000<br>150<br>500 | 10<br>2<br>1<br>3<br>16<br>2 | 226,0<br>45,2<br>9,3<br>15,0<br>2,4<br>1,0 |
| СК22.1-2.2 |  | | Ø8AI(A240) | $I_{ср}$=1592 | 37 | 58,9 |
| |  | | Ø4BI | - | - | 5227,2 |
| СК22.1-3.1 | | 1<br>2<br>3 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 22600<br>22580<br>150 | 8<br>2<br>20 | 180,8<br>45,2<br>3,0 |
| |  | | Ø8AI(A240) | $I_{ср}$=1595 | 39 | 62,2 |
| |  | | Ø4BI | - | - | 520,5 |
| СК22.1-3.2 | | 1<br>2<br>3<br>4 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>7400<br>150 | 6<br>2<br>1<br>20 | 135,6<br>45,,2<br>7,4<br>3,0 |
| |  | | Ø8AI(A240) | $I_{ср}$=1592 | 39 | 62,1 |
| |  | | Ø4BI | - | - | 527,0 |
| СК26.1-6.1 | | 1<br>2<br>3<br>4<br>5 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 26000<br>25980<br>9400<br>5100<br>150 | 20<br>2<br>1<br>3<br>24 | 520,0<br>51,9<br>9,4<br>15,3<br>3,6 |
| СК26.1-6.1 |  | | Ø8AI(A240) | $I_{ср}$=1545 | 45 | 70,0 |
| |  | | Ø4BI | - | - | 5505,0 |
| СК26.1-6.2 | | 1 | Ø12AVI(A1000) | 26000 | 18 | 468,0 |

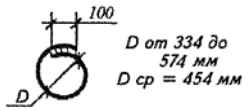
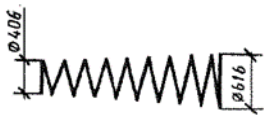
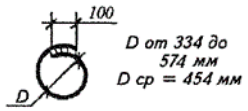
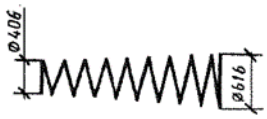
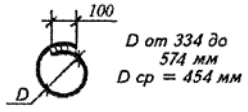
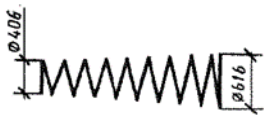
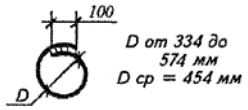
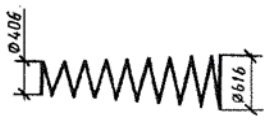
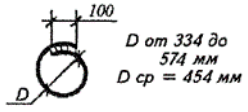
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 2<br>3 | Ø12AVI(A1000)<br>Ø12AVI(A1000) | 25980<br>150 | 4<br>22 | 103,8<br>3,3 |
| |  | | Ø8AI(A240) | $I_{cp}$=1545 | 45 | 70,0 |
| |  | | Ø4BI | - | - | 452,0 |
| СК26.2-1.1 | | 1<br>2<br>3 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 26000<br>25980<br>17900 | 20<br>4<br>2 | 520,0<br>104,0<br>35,8 |
| |  | | Ø8AI(A240) | $I_{cp}$=1544 | 41 | 63,3 |
| |  | | Ø4BI | - | - | 590,0 |
| СК26.2-1.2 | | 1<br>2<br>3<br>4 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 26000<br>25980<br>20600<br>150 | 18<br>2<br>1<br>14 | 468,0<br>52,0<br>20,6<br>2,1 |
| |  | | Ø8AI(A240) | $I_{cp}$=1544 | 41 | 63,2 |
| СК26.2-1.2 |  | | Ø4BI | - | - | 590,0 |
| СК22.2-1.1 | | 1<br>2<br>3<br>4<br>5 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 22600<br>22580<br>8800<br>5200<br>150 | 22<br>4<br>3<br>3<br>18 | 497,2<br>90,4<br>26,4<br>15,6<br>2,7 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 28 | 61,0 |
| |  | | Ø4BI | - | - | 540,0 |
| СК22.2-1.2 | | 1<br>2<br>3<br>4<br>5 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>9600<br>6400<br>150 | 18<br>4<br>2<br>3<br>18 | 406,3<br>90,4<br>19,2<br>19,2<br>2,7 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 38 | 61,0 |
| |  | | Ø4BI | - | - | 540,0 |
| СК22.3-1.1 | | 1<br>2 | Ø12AV(A800)<br>Ø12AV(A800) | 22600<br>22580 | 14<br>2 | 316,4<br>45,2 |

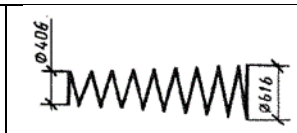
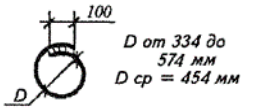
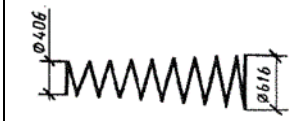
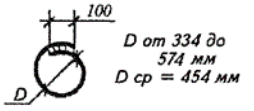
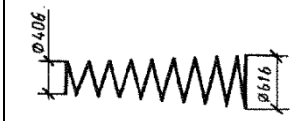
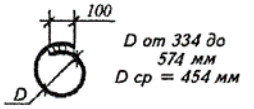
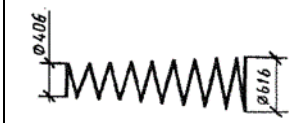
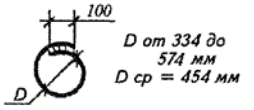
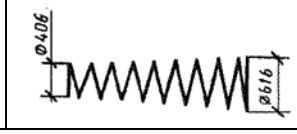
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| | | | | | | |
|---|---|---|---|---|---|---|
| | | 3<br>4<br>5 | Ø12AV(A800)<br>Ø12AV(A800)<br>Ø12AV(A800) | 11000<br>500<br>150 | 10<br>2<br>12 | 110,0<br>1,0<br>1,8 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 34 | 54,6 |
| CK22.3-1.1 |  | | Ø4BI | - | - | 580,0 |
| CK22.3-1.2 | | 1<br>2<br>3<br>4<br>5 | Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000)<br>Ø12AVI(A1000) | 22600<br>22580<br>11000<br>500<br>150 | 14<br>2<br>8<br>2<br>12 | 316,4<br>45,2<br>88,0<br>1,0<br>1,8 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 34 | 54,6 |
| |  | | Ø4BI | - | - | 580,0 |
| CK26.1-1.0 | | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980<br>19100<br>17100<br>15100<br>13200<br>11200<br>8800<br>6200<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>3<br>3<br>20 | 312,0<br>52,0<br>19,1<br>51,3<br>45,3<br>39,6<br>33,6<br>26,4<br>18,6<br>3,0 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 42 | 65,1 |
| |  | | Ø4BI | - | - | 590,0 |
| CK26.1-2.0 | | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980<br>19100<br>17100<br>15100<br>13200<br>11200<br>8800<br>6200<br>150 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>3<br>3<br>20 | 312.0<br>52.0<br>19.1<br>51.3<br>45.3<br>39.6<br>33.6<br>26.4<br>18.6<br>1.8 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 38 | 58.9 |
| |  | | Ø5BI | - | - | 590.0 |
| CK26.1-3.0 | | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980<br>21000<br>19700<br>18300<br>06800<br>14600<br>12800 | 12<br>2<br>1<br>3<br>3<br>3<br>3<br>3 | 312.0<br>52.0<br>21.0<br>59.1<br>54.9<br>50.4<br>43.8<br>38.4 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | | 9<br>10<br>11<br>12<br>13 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 10800<br>9700<br>8100<br>5100<br>150 | 3<br>3<br>3<br>3<br>16 | 32.4<br>29.1<br>24.3<br>15.3<br>2.4 |
| |  | | Ø8AI(A240) | $I_{cp}$=1550 | 42 | 64.9 |
| |  | | Ø5BI | - | - | 590.0 |
| CK26.1-4.0 | | 1<br>2<br>3<br>4 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980<br>8800<br>6700 | 20<br>2<br>3<br>3 | 520.0<br>52.0<br>26.4<br>20.1 |
| |  | | Ø8AI(A240) | $I_{cp}$=1545 | 38 | 59.0 |
| |  | | Ø4BI | - | - | 486.0 |
| CK22.1-1.0 | | 1<br>2<br>3<br>4<br>5 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 22600<br>22580<br>11800<br>7300<br>150 | 10<br>2<br>3<br>3<br>20 | 226.0<br>45.2<br>35.4<br>21.9<br>3.0 |
| |  | | Ø8AI(A240) | $I_{cp}$=1692 | 39 | 62.1 |
| |  | | Ø4BI | - | - | 520.5 |
| CK22.1-2.0 | | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 22600<br>22580<br>13500<br>10200<br>7700<br>3600<br>150 | 10<br>3<br>3<br>3<br>3<br>3<br>16 | 226.0<br>67.7<br>40.5<br>30.6<br>23.1<br>10.8<br>2.4 |
| |  | | Ø8AI(A240) | $I_{cp}$=1592 | 37 | 59.0 |
| |  | | Ø4BI | - | - | 527.2 |
| CK22.1-3.0 | | 1<br>2<br>3 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 22600<br>22580<br>150 | 10<br>3<br>20 | 226.0<br>62.1<br>3.0 |
| |  | | Ø8AI(A240) | $I_{cp}$=1592 | 39 | 62.1 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| |  | | Ø4BI | - | - | 527.2 |
| CK26.1-6.0 | | 1<br>2<br>3<br>4<br>5<br>6<br>7 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980<br>14500<br>12200<br>9500<br>6200<br>150 | 20<br>2<br>1<br>3<br>3<br>3<br>22 | 520.0<br>52.0<br>14.5<br>36.6<br>28.5<br>18.6<br>3.3 |
| |  | | Ø8AI(A240) | $I_{cp}$=1545 | 45 | 70.0 |
| |  | | Ø4BI | - | - | 590.0 |
| CK26.2-1.0 | | 1<br>2 | Ø12AIV(A600)<br>Ø12AIV(A600) | 26000<br>25980 | 20<br>12 | |
| |  | | Ø8AI(A240) | $I_{cp}$=1544 | 41 | 63.3 |
| |  | | Ø4BI | - | - | 590.0 |
| CK22.2-1.0 | | 1<br>2<br>3<br>4<br>5 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 22600<br>22580<br>14700<br>11700<br>150 | 22<br>2<br>3<br>3<br>18 | 497.2<br>45.2<br>44.1<br>35.1<br>2.1 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 38 | 61.0 |
| |  | | Ø4BI | - | - | 640.0 |
| CK22.3-1.0 | | 1<br>2<br>3<br>4<br>5<br>6 | Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600)<br>Ø12AIV(A600) | 22600<br>22580<br>12000<br>11000<br>500<br>150 | 14<br>4<br>3<br>6<br>2<br>12 | 316.4<br>90.3<br>36.0<br>66.0<br>1.0<br>.18 |
| |  | | Ø8AI(A240) | $I_{cp}$=1604 | 34 | 54.0 |
| |  | | Ø4BI | - | - | 580.0 |

*Izoh: Montaj xalqalarini ishlab chiqarishda kontakt payvandlashdan foydalanish mumkin shu bilan birga birlashtiriladigan uchlarning o’rami 10 mm dan kam bo’lmasligi kerak.*




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A.4-jadval. Konussimon ustunlarning uzunligi bo‘ylab spiral qadamning qiymati mm

<table>
<tr><th rowspan="2">Ustun markasi</th><th rowspan="2">Spiral diametri</th><th colspan="5">Maydon uzunligidagi (mahraj) spiral qadami (surat)</th></tr>
<tr><th>$l_1$</th><th>$l_2$</th><th>$l_3$</th><th>$l_4$</th><th>$l_5$</th></tr>
<tr><td>CK26.1-1.0</td><td rowspan="4">4B1</td><td rowspan="16">50/3500</td><td rowspan="2">80/22000</td><td rowspan="30">0</td><td rowspan="30">0</td><td rowspan="16">50/500</td></tr>
<tr><td>CK26.1-1.1</td></tr>
<tr><td>CK26.1-1.2</td><td>120/22000</td></tr>
<tr><td>CK26.1-1.5</td><td>200/22000</td></tr>
<tr><td>CK26.1-1.4</td><td>5B1</td><td>120/22000</td></tr>
<tr><td>CK26.1-1.3</td><td rowspan="2">4B1</td><td>200/22000</td></tr>
<tr><td>CK26.1-2.0</td><td rowspan="2">80/22000</td></tr>
<tr><td>CK26.1-2.1</td><td rowspan="3">5B1</td></tr>
<tr><td>CK26.1-2.2</td></tr>
<tr><td>CK26.1-2.5</td><td>200/22000</td></tr>
<tr><td>CK26.1-2.4</td><td>120/22000</td></tr>
<tr><td>CK26.1-2.3</td><td>4B1</td><td>200/22000</td></tr>
<tr><td>CK26.1-3.0</td><td rowspan="3">5B1</td><td rowspan="2">80/22000</td></tr>
<tr><td>CK26.1-3.1</td></tr>
<tr><td>CK26.1-3.4</td><td>120/22000</td></tr>
<tr><td>CK26.1-3.3</td><td>200/22000</td></tr>
<tr><td>CK26.1-4.0</td><td rowspan="2">4B1</td><td rowspan="2">50/500</td><td rowspan="2">100/22000</td><td rowspan="2">50/3500</td></tr>
<tr><td>CK26.1-4.1</td></tr>
<tr><td>CK26.1-5.1</td><td>5B1</td><td>50/3500</td><td>80/22000</td><td>50/500</td></tr>
<tr><td>CK22.1-1.0</td><td rowspan="12">4B1</td><td rowspan="9">50/3200</td><td rowspan="9">80/18900</td><td rowspan="12">50/500</td></tr>
<tr><td>CK22.1-1.1</td></tr>
<tr><td>CK22.1-1.2</td></tr>
<tr><td>CK22.1-2.0</td></tr>
<tr><td>CK22.1-2.1</td></tr>
<tr><td>CK22.1-2.2</td></tr>
<tr><td>CK22.1-3.0</td></tr>
<tr><td>CK22.1-3.1</td></tr>
<tr><td>CK22.1-3.2</td></tr>
<tr><td>CK26.1-6.0</td><td rowspan="3">50/3500</td><td>80/22000</td></tr>
<tr><td>CK26.1-6.1</td><td>100/22000</td></tr>
<tr><td>CK26.1-6.2</td><td>120/22000</td></tr>
<tr><td>CK26.2-1.0</td><td rowspan="6">4B1</td><td rowspan="3">50/3500</td><td rowspan="2">80/22000</td><td rowspan="3">50/500</td></tr>
<tr><td>CK26.2-1.1</td></tr>
<tr><td>CK26.2-1.2</td><td rowspan="3">80/18600</td></tr>
<tr><td>CK22.2-1.0</td></tr>
<tr><td>CK22.2-1.1</td><td rowspan="2">50/500</td><td rowspan="2">80/11400</td><td rowspan="2">50/10700</td></tr>
<tr><td>CK22.2-1.2</td></tr>
<tr><td>CK22.3-1.0</td><td rowspan="3">50/500</td><td rowspan="3">80/11400</td><td rowspan="3">50/10700</td></tr>
<tr><td>CK22.3-1.1</td></tr>
<tr><td>CK22.3-1.2</td></tr>
</table>

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A.5-jadval. O’rnatma mahsulotlarning joylashuvi

| Ustunlar belgilanishi | Masofalar, mm (belgilashlar A.1-rasmga muvofiq) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | $l_0$ | $l_1$ | $l_2$ | $l_3$ | $l_4$ | $l_5$ | $l_6$ | $l_7$ | |
| CK26.1-1 | 200 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1 |
| CK26.1-2 | 200 | 1000 | 2000 | 2000 | 1500 | 1500 | - | - | |
| CK26.1-3 | 200 | 1000 | 2000 | 500 | 500 | 1000 | 1000 | 1000 | |
| CK26.1-4 | 200 | 1000 | 3000 | 1000 | 3000 | - | - | - | |
| CK26.1-5 | 200 | 1500 | 1000 | 1000 | 1000 | 2000 | 1500 | - | |
| CK22.1-1 | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1 |
| CK22.1-2 | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| CK22.1-3 | 100 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1 |
| CK26.1-6 | 200 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 500x2 | 10 |
| CK26.2-1 | 200 | 1000 | 1000 | 1500 | 1000 | 14800 | 1500 | - | |
| CK22.2-1 | 300 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 2000 | 1 |
| CK22.3-1 | 200 | 2500 | 2000 | 2000 | 2000 | 2000 | - | - | |

*Izoh: Turlicha armaturalangan bir xil ustunlar uchun o’rnatma mahsulotlarning joylashuvi bir xil bo’lganligi sababli, ustunlarning marka*

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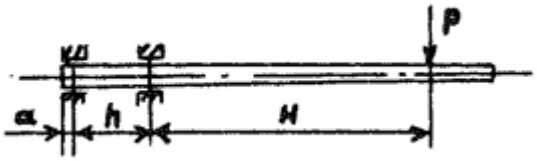
**A.1 Mustahkamlikka, qattiqlikka va zarbaga bardoshlilikka sinashda ustunlarning tayanish va yuklash sxemalari**

A.1.1 Mustahkamlikka, qattiqlikka va zarbaga bardoshlilikka sinashda ustunlarning tayanish va yuklash sxemalari A.1.1-rasmda ko’rsatilgan.

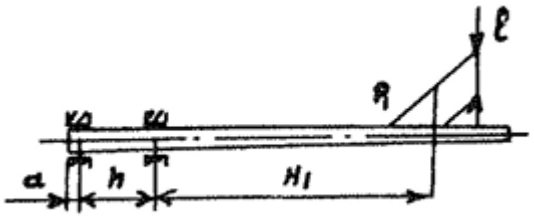
A.1.2 Ustunlarni sinashda, ustunlarning tayanish va yuklash sxemalarining asosiy ko’rsatkichlari A.1.1- jadvalda ko’rsatilgan.

Ustunlarning tayanish va yuklash sxemasi

a) Me’yoriy rejim sxemasi




b) Favqulotda holat rejim sxemasi




A.1.1-rasm

3. P nazorat yuklamalarining qiymatlari B ilovada keltirilgan.

4. P1 yuklamalarini ushbu ilovaning jadvalida ko’rsatilgan hisobiy qiymatining 25% ni tashkil qiluvchi bosqichlar bilan qo’yiladi.

A.1.1 – jadval. Ustunlarni sinashda, ustunlarning tayanish va yuklash sxemalarining asosiy ko’rsatkichlari

| Ustunlarning belgilanishi | O’lchamlar, m | | | | | $P_1$, kN(tf) |
|---|---|---|---|---|---|---|
| | H | h | a | $H_1$ | l | |
| CK26.1-1 | 19.5 | 2.4 | 0.2 | 18.5 | 4.0 | 8.43(0.85) |
| CK26.1-2 | | | | 16.0 | 4.8 | 12.75(1.30) |
| CK26.1-3 | | | | 17.5 | | |
| CK26.1-4 | | | | - | - | - |
| CK26.1-5 | | | | 14.5 | 4.8 | 10.10(1.02) |
| CK22.1-1 | 15 | 2.2 | | | | 8.43(0.85) |
| CK22.1-2 | | | | | | |
| CK22.1-3 | | | | | | |
| CK26.1-6 | 19.5 | 2.4 | | | | 12.75(1.30) |
| CK26.2-1 | | | | 22.7 | 2.5 | 15.7(1.60) |
| CK22.2-1 | 15 | 2.2 | | 10.0 | 1.75 | 31.1(3.17) |
| CK22.3-1 | | | | - | - | - |

**A.2 Ustunlarni sinashda nazorat qilinuvchi ko‘rsatkichlar qiymatlari**

A.2.1 Ustunlarning mustahkamlikka, qattiqlikka va zarbaga bardoshlilikka sinashdagi P nazorat yuklama qiymatlari A.2.1- jadvalda ko‘rsatilgan.

A.2.2 Ustunlarni yuklashni bosqichlab o’sib boruvchi yuklamalar vositasida bajariladi. Har bir bosqichda kamida 10 min, nazorat yuklamalarda esa, kamida 30 min saqlab turiladi.

Ustun egilishining nazorat qiymatlari kuchning egilish nuqtasi uchun berilgan. Sinov vaqtida o‘lchangan egilish yoki o’qning egilishi bilan aniqlanuvchi qiymatga qadar kamaytirilishi lozim.

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Yoriqlarni tayanch yonidagi maydonda o’lchanadi, yoriqlarning ochilish kengligi esa, 1 m uzunlikdagi o’rtacha qiymat sifatida aniqlanadi.

A.2.1- jadval

| Ustun markasi | Betonning mustahkamligi (Rdan%) | Ko’rsatkichlar | Yuklash bosqichlari, % | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 83,3 | 100 | 110 | 120 | 130 | 140 |
| CK26.1-1.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,04 (1,84)<br>70,92<br>0,158 | 21,67 (2,21)<br>108,6<br>- | 23,83 (2,43)<br>-<br>- | 25,99 (2,43)<br>-<br>- | 28,14 (2,87)<br>-<br>- | 30,30 (3,09)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,73 (1,91)<br>72,76<br>- | 22,46 (2,29)<br>110,83<br>- | 24,71 (2,52)<br>-<br>- | 26,97 (2,75)<br>-<br>- | 29,22 (2,98)<br>-<br>- | 31,48 (3,21)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19,70 (2,01)<br>77,08<br>0,164 | 23,73 (2,42)<br>117,17<br>- | 26,08 (2,66)<br>-<br>- | 28,44 (2,90)<br>-<br>- | 30,89 (3,15)<br>-<br>- | 33,24 (339)<br>-<br>- |
| CK26.1-1.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17,36 (1,77)<br>54,37<br>0,134 | 20,89 (2,13)<br>88,6<br>- | 22,95 (2,34)<br>-<br>- | 25,11 (2,56)<br>-<br>- | 27,16 (2,77)<br>-<br>- | 29,22 (2,98)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,44 (1,88)<br>59,40<br>0,149 | 22,16 (2,26)<br>94,07<br>- | 24,42 (2,49)<br>-<br>- | 26,58 (2,71)<br>-<br>- | 28,83 (2,94)<br>-<br>- | 30,99 (3,16)<br>-<br>- |
| CK26.1-1.2 | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19,84 (2,03)<br>65,60<br>0,171 | 23,88 (2,43)<br>107,35<br>- | 26,27 (2,68)<br>-<br>- | 28,65 (2,92)<br>-<br>- | 31,04 (3,17)<br>-<br>- | 33,43 (3,41)<br>-<br>- |
| CK26.1-1.5 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14,61 (1,49)<br>25,25<br>0,050 | 17,55 (1,79)<br>39,61<br>- | 19,32 (1,97)<br>-<br>- | 21,08 (2,15)<br>-<br>- | 22,85 (2,33)<br>-<br>- | 24,61 (2,51)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15,89 (1,62)<br>27,88<br>0,058 | 19,02 (1,94)<br>47,18<br>- | 20,89 (2,13)<br>-<br>- | 22,85 (2,33)<br>-<br>- | 24,71 (2,52)<br>-<br>- | 26,67 (2,72)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17,49 (1,78)<br>35,81<br>0,072 | 21,00 (2,14)<br>58,39<br>- | 23,10 (2,36)<br>-<br>- | 25,20 (2,57)<br>-<br>- | 27,30 (2,78)<br>-<br>- | 29,40 (3,00)<br>-<br>- |
| CK26.1-1.4 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16,77 (1,71)<br>56,78<br>0,168 | 20,10 (2,05)<br>84,11<br>- | 22,06 (2,25)<br>-<br>- | 24,12 (2,46)<br>-<br>- | 26,09 (2,66)<br>-<br>- | 28,15 (2,87)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17,85 (1,82)<br>60,90<br>0,181 | 21,38 (2,18)<br>90,32<br>- | 23,54 (2,40)<br>-<br>- | 25,69 (2,62)<br>-<br>- | 27,75 (2,83)<br>-<br>- | 29,91 (3,05)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,06 (1,84)<br>59,67<br>0,168 | 21,68 (2,21)<br>87,64<br>- | 23,85 (2,43)<br>-<br>- | 26,02 (2,65)<br>-<br>- | 28,18 (2,87)<br>-<br>- | 30,35 (3,10)<br>-<br>- |
| CK26.1-1.3 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16,28 (1,66)<br>49,04<br>0,128 | 19,51 (1,99)<br>77,33<br>- | 21,48 (2,19)<br>-<br>- | 23,44 (2,39)<br>-<br>- | 25,40 (2,59)<br>-<br>- | 27,36 (2,79)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17,36<br>(1,77)<br>53,86<br>0,143 | 20,79<br>(2,12)<br>84,39<br>- | 22,85<br>(2,33)<br>-<br>- | 24,91<br>(2,54)<br>-<br>- | 27,07<br>(2,76)<br>-<br>- | 29,13<br>(2,97)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19,59<br>(2,0)<br>69,23<br>0,186 | 23,52<br>(2,40)<br>108,61<br>- | 25,87<br>(2,64)<br>-<br>- | 28,23<br>(2,64)<br>-<br>- | 30,58<br>(3,12)<br>-<br>- | 32,93<br>(3,36)<br>-<br>- |
| CK26. 1-2.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,04<br>(1,84)<br>70,92<br>0,158 | 21,67<br>(2,21)<br>108,62<br>- | 23,83<br>(2,43)<br>-<br>- | 25,99<br>(2,65)<br>-<br>- | 28,14<br>(2,87)<br>-<br>- | 30,30<br>(3,09)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,73<br>(1,91)<br>72,76<br>0,163 | 22,46<br>(2,29)<br>110,83<br>- | 24,71<br>(2,52)<br>-<br>- | 26,97<br>(2,75)<br>-<br>- | 29,22<br>(2,98)<br>-<br>- | 31,48<br>(3,21)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19,74<br>(2,01)<br>77,08<br>0,164 | 23,70<br>(2,42)<br>117,17<br>- | 26,87<br>(2,66)<br>-<br>- | 28,44<br>(2,90)<br>-<br>- | 30,81<br>(3,14)<br>-<br>- | 33,18<br>(3,38)<br>-<br>- |
| CK26. 1-2.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17,36<br>(1,77)<br>54,37<br>0,134 | 20,89<br>(2,13)<br>86,64<br>- | 22,95<br>(2,34)<br>-<br>- | 25,10<br>(2,56)<br>-<br>- | 27,16<br>(2,77)<br>-<br>- | 29,22<br>(2,98)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18,44<br>(1,88)<br>59,40<br>0,149 | 22,16<br>(2,26)<br>94,07<br>- | 24,42<br>(2,49)<br>-<br>- | 26,58<br>(2,71)<br>-<br>- | 28,83<br>(2,94)<br>-<br>- | 30,99<br>(3,16)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19,89<br>(2,03)<br>67,60<br>0,171 | 23,88<br>(2,43)<br>107,35<br>- | 26,27<br>(2,68)<br>-<br>- | 28,65<br>(2,92)<br>-<br>- | 31,04<br>(3,17)<br>-<br>- | 33,43<br>(3,41)<br>-<br>- |
| CK26. 1-2.5 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14.61<br>(1.49)<br>25.25<br>0.050 | 17.55<br>(1.79)<br>39.61<br>- | 19.32<br>(1.97)<br>-<br>- | 21.08<br>(2.15)<br>-<br>- | 22.85<br>(2.33)<br>-<br>- | 24.61<br>(2.51)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15.89<br>(1.62)<br>27.88<br>0.058 | 19.02<br>(1.94)<br>47.18<br>- | 20.89<br>(2.13)<br>-<br>- | 22.85<br>(2.33)<br>-<br>- | 24.71<br>(2.52)<br>-<br>- | 26.67<br>(2.72)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.49<br>(1.78)<br>35.81<br>0.072 | 21.00<br>(2.14)<br>58.39<br>- | 23.10<br>(2.36)<br>-<br>- | 25.20<br>(2.57)<br>-<br>- | 27.30<br>(2.78)<br>-<br>- | 29.40<br>(3.0)<br>-<br>- |
| CK26. 1-2.4 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.77<br>(1.71)<br>56.78<br>0.168 | 20.10<br>(2.05)<br>84.11<br>- | 22.06<br>(2.25)<br>-<br>- | 24.12<br>(2.46)<br>-<br>- | 26.09<br>(2.66)<br>-<br>- | 28.14<br>(2.87)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.85<br>(1.82)<br>60.90<br>0.181 | 21.38<br>(2.18)<br>90.32<br>- | 23.54<br>(2.40)<br>-<br>- | 25.69<br>(2.62)<br>-<br>- | 27.75<br>(2.83)<br>-<br>- | 29.91<br>(3.05)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.06<br>(1.84)<br>59.67<br>0.168 | 21.68<br>(2.21)<br>87.64<br>- | 23.85<br>(2.43)<br>-<br>- | 26.02<br>(2.65)<br>-<br>- | 28.18<br>(2.87)<br>-<br>- | 30.35<br>(3.10)<br>-<br>- |
| CK26. 1-2.3 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.28<br>(1.66)<br>49.04<br>0.128 | 19.51<br>(1.99)<br>77.33<br>- | 21.48<br>(2.19)<br>-<br>- | 23.44<br>(2.39)<br>-<br>- | 25.40<br>(2.59)<br>-<br>- | 27.36<br>(2.79)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.36 (1.77)<br>53.86<br>0.143 | 20.79 (2.12)<br>84.39<br>- | 22.85 (2.33)<br>-<br>- | 24.91 (2.54)<br>-<br>- | 27.07 (2.76)<br>-<br>- | 29.13 (2.97)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.59 (2.0)<br>69.23<br>0.186 | 23.52 (2.40)<br>108.61<br>- | 25.87 (2.64)<br>-<br>- | 28.23 (2.88)<br>-<br>- | 30.58 (3.12)<br>-<br>- | 32.93 (3.36)<br>-<br>- |
| CK26. 1-3.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 20.79 (2.12)<br>75.42<br>0.128 | 24.94 (2.54)<br>108.39<br>- | 27.36 (2.79)<br>-<br>- | 29.91 (3.05)<br>-<br>- | 32.36 (3.30)<br>-<br>- | 34.91 (3.56)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 21.48 (2.19)<br>75.76<br>0.132 | 25.79 (2.63)<br>110.35<br>- | 28.34 (2.89)<br>-<br>- | 30.99 (3.16)<br>-<br>- | 33.64 (3.42)<br>-<br>- | 36.09 (3.68)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 22.71 (2.32)<br>90.71<br>0.137 | 27.26 (2.78)<br>117.91<br>- | 29.98 (3.06)<br>-<br>- | 32.71 (3.34)<br>-<br>- | 35.43 (3.61)<br>-<br>- | 38.16 (3.89)<br>-<br>- |
| CK26. 1-3.4 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.22 (1.96)<br>63.62<br>0.148 | 26.05 (2.35)<br>88.10<br>- | 25.30 (2.58)<br>-<br>- | 27.65 (2.82)<br>-<br>- | 30.01 (3.06)<br>-<br>- | 32.26 (3.29)<br>-<br>- |
| | 88 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 20.40 (2.08)<br>67.06<br>0.148 | 24.52 (2.35)<br>88.10<br>- | 26.97 (2.75)<br>-<br>- | 29.42 (3.00)<br>-<br>- | 31.87 (3.25)<br>-<br>- | 34.32 (3.50)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 22.07 (2.25)<br>73.20<br>0.159 | 26.50 (2.70)<br>101.65<br>- | 29.15 (2.97)<br>-<br>- | 31.80 (3.24)<br>-<br>- | 34.45 (3.51)<br>-<br>- | 37.10 (3.78)<br>-<br>- |
| CK26. 1-3.3 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.32 (1.97)<br>58.37<br>0.111 | 23.24 (2.37)<br>81.85<br>- | 25.59 (2.61)<br>-<br>- | 27.85 (2.84)<br>-<br>- | 30.20 (3.08)<br>-<br>- | 32.56 (3.32)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 20.59 (2.10)<br>61.73<br>0.118 | 24.71 (2.52)<br>86.45<br>- | 27.16 (2.77)<br>-<br>- | 29.62 (3.02)<br>-<br>- | 32.17 (3.28)<br>-<br>- | 34.62 (3.53)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 22.36 (2.28)<br>67.87<br>0.102 | 26.84 (2.74)<br>96.08<br>- | 29.52 (3.01)<br>-<br>- | 32.21 (3.28)<br>-<br>- | 34.89 (3.56)<br>-<br>- | 37.58 (3.83)<br>-<br>- |
| CK26. 1-4.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.08 (1.64)<br>43.75<br>0.102 | 19.32 (1.97)<br>76.03<br>- | 21.28 (2.17)<br>-<br>- | 23.14 (2.36)<br>-<br>- | 25.10 (2.56)<br>-<br>- | 27.07 (2.76)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.87 (1.72)<br>47.53<br>0.114 | 20.30 (2.07)<br>88.25<br>- | 22.36 (2.28)<br>-<br>- | 24.32 (2.48)<br>-<br>- | 26.38 (2.69)<br>-<br>- | 28.44 (2.90)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.07 (1.84)<br>53.73<br>0.132 | 21.70 (2.21)<br>93.85<br>- | 23.86 (2.43)<br>-<br>- | 26.03 (2.65)<br>-<br>- | 28.20 (2.88)<br>-<br>- | 30.37 (3.10)<br>-<br>- |
| CK26. 1-5.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 22.55 (2.30)<br>77.60<br>0.112 | 27.07 (2.76)<br>107.32<br>- | 29.81 (3.04)<br>-<br>- | 32.46 (3.31)<br>-<br>- | 35.21 (3.59)<br>-<br>- | 37.85 (3.86)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 23.34 (2.38)<br>78.66<br>0.114 | 28.05 (2.86)<br>108.73<br>- | 30.89 (3.15)<br>-<br>- | 33.64 (3.43)<br>-<br>- | 36.48 (3.72)<br>-<br>- | 39.23 (4.00)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 24.68 (2.52)<br>82.47<br>0.119 | 29.63 (3.02)<br>116.57<br>- | 32.59 (3.32)<br>-<br>- | 35.56 (3.63)<br>-<br>- | 38.52 (3.93)<br>-<br>- | 41.48 (4.23)<br>-<br>- |
| CK22. 1-1.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 12.94 (1.32)<br>26.61<br>0.140 | 15.59 (1.59)<br>47.08<br>- | 17.16 (1.75)<br>-<br>- | 18.73 (1.91)<br>-<br>- | 20.30 (2.07)<br>-<br>- | 21.87 (2.23)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 13.83 (1.41)<br>28.79<br>0.158 | 16.57 (1.69)<br>50.42<br>- | 18.24 (1.86)<br>-<br>- | 19.91 (2.03)<br>-<br>- | 21.57 (2.20)<br>-<br>- | 23.24 (2.37)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14.70 (1.50)<br>31.42<br>0.166 | 17.65 (1.80)<br>54.19<br>- | 19.42 (1.98)<br>-<br>- | 21.18 (2.16)<br>-<br>- | 22.95 (2.34)<br>-<br>- | 24.71 (2.52)<br>-<br>- |
| CK22. 1-1.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 13.73 (1.40)<br>30.14<br>0.220 | 16.47 (1.68)<br>56.60<br>- | 18.14 (1.85)<br>-<br>- | 19.81 (2.02)<br>-<br>- | 21.38 (2.18)<br>-<br>- | 23.05 (2.35)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14.32 (1.46)<br>32.91<br>0.246 | 17.16 (1.75)<br>61.78<br>- | 18.83 (1.92)<br>-<br>- | 20.59 (2.10)<br>-<br>- | 22.26 (2.27)<br>-<br>- | 24.03 (2.45)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15.00 (1.53)<br>35.85<br>0.268 | 18.04 (1.84)<br>67.16<br>- | 19.81 (2.02)<br>-<br>- | 21.67 (2.21)<br>-<br>- | 23.44 (2.39)<br>-<br>- | 25.30 (2.58)<br>-<br>- |
| CK22. 1-2.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15.98 (1.63)<br>35.02<br>0.140 | 19.22 (1.96)<br>55.99<br>- | 21.18 (2.16)<br>-<br>- | 23.05 (2.35)<br>-<br>- | 25.01 (2.55)<br>-<br>- | 26.87 (2.74)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.96 (1.73)<br>37.04<br>0.152 | 20.40 (2.08)<br>59.10<br>- | 22.46 (2.29)<br>-<br>- | 24.52 (2.50)<br>-<br>- | 26.48 (2.70)<br>-<br>- | 28.54 (2.91)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.95 (1.22)<br>32.88<br>0.255 | 14.35 (1.46)<br>62.11<br>- | 15.79 (1.61)<br>-<br>- | 17.22 (1.76)<br>-<br>- | 18.66 (1.90)<br>-<br>- | 20.09 (2.05)<br>-<br>- |
| CK22. 1-2.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.57 (1.69)<br>26.52<br>0.122 | 19.91 (2.03)<br>45.72<br>- | 21.87 (2.23)<br>-<br>- | 23.93 (2.44)<br>-<br>- | 25.98 (2.64)<br>-<br>- | 27.85 (2.84)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.65 (1.80)<br>29.42<br>0.141 | 21.18 (2.16)<br>50.31<br>- | 23.34 (2.38)<br>-<br>- | 25.40 (2.59)<br>-<br>- | 27.56 (2.81)<br>-<br>- | 29.62 (3.02)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.30 (1.87)<br>31.10<br>0.144 | 21.97 (2.24)<br>51.50<br>- | 24.16 (2.46)<br>-<br>- | 24.36 (2.69)<br>-<br>- | 28.56 (2.91)<br>-<br>- | 30.75 (3.14)<br>-<br>- |
| CK22. 1-3.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 10.79 (1.10)<br>28.65<br>0.225 | 12.94 (1.32)<br>54.44<br>- | 14.22 (1.45)<br>-<br>- | 15.49 (1.58)<br>-<br>- | 16.87 (1.72)<br>-<br>- | 18.14 (1.85)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.28<br>(1.15)<br>30.77<br>0.247 | 13.53<br>(1.38)<br>58.76<br>- | 14.91<br>(1.52)<br>-<br>- | 16.28<br>(1.66)<br>-<br>- | 17.55<br>(1.79)<br>-<br>- | 18.93<br>(1.93)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.95<br>(1.22)<br>32.88<br>0.255 | 14.35<br>(1.46)<br>62.11<br>- | 15.79<br>(1.61)<br>-<br>- | 17.22<br>(1.76)<br>-<br>- | 18.66<br>(1.90)<br>-<br>- | 20.09<br>(2.05)<br>-<br>- |
| CK22.1-3.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 10.49<br>(1.07)<br>29.54<br>0.246 | 12.65<br>(1.29)<br>53.88<br>- | 13.92<br>(1.42)<br>-<br>- | 15.20<br>(1.55)<br>-<br>- | 16.47<br>(1.68)<br>-<br>- | 17.75<br>(1.81)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.18<br>(1.14)<br>32.73<br>0.281 | 13.43<br>(1.37)<br>59.66<br>- | 14.81<br>(1.51)<br>-<br>- | 16.08<br>(1.64)<br>-<br>- | 17.46<br>(1.78)<br>-<br>- | 18.83<br>(1.92)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.77<br>(1.20)<br>35.37<br>0.299 | 14.12<br>(1.44)<br>65.18<br>- | 15.49<br>(1.58)<br>-<br>- | 16.08<br>(1.64)<br>-<br>- | 17.46<br>(1.78)<br>-<br>- | 18.83<br>(1.92)<br>-<br>- |
| CK22.1-6.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.96<br>(1.73)<br>38.57<br>0.077 | 20.40<br>(2.08)<br>64.90<br>- | 22.46<br>(2.29)<br>-<br>- | 24.52<br>(2.50)<br>-<br>- | 26.48<br>(2.70)<br>-<br>- | 28.54<br>(2.91)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.95<br>(1.83)<br>41.22<br>0.083 | 21.57<br>(2.20)<br>70.25<br>- | 23.73<br>(2.42)<br>-<br>- | 25.89<br>(2.64)<br>-<br>- | 28.05<br>(2.86)<br>-<br>- | 30.20<br>(3.08)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.36<br>(1.97)<br>46.75<br>0.089 | 23.24<br>(2.37)<br>78.15<br>- | 25.56<br>(2.61)<br>-<br>- | 27.89<br>(2.84)<br>-<br>- | 30.21<br>(3.08)<br>-<br>- | 32.53<br>(3.32)<br>-<br>- |
| CK22.1-6.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15.89<br>(1.62)<br>30.22<br>0.069 | 19.12<br>(1.95)<br>46.79<br>- | 20.99<br>(2.14)<br>-<br>- | 22.95<br>(2.14)<br>-<br>- | 24.81<br>(2.53)<br>-<br>- | 26.77<br>(2.73)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.06<br>(1.74)<br>32.66<br>0.077 | 20.49<br>(2.09)<br>53.68<br>- | 22.55<br>(2.30)<br>-<br>- | 24.61<br>(2.51)<br>-<br>- | 26.67<br>(2.72)<br>-<br>- | 28.73<br>(2.93)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.67<br>(1.60)<br>39.11<br>0.088 | 22.41<br>(2.29)<br>63.81<br>- | 24.66<br>(2.51)<br>-<br>- | 26.90<br>(2.74)<br>-<br>- | 29.14<br>(2.97)<br>-<br>- | 31.28<br>(3.20)<br>-<br>- |
| CK26.2-1.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.87<br>(1.72)<br>41.44<br>0.083 | 20.30<br>(2.07)<br>65.00<br>- | 22.36<br>(2.28)<br>-<br>- | 24.32<br>(2.48)<br>-<br>- | 26.38<br>(2.69)<br>-<br>- | 28.44<br>(2.90)<br>-<br>- |
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.95<br>(1.83)<br>41.44<br>0.083 | 21.57<br>(2.20)<br>70.33<br>- | 23.73<br>(2.42)<br>-<br>- | 25.89<br>(2.64)<br>-<br>- | 28.05<br>(2.86)<br>-<br>- | 30.20<br>(3.08)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.32<br>(1.97)<br>46.94<br>0.088 | 23.19<br>(2.37)<br>78.25<br>- | 25.51<br>(2.60)<br>-<br>- | 27.83<br>(2.84)<br>-<br>- | 30.15<br>(3.07)<br>-<br>- | 32.47<br>(3.31)<br>-<br>- |
| CK26.2-1.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 15.89<br>(1.62)<br>45.23<br>0.113 | 19.12<br>(1.95)<br>76.39<br>- | 20.99<br>(2.14)<br>-<br>- | 22.95<br>(2.34)<br>-<br>- | 24.81<br>(2.53)<br>-<br>- | 26.77<br>(2.73)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.87<br>(1.72)<br>49.73<br>0.129 | 20.20<br>(2.06)<br>83.79<br>- | 22.26<br>(2.27)<br>-<br>- | 24.22<br>(2.47)<br>-<br>- | 26.28<br>(2.68)<br>-<br>- | 28.24<br>(2.88)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.40<br>(1.88)<br>60.07<br>0.161 | 22.09<br>(2.25)<br>101.90<br>- | 24.30<br>(2.48)<br>-<br>- | 26.51<br>(2.70)<br>-<br>- | 28.72<br>(2.93)<br>-<br>- | 30.93<br>(3.15)<br>-<br>- |
| CK22.2-1.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 25.50<br>(2.60)<br>25.04<br>0.065 | 30.60<br>(3.12)<br>41.47<br>- | 33.64<br>(3.43)<br>-<br>- | 36.38<br>(3.74)<br>-<br>- | 39.81<br>(4.06)<br>-<br>- | 42.85<br>(4.37)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 27.07<br>(2.76)<br>26.61<br>0.071 | 32.46<br>(3.31)<br>44.39<br>- | 35.70<br>(3.64)<br>-<br>- | 38.93<br>(3.97)<br>-<br>- | 42.17<br>(4.30)<br>-<br>- | 45.40<br>(4.63)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 29.13<br>(2.97)<br>26.61<br>0.071 | 32.46<br>(3.31)<br>44.39<br>- | 35.70<br>(3.64)<br>-<br>- | 38.93<br>(3.97)<br>-<br>- | 42.17<br>(4.30)<br>-<br>- | 45.40<br>(4.63)<br>-<br>- |
| CK22.2-1.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 23.73<br>(2.42)<br>20.93<br>0.063 | 28.54<br>(2.91)<br>34.84<br>- | 31.38<br>(3.20)<br>-<br>- | 34.22<br>(3.49)<br>-<br>- | 37.07<br>(3.78)<br>-<br>- | 39.91<br>(4.07)<br>-<br>- |
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 25.59<br>(2.61)<br>22.91<br>0.072 | 30.69<br>(3.13)<br>38.77<br>- | 33.73<br>(3.44)<br>-<br>- | 36.87<br>(3.76)<br>-<br>- | 39.91<br>(4.07)<br>-<br>- | 42.95<br>(4.38)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 27.85<br>(2.84)<br>2638<br>0.084 | 33.44<br>(3.41)<br>45.88<br>- | 36.77<br>(3.75)<br>-<br>- | 40.11<br>(4.09)<br>-<br>- | 43.44<br>(4.43)<br>-<br>- | 46.78<br>(4.77)<br>-<br>- |
| CK22.3-1.1 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.97<br>(1.73)<br>25.75<br>0.147 | 20.40<br>(2.08)<br>48.73<br>- | 22.46<br>(2.29)<br>-<br>- | 24.52<br>(2.50)<br>-<br>- | 26.48<br>(2.70)<br>-<br>- | 28.54<br>(2.91)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.75<br>(1.81)<br>27.30<br>0.156 | 21.28<br>(2.17)<br>52.75<br>- | 23.44<br>(2.39)<br>-<br>- | 25.50<br>(2.60)<br>-<br>- | 27.65<br>(2.82)<br>-<br>- | 29.81<br>(3.04)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.53<br>(1.89)<br>29.52<br>0.158 | 22.26<br>(2.27)<br>55.83<br>- | 24.52<br>(2.50)<br>-<br>- | 26.67<br>(2.72)<br>-<br>- | 28.93<br>(2.95)<br>-<br>- | 31.18<br>(3.18)<br>-<br>- |
| CK22.3-1.2 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.85<br>(1.82)<br>27.13<br>0.157 | 21.48<br>(2.19)<br>48.86<br>- | 23.63<br>(2.41)<br>-<br>- | 25.79<br>(2.63)<br>-<br>- | 27.95<br>(2.85)<br>-<br>- | 30.11<br>(3.07)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.83<br>(1.92)<br>29.84<br>0.179 | 22.55<br>(2.30)<br>53.56<br>- | 24.81<br>(2.53)<br>-<br>- | 27.07<br>(2.76)<br>-<br>- | 29.32<br>(2.99)<br>-<br>- | 31.58<br>(3.22)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 20.40<br>(2.08)<br>36.95<br>0.236 | 24.52<br>(2.50)<br>65.52<br>- | 26.97<br>(2.75)<br>-<br>- | 29.42<br>(3.00)<br>-<br>- | 31.87<br>(3.25)<br>-<br>- | 34.32<br>(3.50)<br>-<br>- |
| CK26.1-1.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.24<br>(1.86)<br>73.35<br>0.118 | 21.87<br>(2.23)<br>108.65<br>- | 24.03<br>(2.45)<br>-<br>- | 26.28<br>(2.68)<br>-<br>- | 28.44<br>(2.90)<br>-<br>- | 30.60<br>(3.12)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.83<br>(1.92)<br>73.37<br>0.118 | 22.55<br>(2.30)<br>108.75<br>- | 24.81<br>(2.53)<br>-<br>- | 27.07<br>(2.76)<br>-<br>- | 29.32<br>(2.99)<br>-<br>- | 31.58<br>(3.22)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.52<br>(1.99)<br>76.21<br>0.116 | 23.44<br>(2.39)<br>113.57<br>- | 25.79<br>(2.63)<br>-<br>- | 28.14<br>(2.87)<br>-<br>- | 30.50<br>(3.11)<br>-<br>- | 32.85<br>(3.35)<br>-<br>- |
| CK26. 1-2.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.24<br>(1.86)<br>73.35<br>0.1180 | 21.87<br>(2.23)<br>108.65<br>- | 24.03<br>(2.45)<br>-<br>- | 26.28<br>(2.68)<br>-<br>- | 28.44<br>(2.90)<br>-<br>- | 30.60<br>(3.12)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.83<br>(1.92)<br>73.37<br>0.118 | 22.55<br>(2.30)<br>108.75<br>- | 24.81<br>(2.53)<br>-<br>- | 27.07<br>(2.76)<br>-<br>- | 29.32<br>(2.99)<br>-<br>- | 31.58<br>(3.22)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.52<br>(1.99)<br>76.21<br>0.116 | 23.44<br>(2.39)<br>113.57<br>- | 25.79<br>(2.63)<br>-<br>- | 28.14<br>(2.87)<br>-<br>- | 30.50<br>(3.11)<br>-<br>- | 32.85<br>(3.35)<br>-<br>- |
| CK26. 1-3.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 21.48<br>(2.19)<br>77.70<br>0.091 | 25.79<br>(2.63)<br>106.36<br>- | 28.34<br>(2.89)<br>-<br>- | 30.99<br>(3.16)<br>-<br>- | 33.54<br>(3.42)<br>-<br>- | 36.09<br>(3.68)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 22.16<br>(2.26)<br>78.10<br>0.092 | 26.58<br>(2.71)<br>107.45<br>- | 29.22<br>(2.98)<br>-<br>- | 31.87<br>(3.25)<br>-<br>- | 34.52<br>(3.52)<br>-<br>- | 37.17<br>(3.79)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 23.05<br>(2.35)<br>79.77<br>0.093 | 27.65<br>(2.82)<br>114.43<br>- | 30.40<br>(3.10)<br>-<br>- | 33.15<br>(3.38)<br>-<br>- | 35.89<br>(3.66)<br>-<br>- | 38.74<br>(3.95)<br>-<br>- |
| CK26. 1-4.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.38<br>(1.67)<br>48.98<br>0.089 | 19.61<br>(2.00)<br>80.94<br>- | 21.57<br>(2.20)<br>-<br>- | 23.54<br>(2.40)<br>-<br>- | 25.50<br>(2.60)<br>-<br>- | 27.46<br>(2.80)<br>-<br>- |
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 16.96<br>(1.73)<br>50.84<br>0.093 | 20.40<br>(2.08)<br>83.92<br>- | 22.46<br>(2.29)<br>-<br>- | 24.52<br>(2.50)<br>-<br>- | 26.48<br>(2.70)<br>-<br>- | 28.54<br>(2.91)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.75<br>(1.81)<br>52.98<br>0.097 | 21.28<br>(2.17)<br>88.73<br>- | 23.44<br>(2.39)<br>-<br>- | 25.50<br>(2.60)<br>-<br>- | 27.65<br>(2.82)<br>-<br>- | 29.81<br>(3.04)<br>-<br>- |
| CK22. 1-1.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 13.83<br>(1.41)<br>35.19<br>0.142 | 16.57<br>(1.69)<br>56.86<br>- | 18.24<br>(1.86)<br>-<br>- | 19.91<br>(2.03)<br>-<br>- | 21.57<br>(2.20)<br>-<br>- | 23.24<br>(2.37)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14.32<br>(1.46)<br>35.15<br>0.144 | 17.16<br>(1.75)<br>56.56<br>- | 18.83<br>(1.92)<br>-<br>- | 20.59<br>(2.10)<br>-<br>- | 22.26<br>(2.27)<br>-<br>- | 24.03<br>(2.45)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 14.91<br>(1.52)<br>35.49<br>0.143 | 17.85<br>(1.82)<br>57.87<br>- | 19.61<br>(2.00)<br>-<br>- | 21.38<br>(2.18)<br>-<br>- | 23.24<br>(2.37)<br>-<br>- | 25.01<br>(2.55)<br>-<br>- |
| CK22. 1-2.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.46<br>(1.78)<br>42.29<br>0.116 | 20.99<br>(2.14)<br>62.58<br>- | 23.05<br>(2.35)<br>-<br>- | 25.20<br>(2.57)<br>-<br>- | 27.26<br>(2.78)<br>-<br>- | 29.42<br>(3.00)<br>-<br>- |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.04 (1.84)<br>42.01<br>0.117 | 21.67 (2.21)<br>62.04<br>- | 23.83 (2.43)<br>-<br>- | 25.99 (2.65)<br>-<br>- | 28.14 (2.87)<br>-<br>- | 30.30 (3.09)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.83 (1.92)<br>42.23<br>0.117 | 22.65 (2.31)<br>64.15<br>- | 24.91 (2.54)<br>-<br>- | 27.16 (2.77)<br>-<br>- | 29.42 (3.00)<br>-<br>- | 31.67 (3.23)<br>-<br>- |
| CK22. 1-3.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 10.98 (1.12)<br>27.96<br>0.153 | 13.24 (1.35)<br>50.09<br>- | 14.51 (1.48)<br>-<br>- | 15.89 (1.62)<br>-<br>- | 17.16 (1.75)<br>-<br>- | 18.53 (1.89)<br>-<br>- |
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.47 (1.17)<br>27.90<br>0.154 | 13.73 (1.40)<br>50.15<br>- | 15.10 (1.54)<br>-<br>- | 16.47 (1.68)<br>-<br>- | 17.85 (1.82)<br>-<br>- | 19.22 (1.96)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 11.77 (1.20)<br>27.89<br>0.152 | 14.12 (1.44)<br>51.00<br>- | 15.49 (1.58)<br>-<br>- | 16.97 (1.73)<br>-<br>- | 18.34 (1.87)<br>-<br>- | 19.81 (2.02)<br>-<br>- |
| CK22. 1-6.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.85 (1.82)<br>53.84<br>0.087 | 21.48 (2.19)<br>85.53<br>- | 23.63 (2.41)<br>-<br>- | 25.79 (2.63)<br>-<br>- | 27.95 (2.85)<br>-<br>- | 30.11 (3.07)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.63 (1.90)<br>55.78<br>0.091 | 22.36 (2.28)<br>88.36<br>- | 24.61 (2.51)<br>-<br>- | 26.87 (2.74)<br>-<br>- | 29.03 (2.96)<br>-<br>- | 31.28 (3.19)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.42 (1.98)<br>58.70<br>0.089 | 23.34 (2.38)<br>92.92<br>- | 25.69 (2.62)<br>-<br>- | 28.05 (2.86)<br>-<br>- | 30.30 (3.09)<br>-<br>- | 32.66 (3.33)<br>-<br>- |
| CK26. 2-1.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 17.85 (1.82)<br>54.07<br>0.087 | 21.38 (2.18)<br>85.90<br>- | 23.54 (2.40)<br>-<br>- | 25.69 (2.62)<br>-<br>- | 27.75 (2.83)<br>-<br>- | 29.91 (3.05)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.53 (1.89)<br>56.02<br>0.090 | 22.26 (2.27)<br>88.74<br>- | 24.52 (2.50)<br>-<br>- | 26.67 (2.72)<br>-<br>- | 28.93 (2.95)<br>-<br>- | 31.18 (3.18)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 19.42 (1.98)<br>58.44<br>0.093 | 23.34 (2.38)<br>93.44<br>- | 25.69 (2.86)<br>-<br>- | 28.05 (2.86)<br>-<br>- | 30.30 (3.09)<br>-<br>- | 32.66 (3.33)<br>-<br>- |
| CK22. 2-1.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 26.18 (2.67)<br>25.26<br>0.057 | 31.38 (3.20)<br>40.83<br>- | 34.52 (3.52)<br>-<br>- | 37.66 (3.84)<br>-<br>- | 40.80 (4.16)<br>-<br>- | 43.93 (4.48)<br>-<br>- |
| | 80 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 27.36 (2.79)<br>25.87<br>0.060 | 32.85 (3.35)<br>41.83<br>- | 36.09 (3.68)<br>-<br>- | 39.42 (4.02)<br>-<br>- | 42.66 (4.35)<br>-<br>- | 45.99 (4.69)<br>-<br>- |
| | 100 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 29.03 (2.96)<br>27.35<br>0.062 | 34.81 (3.55)<br>45.00<br>- | 38.25 (3.90)<br>-<br>- | 41.78 (4.26)<br>-<br>- | 45.21 (4.61)<br>-<br>- | 48.74 (4.97)<br>-<br>- |
| CK22. 3-1.0 | 75 | Yuklamalar, kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 18.73 (1.91)<br>25.444<br>0.100 | 22.46 (2.29)<br>44.41<br>- | 24.71 (2.52)<br>-<br>- | 26.97 (2.75)<br>-<br>- | 29.22 (2.98)<br>-<br>- | 31.48 (3.21)<br>-<br>- |
| | 85 | Yuklamalar, kN(tf)<br>Egilish, cm | 19.32 (1.97)<br>26.34 | 23.24 (2.37)<br>46.10 | 25.59 (2.61)<br>- | 27.85 (2.84)<br>- | 30.20 (3.08)<br>- | 32.56 (3.32)<br>- |

STANDARTLAR INSTITUTI #84LDMRQ42B - 09.10.2025 "TURON STANDART SERTIFIKATLASHTIRISH MCHJ

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Yoriqlarning kengayishi, mm | 0.104 | - | - | - | - | - |
| | 100 | Yuklamalar,<br>kN(tf)<br>Egilish, cm<br>Yoriqlarning kengayishi, mm | 20.20<br>(2.06)<br>27.42<br>0.108 | 24.22<br>(2.47)<br>48.73<br>- | 26.67<br>(2.72)<br>-<br>- | 29.03<br>(2.96)<br>-<br>- | 31.48<br>(3.21)<br>-<br>- | 33.93<br>(3.46)<br>-<br>- |

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

## B ilova

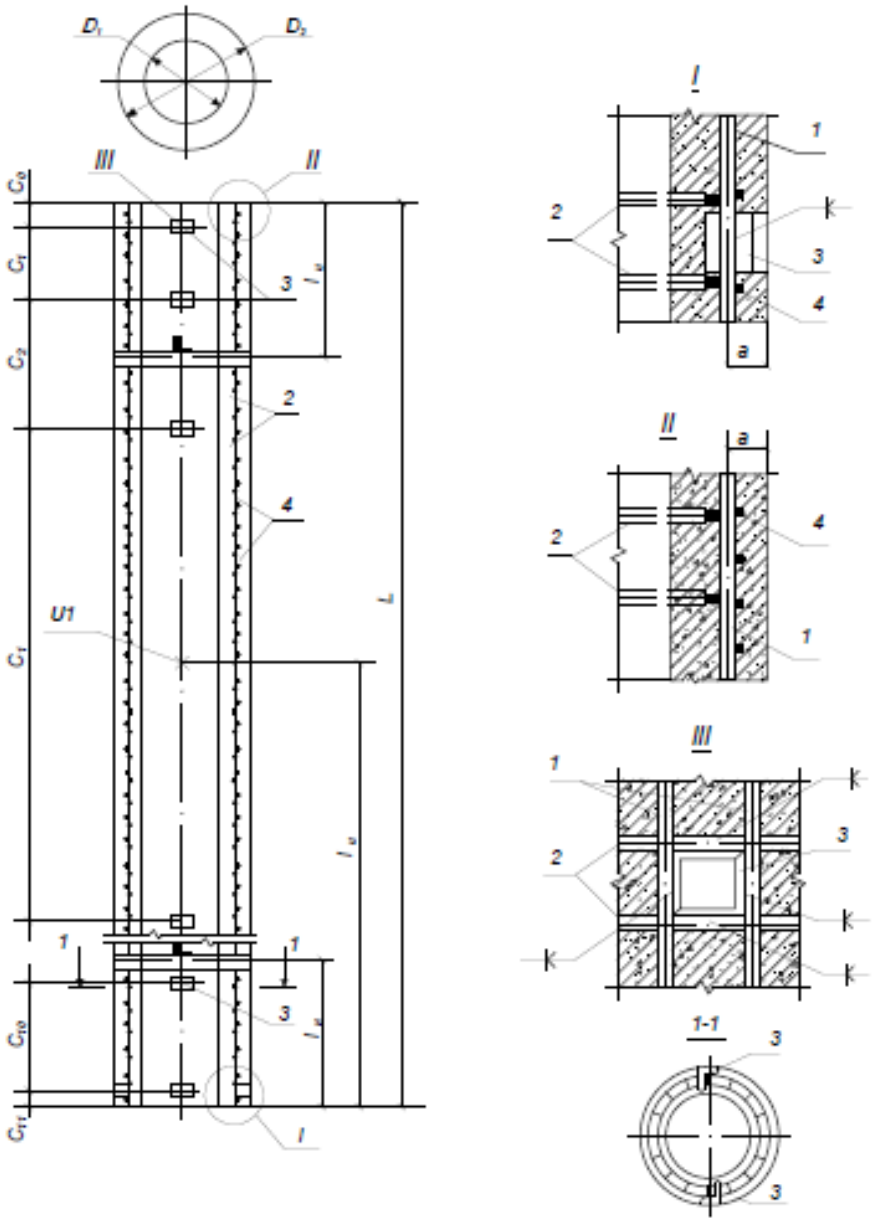
(Normativ)

## Yuqori voltli elektr uzatish liniyalari tirgaklari uchun sentrifugalangan temir-beton silindir ustunlar

B.1-jadval. Silindir ustunlarning texnik ko‘rsatkichlari

| Ustunlarning belgilanishi | Betonning hajmi, $m^3$ | Betonning sinfi | Moment chegarasi, kN*m (tc*m) | | Mahsulot vazni, kg |
|---|---|---|---|---|---|
| | | | Mustahkamligi bilan | Yoriqlar hosil bo’lishi bilan | |
| СЦ26.1-1.0 | 2,4 | B40 | 443,3(45,2) | 85,7(8,74) | 6790 |
| СЦ26.1-1.1 | | | 437.7(44,63) | 109,2(11,14) | 6688 |
| СЦ20.1-1.1 | 3,06 | | 1032,7(105,23) | 283,3(28,89) | 8538 |
| СЦ20.2-1.0 | 3,65 | | 1246,1(127,07) | 1263,6(26,88) | 10276 |
| СЦ20.2-1.1 | | | 1236,4(126,08) | 296,5(30,23) | 10156 |
| СЦ20.2-1.2 | | | 1199,9(122,36) | 284,5(29,01) | 10076 |
| СЦ 20.2-2.1 | | B45 | 1236,4(126,08) | 296,5(30,23) | 10318 |
| СЦ20.3-1,0н | 3,47 | | 1174,4(119,76) | 272,1(27,75) | 9997 |
| СЦ20.3-1.1н | | | 1190,4(121,39) | 284,8(29,04) | 9878 |
| СЦ20.3-1.0в | | | 901,0(91,88) | 245,9(25,07) | 9813 |
| СЦ20.3-1.1в | | | 901,3(91,89) | 275,1(28,05) | 9620 |
| СЦ22.1-1,0 | 2,09 | B40 | 458,8(46,38) | 78,1(7,96) | 5869 |
| СЦ22.1-1.1 | | | 473,3(48,26) | 79,2(8,08) | 5817 |
| СЦ26.2-1.0 | 2,2 | | 327,9(33,44) | 125,4(12,79) | 6192 |
| СЦ26.3-1.0 | | | 367,9(37,52) | 89,4(9,12) | 6244 |
| СЦ26.3-1.1 | | | 330,9(33,74) | 113,1(11,53) | 6142 |
| СЦ26.3-1.2 | | | 336,0(34,26) | 140,0(14,28) | 6132 |
| СЦ26.3-2.0 | | | 367,9(37,52) | 89,4(9,12) | 6177 |
| СЦ26.3-2.1 | | B40 | 330,9(33,74) | 113,1(11,53) | 6096 |
| Izoh: Mahsulotning massasini hisoblashda betonning o’rtacha zichligi 2500 kg/$m^3$ deb hisoblanadi. | | | | | |

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




1-bo‘ylama armatura; 2-montaj xalqalari; 3-joylashtirilgan mahsulotlar; 4-spiral; a-ustunning tashqi yuzasidan bo‘ylama armaturalash o‘qigacha bo‘lgan masofa; $s_0$-$s_3$, $s_{10}$-$s_{11}$- joylashtirilgan mahsulotlarni bog‘lash; s. t. -og‘irlik markazi; L-ustunlarning uzunligi; $I_n$-og‘irlik markazigacha bo‘lgan masofa; $I_n$, $I_v$-diafragma o‘rnatish joylarigacha bo‘lgan masofa; $D_1$-ustunning ichki diametri; $D_2$-ustunning tashqi diametri

B.1-rasm

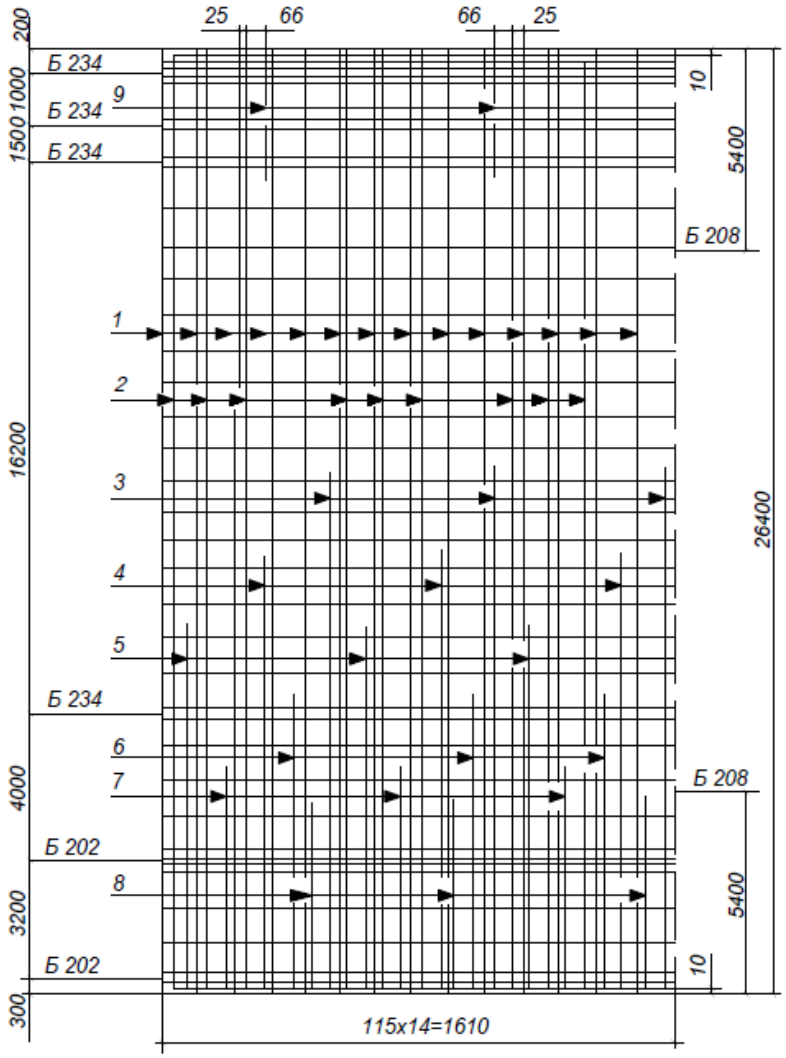
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

B.2-jadval. Ustunlarni ishlab chiqarishda foydalaniladigan materiallar sarfi

| Ustunlarning belgilanishi | Ustunlarning tashqi yuzasidan armaturalarning bo’ylama o’qigacha bo’lgan masofa, mm. | Materiallar sarfi | | | | | | | | | | O’rnatilgan mahsulotlar,kg. | Umumiy po’lat sarfi, kg. | Nazorat qilinadigan kuchlanish, kN (tk) | MUT kodi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Bo’ylama armatura | | | | Buramalar (spiral) | | Montaj halqalari | | Yerga ulangan sterjenlar | | | | | |
| | | Zo’riqtirilgan | | Zo’riqtirilmagan | | | | | | | | | | | |
| | | Turlari | Massa, kg | Turlari | Massa, kg | Turlari | Massa, kg | Turlari | Massa, kg | Turlari | Macca, kg | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| СЦ26.1-1.0 | 24 | Ø12AIV(A500) | 328,2 | Ø12AIV(A600) | 304,4 | Ø4 BI | 61,9 | Ø8AI(A240) | 23,5 | Ø12AIV(A600) | 46,9 | 25,2 | 790,1 | 838(85,45) | 58 6311 0090 |
| СЦ26.1-1.1 | | Ø12AV(A800) | 328,2 | Ø12AV(A800) | 201,8 | | 61,9 | | 23,5 | Ø12AV(A800) | 46,9 | 25,2 | 687,5 | 1118(114,0) | 58 6311 0091 |
| СЦ20.1-1.1 | 30 | Ø12AV(A800) | 390,7 | Ø12AV(A800) | 256,0 | Ø5 BI | 118,6 | Ø12AI(A240) | 4,2 | Ø12AV(A800) | 35,5 | 54,4 | 888,0 | 1767(179,16) | 58 6311 0092 |
| | | | | | | | | Ø8AI(A240) | 28.6 | | | | | | |
| СЦ20.2-1.0 | 31 | Ø14AIV(A600) | 531,5 | Ø14AIV(A600) | 370,1 | | 118,6 | Ø8AI(A240) | 30,8 | Ø14AIV(A600) | 48,3 | 51,6 | 1150,0 | 1757(179,16) | |
| СЦ20.2-1.1 | | Ø14AV(A800) | 531,5 | Ø14AV(A800) | 249,7 | | 118,6 | | 30,8 | Ø14AV(A800) | 48,3 | 51,6 | 1030,5 | 1755(178,96) | 58 6311 0093 |
| СЦ20.2-1.2 | | Ø14AVI(A1000) | 386,6 | Ø14AVI(A1000) | 314,8 | | 118,6 | | 30,8 | Ø14AV(A1000) | 48,3 | 51,6 | 950,7 | 1939(197,72) | 58 6311 0094 |
| СЦ20.2-2.1 | | Ø14AV(A800) | 531,5 | Ø14AV(A800) | 325,3 | | 198,7 | | 30,3 | Ø14AV(A800) | 48,3 | 58,8 | 1192,9 | 1939(197,72) | 58 6311 0096 |
| СЦ20.3-1.0н | 32 | Ø16AIV(A600) | 694,3 | Ø16AIV(A600) | 214,1 | | 111,2 | | 20,3 | Ø16AIV(A800) | 126,1 | 155,8 | 1321,81 | 1622(185,79) | 58 6311 0097 |
| | | | | | | | | | | | | 150,8 | 316,8 | | |
| СЦ20.3-1.1н | | Ø16AV(A800) | 694,3 | Ø14AV(A800) | 125,1 | | 111,2 | | 20,3 | Ø14AV(A800) | 96,5 | 155,8 | 1203,2 | 2010(204,96) | 58 6311 0098 |
| | | | | | | | | | | | | 150,8 | 1198,2 | | |
| СЦ20.3-1.0в | | Ø14AIV(A600) | 531,5 | Ø14AIV(A600) | 211,4 | | 110,7 | | 21,2 | Ø14AIV(A600) | 96,5 | 166,5 | 1137,9 | 1395(142,25) | 58 6311 0297 |
| | | | | | | | | | | | | 161,5 | 1132,9 | | |
| СЦ20.3-1.1в | | Ø14AV(A800) | 531,5 | Ø14AV(A800) | 18,1 | | 110,7 | | 22,1 | Ø14AV(A800) | 96,5 | 155,6 | 945,5 | 1538(156,83) | 58 6311 0298 |
| | | | | | | | | | | | | 161,6 | 940,5 | | |
| СЦ22.1-1.0 | 24 | Ø12AIV(A600) | 236,6 | Ø12AIV(A600) | 243,6 | Ø5 BI | 81,3 | Ø8AI(A240) | 22,0 | Ø12AIV(A600) | 39,4 | 21,0 | 643,9 | 719(73,32) | 58 6311 |
| СЦ22.1-1.1 | | Ø12AV(A800) | 236,6 | Ø12AV(A800) | 191,6 | | 81,3 | | 22,0 | Ø12AV(A800) | 39,4 | 21,0 | 591,9 | 715(72,91) | 58 6311 |
| СЦ26.2-1.0 | | Ø12AIV(A600) | 468,9 | Ø12AIV(A600) | 46,9 | | 56,7 | | 18,8 | Ø12AIV(A600) | 93,8 | 7,2 | 692,3 | 1198(122,16) | 58 6311 0302 |

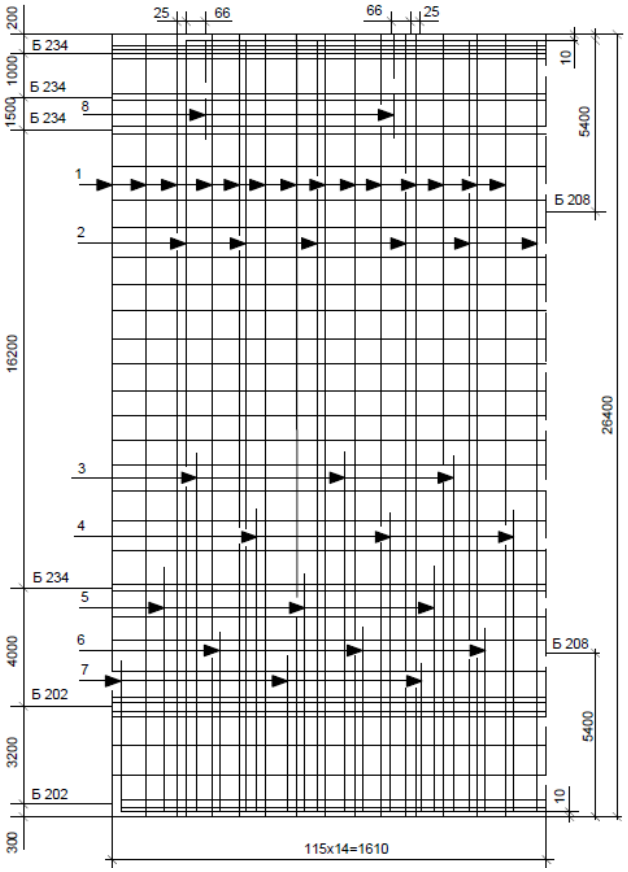
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| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| СЦ26.3-1.0 | 25 | Ø12AIV(A600) | 328,2 | Ø12AIV(A600) | 218,8 | Ø4 BI | 56,7 | | 20,8 | Ø12AIV(A600) | 93,8 | 25,2 | 743,5 | 838(85,45) | 586311 0303 |
| СЦ26.3-1.1 | | Ø12AV(A800) | 328,2 | Ø12AV(A800) | 117,1 | | 56,7 | | 20,8 | Ø12AV(A800) | 93,8 | 25,2 | 641,8 | 1118(114,0) | 586311 0304 |
| СЦ26.3-1.2 | | Ø14AVI(A1000) | 328,2 | Ø14AVI(A1000) | 165,3 | | 46,9 | | 20,8 | Ø14AVI(A1000) | 46,9 | 25,2 | 632,3 | 1398(142,56) | 586311 0305 |
| СЦ26.3-2.0 | | Ø12AIV(A600) | 328,2 | Ø12AIV(A600) | 164,8 | Ø5 BI | 88,8 | | 23,3 | Ø12AIV(A600) | 46,9 | 25,2 | 677,2 | 838(85,45) | 586311 0306 |
| СЦ26.3-2.1 | | Ø12AV(A800) | 328,2 | Ø12AV(A800) | 82,4 | | 88,8 | | 23,3 | Ø12AV(A800) | 46,9 | 25,2 | 594,8 | 1118(114,0) | 586311 0307 |




СЦ26.1-1.0
Ustunlarni armaturalash (yoyilgan holatda)
B.2-rasm

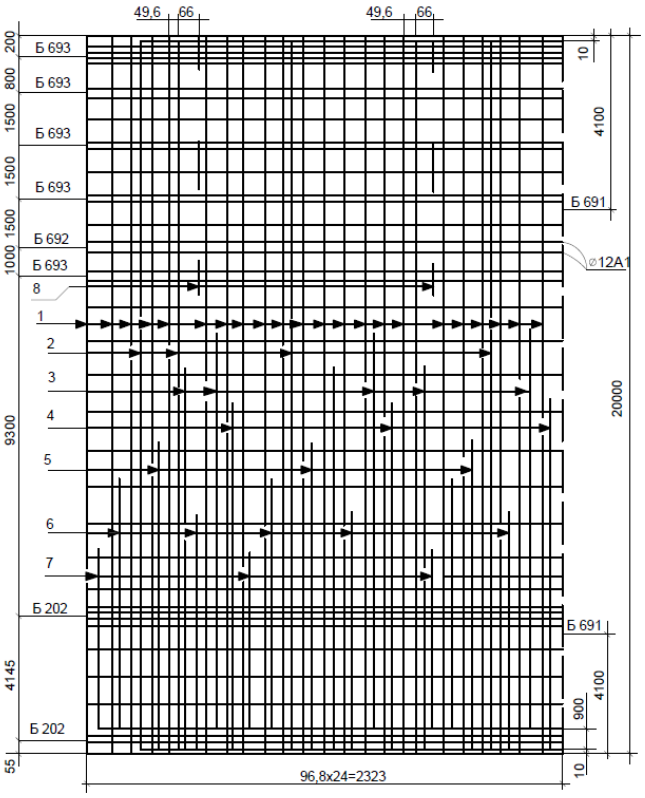
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




СЦ26.1-1.1

Ustunlarni armaturalash (yoyilgan holatda)

B.3-rasm

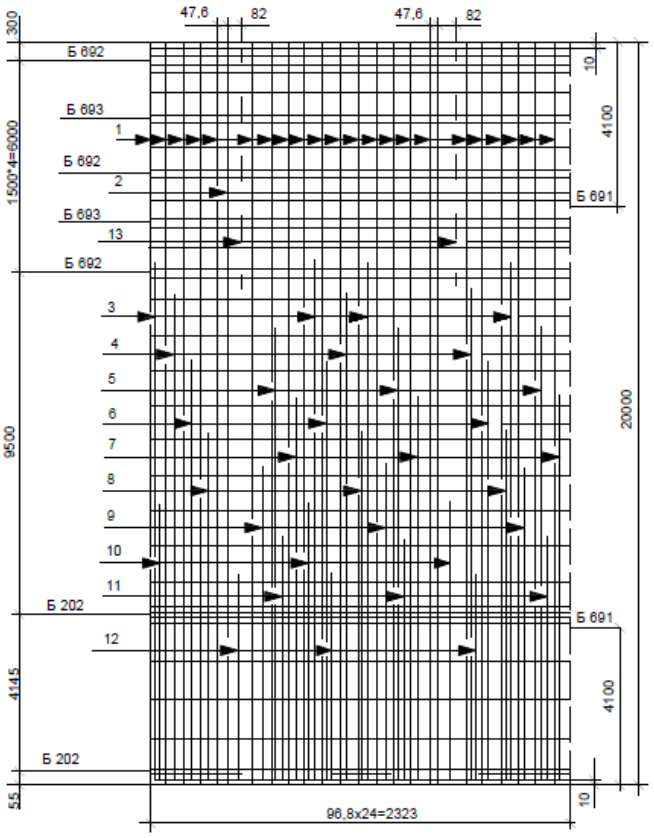



СЦ20. l. -l. l

Ustunlarni armaturalash (yoyilgan holatda)

B.4-rasm

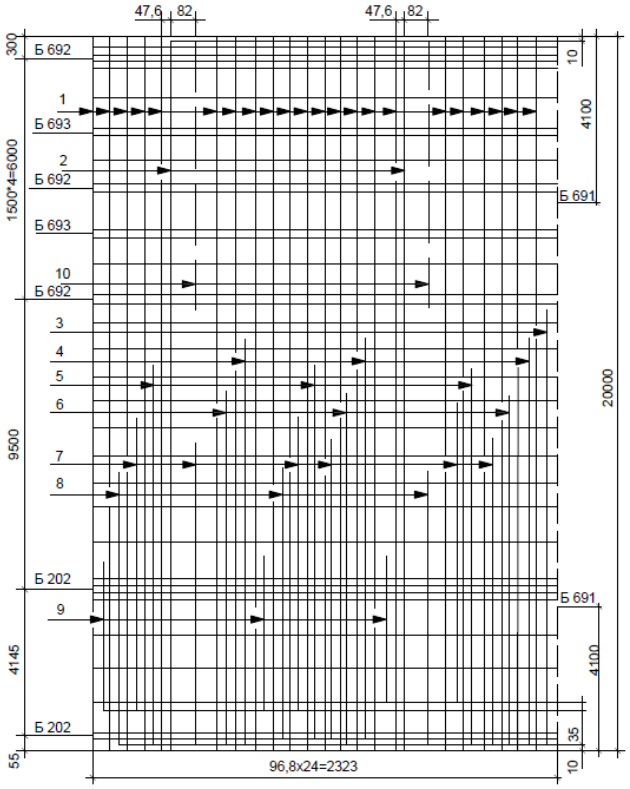
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СЦ20.2-1.0

Ustunlarni armaturalash (yoyilgan holatda)

B.5-rasm

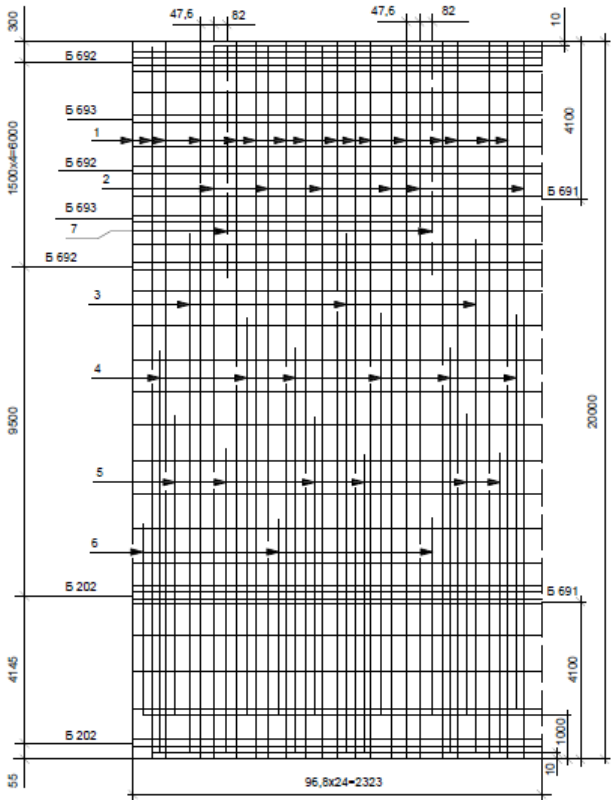



СЦ20.2-1.1

Ustunlarni armaturalash (yoyilgan holatda)

B.6-rasm

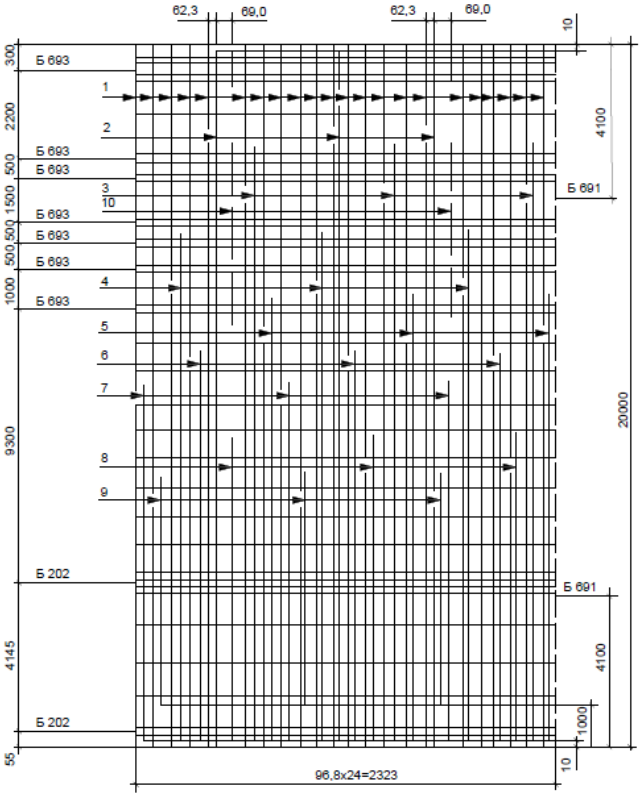
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СЦ20.2-1.2

Ustunlarni armaturalash (yoyilgan holatda)

B.7-rasm

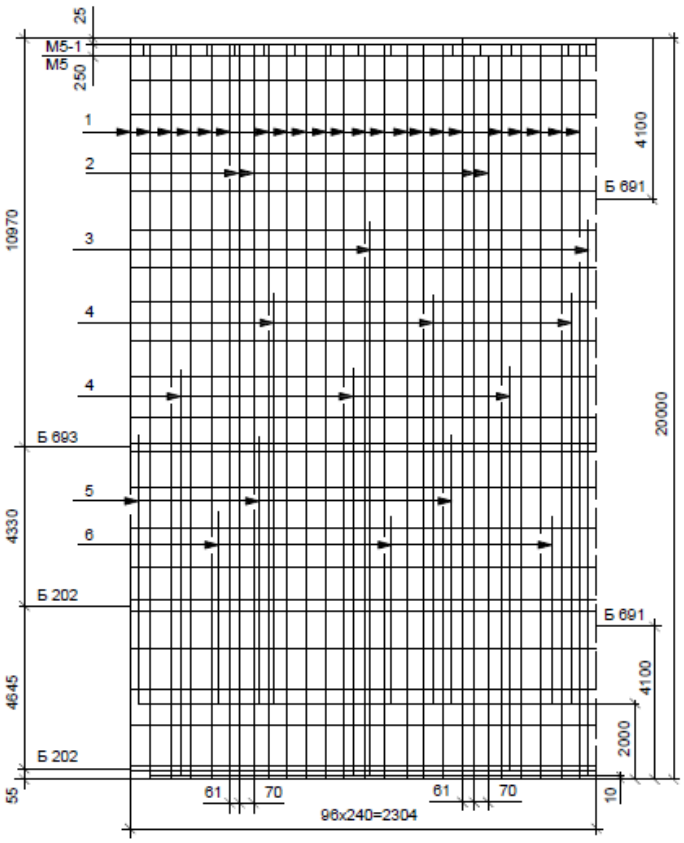



СЦ20.2-2.1

Ustunlarni armaturalash (yoyilgan holatda)

B.8-rasm

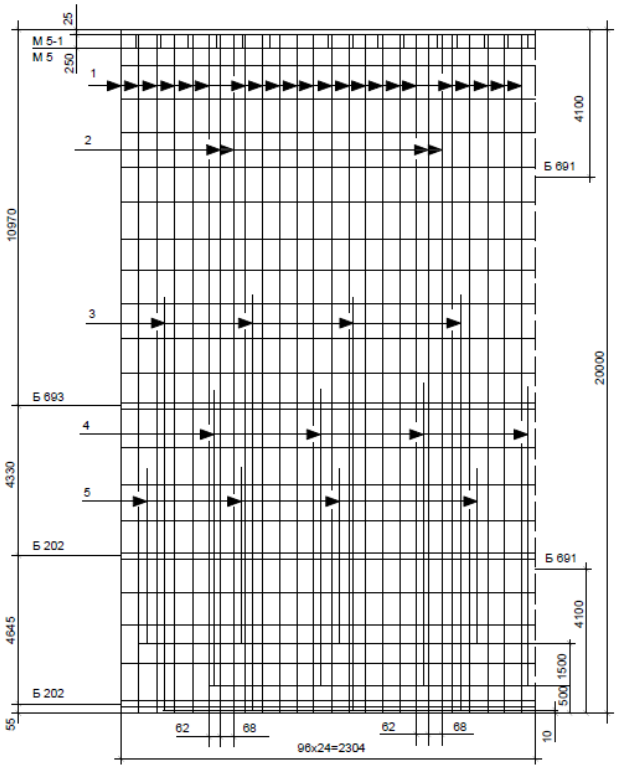
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




СЦ20.3-1.0н

Ustunlarni armaturalash (yoyilgan holatda)

B.9-rasm

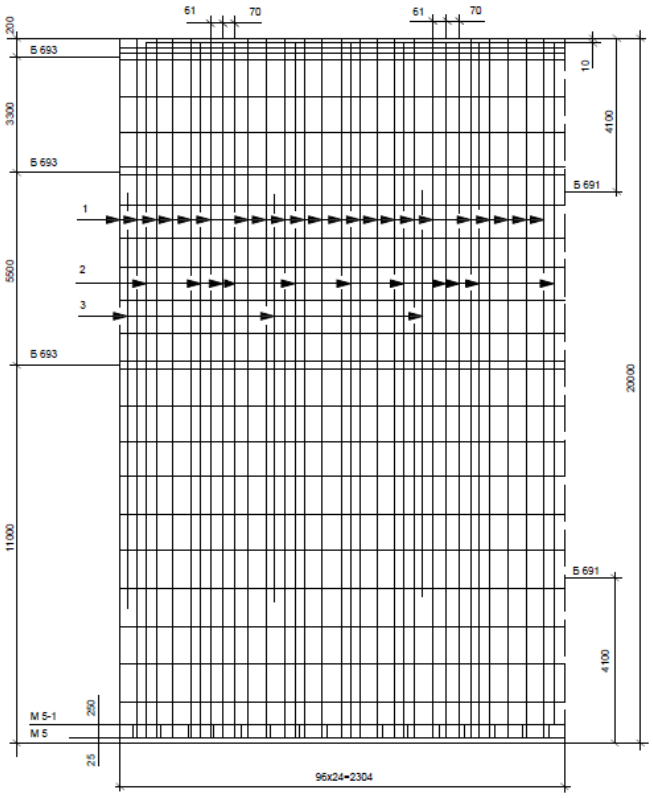



СЦ20.3-1.1н

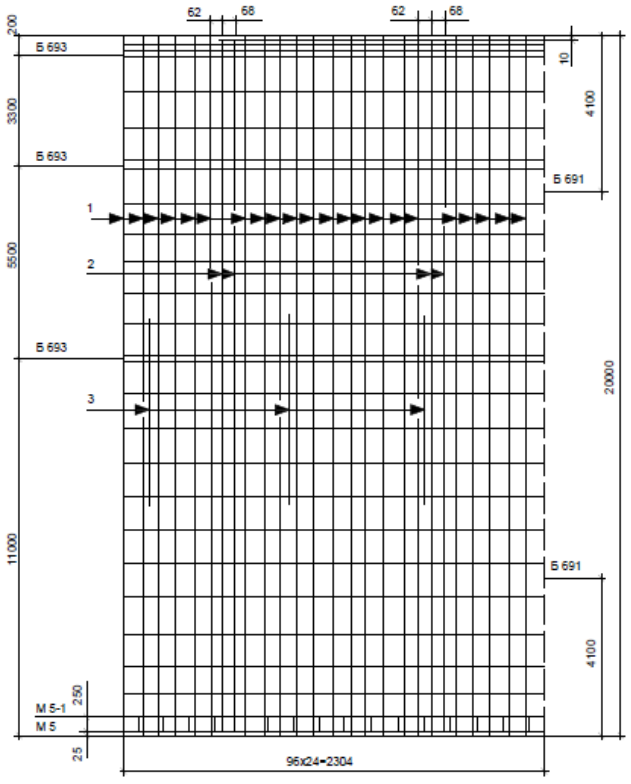
Ustunlarni armaturalash (yoyilgan holatda)

B.10-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

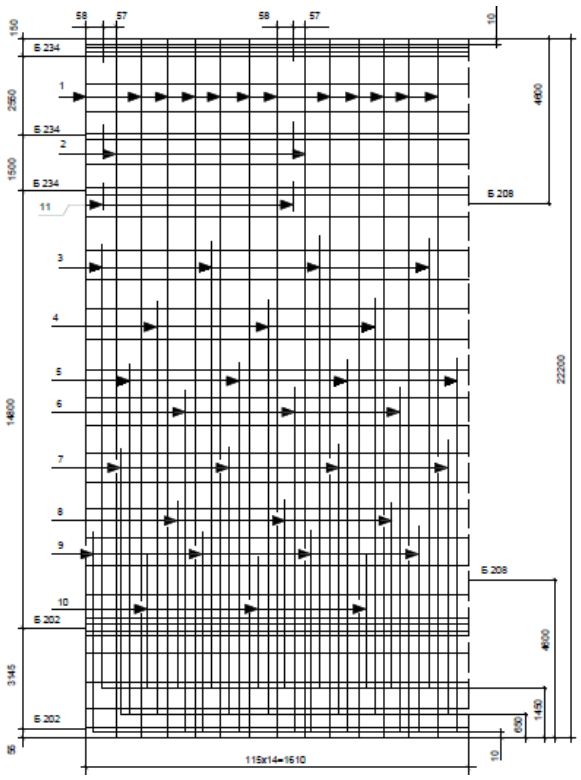



СЦ20.3-1.0н
Ustunlarni armaturalash (yoyilgan holatda)
B.11-rasm

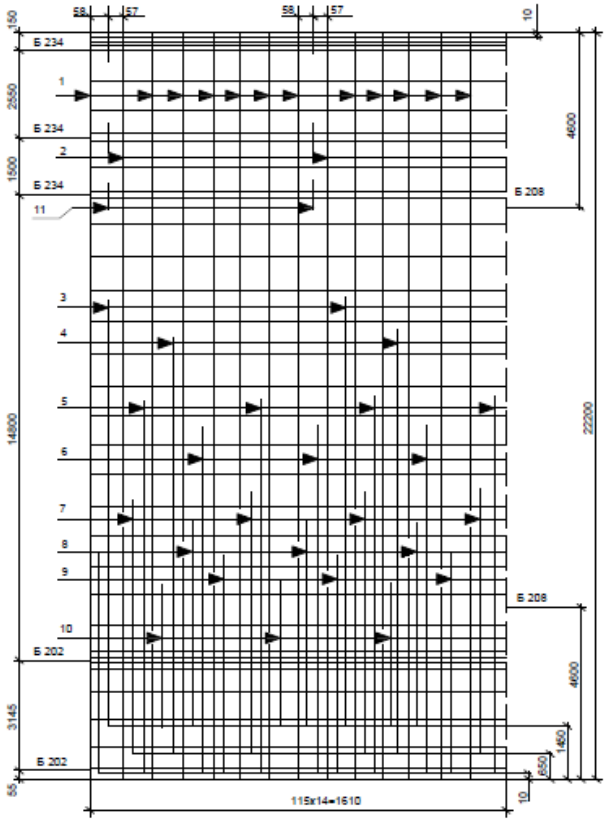



СЦ20.3-1.1в
Ustunlarni armaturalash (yoyilgan holatda)
B.12-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

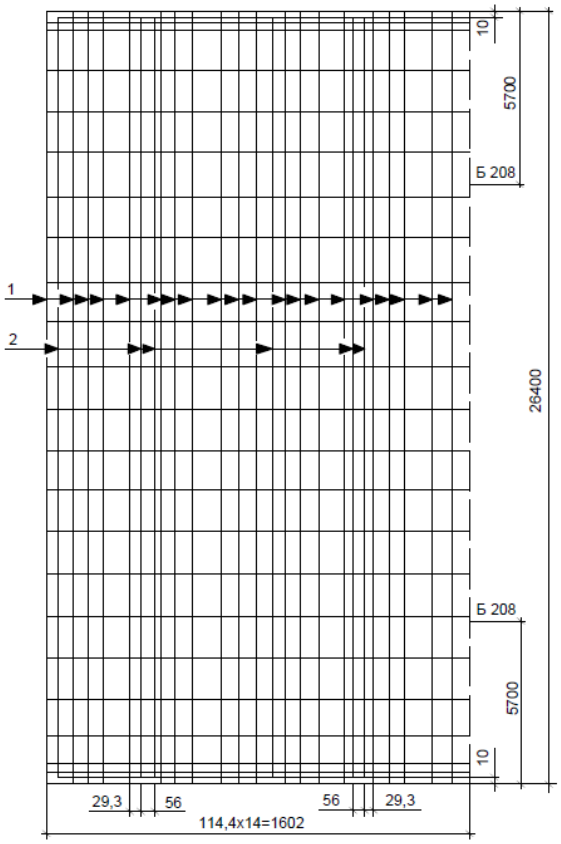



СЦ22.1-1.0
Ustunlarni armaturalash (yoyilgan holatda)
B.13-rasm

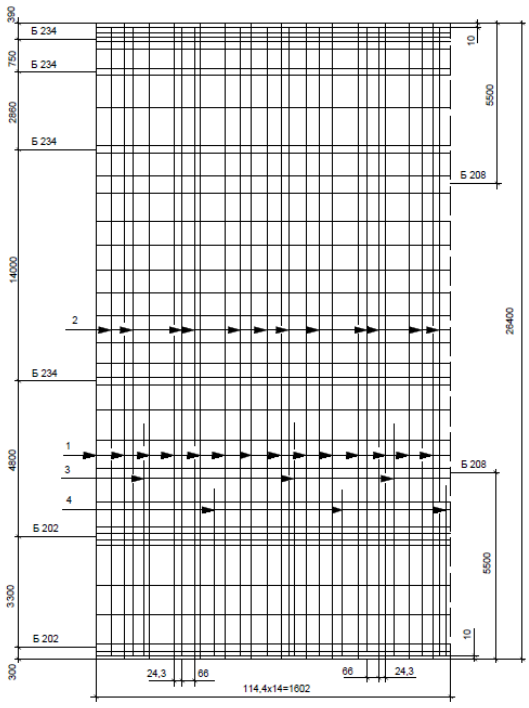



СЦ22.1-1.1
Ustunlarni armaturalash (yoyilgan holatda)
B.14-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

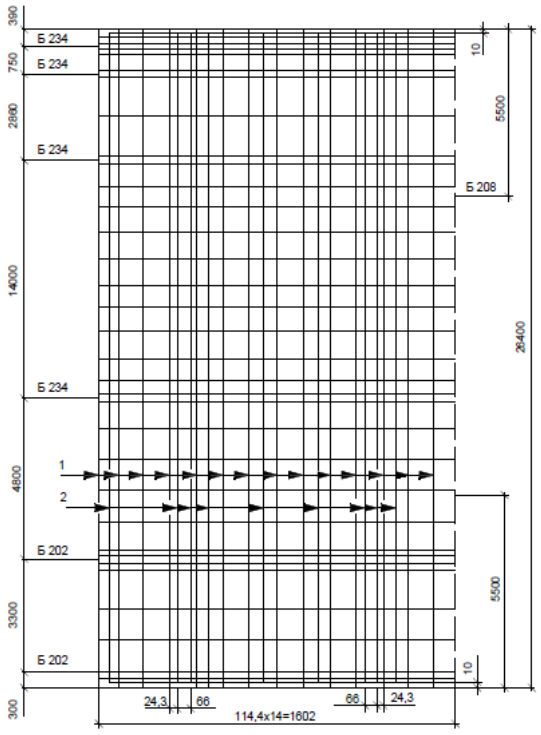



СЦ26.2-1.0
Ustunlarni armaturalash (yoyilgan holatda)
B.15-rasm




СЦ26.3-1.0
Ustunlarni armaturalash (yoyilgan holatda)
B.16-rasm

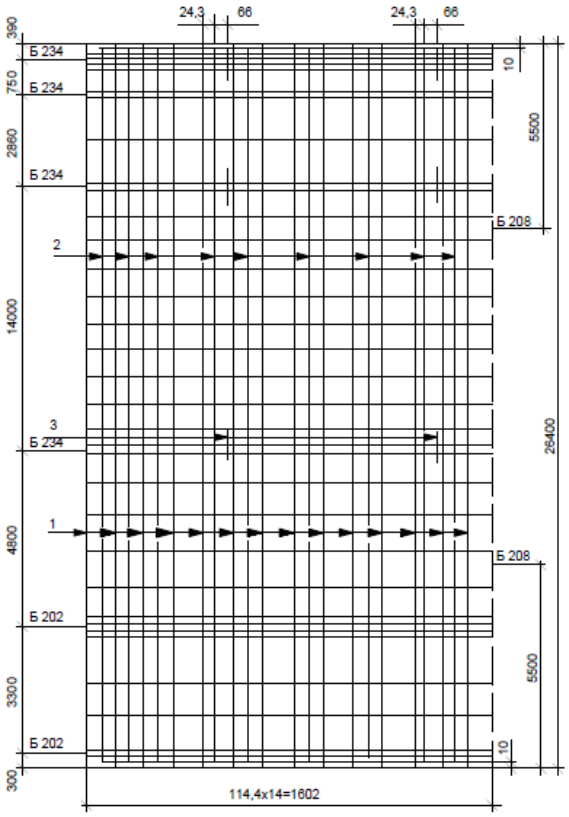
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




СЦ26.3-1.1

Ustunlarni armaturalash (yoyilgan holatda)

B.17-rasm

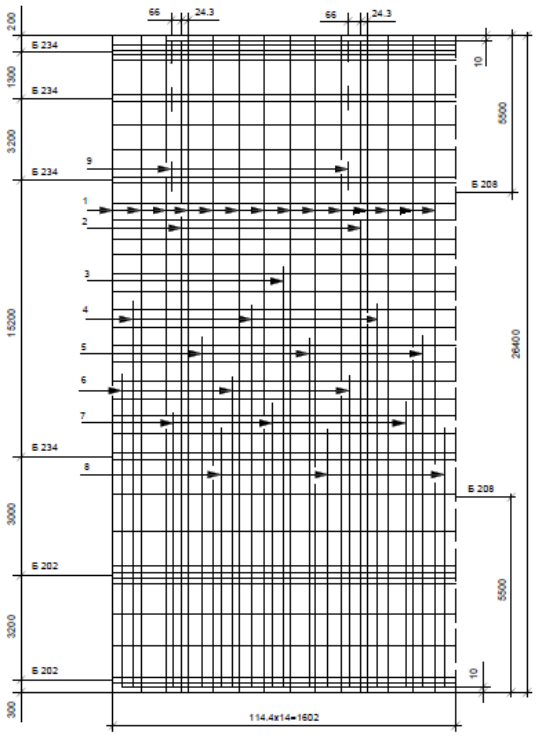



СЦ26.3-1.2

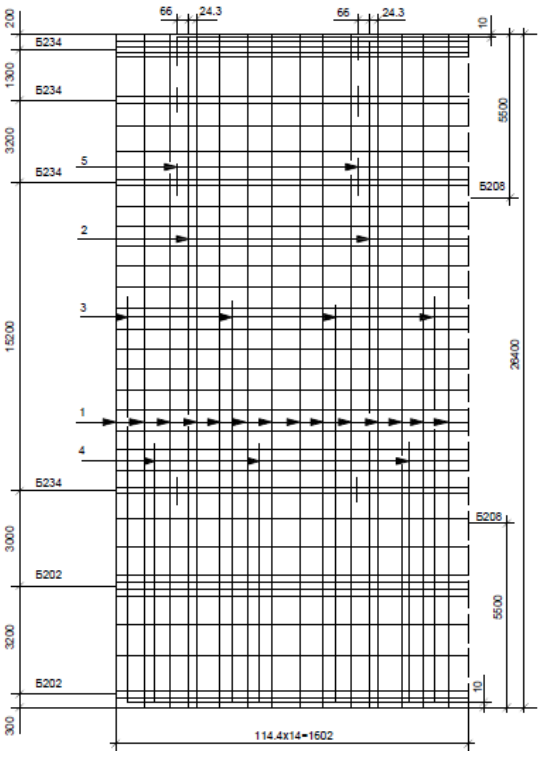
Ustunlarni armaturalash (yoyilgan holatda)

B.18-rasm

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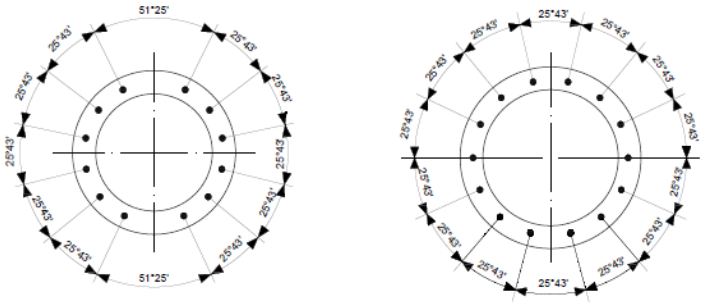



СЦ26.3-2.0
Ustunlarni armaturalash (yoyilgan holatda)
B.19-rasm




СЦ26.3-2.1
Ustunlarni armaturalash (yoyilgan holatda)
B.20-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

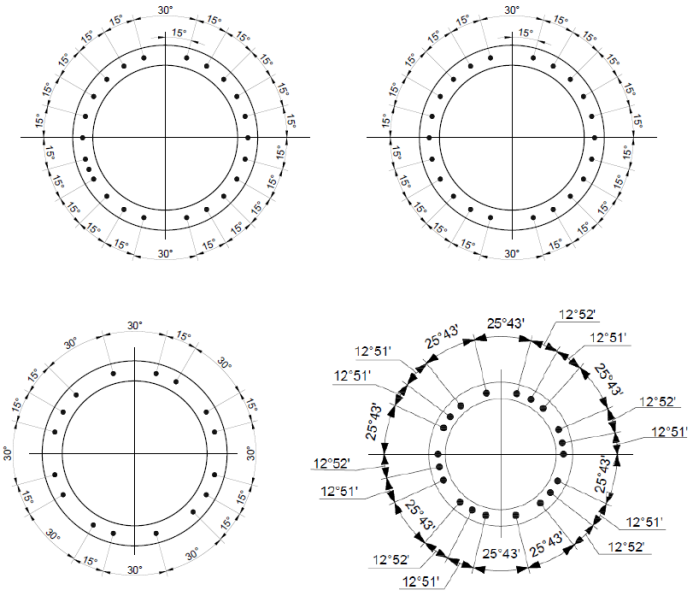



Ustunlarning markalarida zo‘riqtirilgan sterjenlarning joylashishi.
СЦ26.1—1.0, СЦ26.1-1.1, СЦ22.1-1.0, СЦ26.3-1.0,
СЦ26.3-1.1, СЦ26.3-1.2, СЦ26.3-2.1, СЦ26.3-2.0
(o‘rnatilgan maxsulotlar travers vertikal o‘qi bo‘ylab yo‘naltirilgan)

СЦ22.1-1.0, СЦ22.1-1.1

СЦ26.1-1.0, СЦ26.1-1.1,
СЦ26.3-1.0, СЦ26.3-1.1
СЦ26.3-1.2, СЦ26.3-2.0,
СЦ26.3-2.1

B.21-rasm




Ustunlarning markalarida zo‘riqtirilgan sterjenlarning joylashishi

СЦ20.1-1.1, СЦ20.2-1.0, СЦ20.2-1.1, СЦ20.2-1.2, СЦ20.2-2.1,
СЦ20.3-1.0$_{н}$, СЦ20.3-1.1$_{н}$, СЦ20.3-1.0$_{в}$, СЦ20.3-1.1$_{в}$, СЦ26.2-1.0,
(o‘rnatilgan buyumlar travers vertikal o‘qi bo‘ylab yo‘naltirilgan)

СЦ20.1-1.1, СЦ20.2-1.0

СЦ20.2-1.1, СЦ20.2-2.1
СЦ20.3-1.0$_{н}$, СЦ20.8-1.1$_{н}$
СЦ20.3-1.0$_{н}$, СЦ20.3-1.1$_{н}$

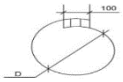
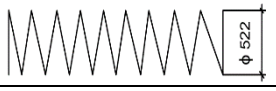
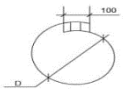
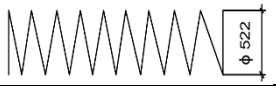
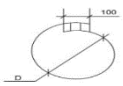
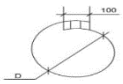
СЦ20.2-1.2

СЦ26.2-1.0

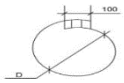
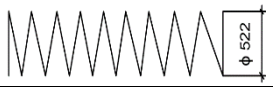
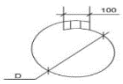
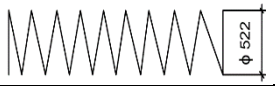
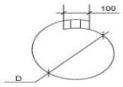
B.22-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

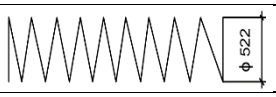
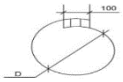
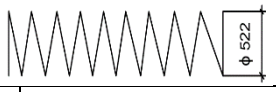
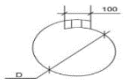
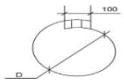
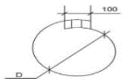
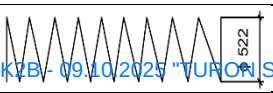
B.3-jadval. Xar bir element uchun armaturalash loyiha tasnifi

| Ustunlarni belgilanishi | Eskiz | Pozitsiya raqami | Diametri, mm | Uzunligi, mm | Pozitsiya miqdori | Umumiy uzunligi, m |
|---|---|---|---|---|---|---|
| СЦ26.1-1.0 | | 1 | Ø12AIV(A600) | 264000 | 14 | 369.6 |
| | | 2 | Ø12AIV(A600) | 263800 | 9 | 237.4 |
| | | 3 | Ø12AIV(A600) | 14300 | 3 | 42.9 |
| | | 4 | Ø12AIV(A600) | 11900 | 3 | 35.7 |
| | | 5 | Ø12AIV(A600) | 9500 | 3 | 28.5 |
| | | 6 | Ø12AIV(A600) | 7100 | 3 | 21.3 |
| | | 7 | Ø12AIV(A600) | 5200 | 3 | 15.6 |
| | | 8 | Ø12AIV(A600) | 4400 | 3 | 13.2 |
| | | 9 | Ø12AIV(A600) | 150 | 6 | 0.9 |
| |  D=484 mm | | Ø8AI(A240) | 1650 | 36 | 59.4 |
| |  | | Ø4BI | - | - | 625.0 |
| СЦ26,1-1.1 | | 1 | Ø12AV(A800) | 200000 | 22 | 440,0 |
| | | 2 | Ø12AV(A800) | 199800 | 5 | 160,0 |
| | | 3 | Ø12AV(A800) | 11300 | 6 | 67,8 |
| | | 4 | Ø12AV(A800) | 10400 | 3 | 31,2 |
| | | 5 | Ø12AV(A800) | 9400 | 3 | 28,2 |
| | | 6 | Ø12AV(A800) | 7500 | 6 | 22,5 |
| | | 7 | Ø12AV(A800) | 5600 | 3 | 16,8 |
| | | 8 | Ø12AV(A800) | 150 | 12 | 1,8 |
| |  D=434 mm | | Ø8AI(A240) | 1650 | 36 | 59.4 |
| |  | | Ø4BI | - | - | 625.0 |
| СЦ20.1-1.1 | | 1 | Ø12AV(A800) | 20000 | 22 | 440,0 |
| | | 2 | Ø12AV(A800) | 19980 | 5 | 160,0 |
| | | 3 | Ø12AV(A800) | 11300 | 6 | 67,8 |
| | | 4 | Ø12AV(A800) | 11040 | 3 | 31,2 |
| | | 5 | Ø12AV(A800) | 9400 | 3 | 28,2 |
| | | 6 | Ø12AV(A800) | 7500 | 6 | 22,5 |
| | | 7 | Ø12AV(A800) | 5600 | 3 | 16,8 |
| | | 8 | Ø12AV(A800) | 150 | 12 | 1,8 |
| СЦ20.1-1.1 |  D=704 mm | | Ø12AI(A240) | 2350 | 2 | 4,7 |
| |  D=712 mm | | Ø8AI(A240) | 2360 | 32 | 72,5 |

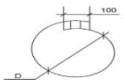
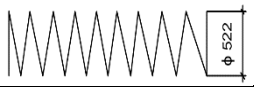
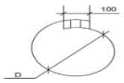
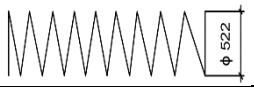
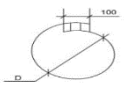
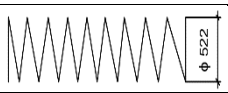
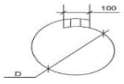
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| |  | | Ø5BI | - | - | 770.0 |
| СЦ20.2-1.0 | | 1 | Ø14AIV(A600) | 20000 | 22 | 440,0 |
| | | 2 | Ø14AIV(A600) | 19980 | 2 | 40,0 |
| | | 3 | Ø14AIV(A600) | 14800 | 4 | 59,2 |
| | | 4 | Ø14AIV(A600) | 13100 | 3 | 39,3 |
| | | 5 | Ø14AIV(A600) | 12100 | 3 | 36,3 |
| | | 6 | Ø14AIV(A600) | 11100 | 3 | 33,3 |
| | | 7 | Ø14AIV(A600) | 10100 | 3 | 30,3 |
| | | 8 | Ø14AIV(A600) | 9100 | 3 | 27,3 |
| | | 9 | Ø14AIV(A600) | 8100 | 3 | 24,3 |
| | | 10 | Ø14AIV(A600) | 7100 | 3 | 21,3 |
| | | 11 | Ø14AIV(A600) | 6100 | 3 | 18,3 |
| | | 12 | Ø14AIV(A600) | 5100 | 3 | 15,3 |
| | | 13 | Ø14AIV(A600) | 150 | 10 | 1,5 |
| |  D=712 mm | | Ø8AI(A240) | 2360 | 33 | 77.9 |
| |  | | Ø5BI | - | - | 770 |
| СЦ20.2-1.1 | | 1 | Ø14AV(A800) | 20000 | 22 | 440,0 |
| | | 2 | Ø14AV(A800) | 19980 | 2 | 40,0 |
| | | 3 | Ø14AV(A800) | 13800 | 1 | 13,8 |
| | | 4 | Ø14AV(A800) | 12800 | 3 | 38,4 |
| | | 5 | Ø14AV(A800) | 11900 | 3 | 35,7 |
| | | 6 | Ø14AV(A800) | 11000 | 3 | 33,0 |
| | | 7 | Ø14AV(A800) | 8500 | 3 | 51,0 |
| | | 8 | Ø14AV(A800) | 7200 | 3 | 21,6 |
| | | 9 | Ø14AV(A800) | 3900 | 3 | 11,7 |
| | | 10 | Ø14AV(A800) | 150 | 10 | 1,5 |
| СЦ20.2-1.1 |  D=712 mm | | Ø8AI(A240) | 2360 | 33 | 77,9 |
| |  | | Ø5BI | - | - | 770 |
| СЦ20.2-1.2 | | 1 | Ø14AVI(A1000) | 20000 | 16 | 320,0 |
| | | 2 | Ø14AVI(A1000) | 19980 | 6 | 120,0 |
| | | 3 | Ø14AVI(A1000) | 14800 | 3 | 44,8 |
| | | 4 | Ø14AVI(A1000) | 11500 | 6 | 69,0 |
| | | 5 | Ø14AVI(A1000) | 8300 | 6 | 49,8 |
| | | 6 | Ø14AVI(A1000) | 5300 | 3 | 15,9 |
| | | 7 | Ø14AVI(A1000) | 150 | 10 | 1,5 |
| |  D=712 mm | | Ø8AI(A240) | 2350 | 33 | 78,0 |

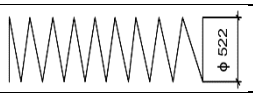
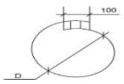
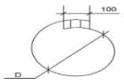
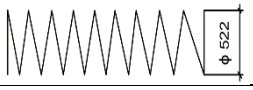
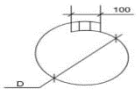
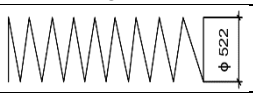
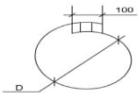
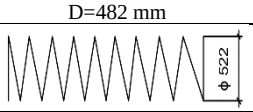
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| |  | | Ø5BI | - | - | 770 |
| СЦ20.2-2.1 |  | 1 | Ø14AV(A800) | 20000 | 22 | 440,0 |
| | | 2 | Ø14AV(A800) | 19980 | 3 | 60,0 |
| | | 3 | Ø14AV(A800) | 17300 | 3 | 51,9 |
| | | 4 | Ø14AV(A800) | 14000 | 3 | 42,0 |
| | | 5 | Ø14AV(A800) | 13300 | 3 | 39,9 |
| | | 6 | Ø14AV(A800) | 11700 | 3 | 35,1 |
| | | 7 | Ø14AV(A800) | 10700 | 3 | 32,1 |
| | | 8 | Ø14AV(A800) | 8700 | 3 | 21,8 |
| | | 9 | Ø14AV(A800) | 6700 | 3 | 20,1 |
| | | 10 | Ø14AV(A800) | 150 | 14 | 2,1 |
| |  D=708 mm | | Ø8AI(A240) | 2260 | 34 | 76,8 |
| |  | | Ø5BI | - | - | 1290,0 |
| СЦ20.3-1.0н |  | 1 | Ø16AIV(A600) | 20000 | 22 | 440,0 |
| | | 2 | Ø16AIV(A600) | 19980 | 4 | 79,9 |
| | | 3 | Ø16AIV(A600) | 15500 | 2 | 31,0 |
| | | 4 | Ø16AIV(A600) | 11500 | 6 | 69,0 |
| | | 5 | Ø16AIV(A600) | 7100 | 3 | 21,3 |
| | | 6 | Ø16AIV(A600) | 4800 | 3 | 14,4 |
| |  D=704 mm | | Ø8AI(A240) | 2335 | 22 | 51,4 |
| |  | | Ø5BI | - | - | 722,0 |
| СЦ20.3-1.1н |  | 1 | Ø16AV(A800) | 20000 | 22 | 440,0 |
| | | 2 | Ø16AV(A800) | 19980 | 4 | 79,9 |
| | | 3 | Ø16AV(A800) | 12100 | 4 | 48,4 |
| | | 4 | Ø16AV(A800) | 9000 | 4 | 36,0 |
| | | 5 | Ø16AV(A800) | 4800 | 4 | 19,2 |
| |  D=704 mm | | Ø8AI(A800) | 2335 | 22 | 51,4 |
| |  | | Ø5BI | - | - | 722,0 |
| СЦ20.3-1.0в |  | 1 | Ø14AIV(A600) | 20000 | 22 | 40,0 |
| | | 2 | Ø14AIV(A600) | 19980 | 11 | 200,8 |
| | | 3 | Ø14AIV(A600) | 11700 | 3 | 35,1 |
| |  D=712 mm | | Ø8AI(A240) | 2335 | 23 | 53,7 |
| |  | | Ø5BI | - | - | 718,7 |

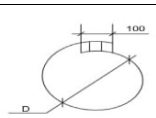
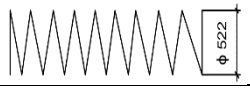
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| | | | | | | |
|---|---|---|---|---|---|---|
| СЦ20.3-1.1в | | 1 | Ø14AV(A800) | 20000 | 22 | 440,0 |
| | | 2 | Ø14AV(A800) | 19980 | 4 | 79,9 |
| | | 3 | Ø14AV(A800) | 5000 | 3 | 15,0 |
| |  D=712 mm | | Ø8AI(A240) | 2335 | 24 | 56,0 |
| |  | | Ø5BI | - | - | 718,7 |
| СЦ22.1-1.0 | | 1 | Ø12AIV(A600) | 22200 | 12 | 266,4 |
| | | 2 | Ø12AIV(A600) | 22180 | 2 | 44,4 |
| | | 3 | Ø12AIV(A600) | 14900 | 4 | 59,6 |
| | | 4 | Ø12AIV(A600) | 13700 | 3 | 41,1 |
| | | 5 | Ø12AIV(A600) | 12350 | 4 | 49,4 |
| | | 6 | Ø12AIV(A600) | 11300 | 3 | 33,9 |
| | | 7 | Ø12AIV(A600) | 8700 | 4 | 34,8 |
| | | 8 | Ø12AIV(A600) | 5900 | 3 | 17,7 |
| | | 9 | Ø12AIV(A600) | 6300 | 4 | 25,2 |
| | | 10 | Ø12AIV(A600) | 3900 | 3 | 11,7 |
| | | 11 | Ø12AIV(A600) | 150 | 6 | 0,9 |
| |  D=484 mm | 12 | Ø8AI(A240) | 1640 | 34 | 55,8 |
| |  | 13 | Ø5BI | - | - | 718,7 |
| СЦ22.1-1.1 | | 1 | Ø12AV(A800) | 22200 | 12 | 266,4 |
| | | 2 | Ø12AV(A800) | 22180 | 2 | 44,4 |
| | | 3 | Ø12AV(A800) | 13900 | 2 | 27,8 |
| | | 4 | Ø12AV(A800) | 12700 | 2 | 25,4 |
| | | 5 | Ø12AV(A800) | 11350 | 4 | 45,4 |
| | | 6 | Ø12AV(A800) | 10300 | 3 | 30,9 |
| | | 7 | Ø12AV(A800) | 7700 | 4 | 30,8 |
| | | 8 | Ø12AV(A800) | 5900 | 3 | 17,7 |
| | | 9 | Ø12AV(A800) | 6300 | 4 | 25,2 |
| | | 10 | Ø12AV(A800) | 3900 | 3 | 11,7 |
| | | 11 | Ø12AV(A800) | 150 | 6 | 0,9 |
| СЦ22.1-1.1 |  D=484 mm | 12 | Ø8AI(A240) | 1640 | 34 | 55,8 |
| |  | 13 | Ø5BI | - | - | 528,0 |
| СЦ26.2-1.0 | | 1 | Ø12AIV(A600) | 26400 | 20 | 528,0 |
| | | 2 | Ø12AIV(A600) | 26380 | 16 | 158,3 |
| |  D=482 mm | | Ø8AI(A240) | 1645 | 32 | 47,7 |

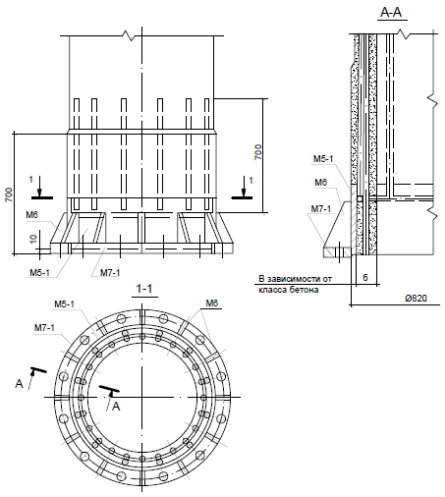
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| | | | | | | |
|---|---|---|---|---|---|---|
| |  | | Ø4BI | - | - | 572,4 |
| СЦ26.3-1.0 |  | 1 | Ø12IV(A600) | 26400 | 14 | 369,6 |
| | | 2 | Ø12IV(A600) | 26380 | 12 | 316,6 |
| | | 3 | Ø12IV(A600) | 6900 | 3 | 20,7 |
| | | 4 | Ø12IV(A600) | 4900 | 3 | 14,7 |
| |  D=482 mm | | Ø8AI(A240) | 1645 | 32 | 52,6 |
| |  | | Ø4BI | - | - | 572,4 |
| СЦ26.3-1.1 |  | 1 | Ø12AV(A800) | 26100 | 14 | 369,6 |
| | | 2 | Ø12AV(A800) | 26380 | 9 | 237,4 |
| |  D=482 mm | | Ø8AI(A240) | 1645 | 32 | 52,6 |
| |  | | Ø4BI | - | - | 572,4 |
| СЦ26.3-1.2 |  | 1 | Ø12VI(A1000) | 26400 | 14 | 369,6 |
| | | 2 | Ø12VI(A1000) | 26380 | 12 | 237,5 |
| | | 3 | Ø12VI(A1000) | 150 | 10 | 1,5 |
| |  D=482 mm | | Ø8AI(A240) | 1645 | 32 | 52,6 |
| |  | | Ø4BI | - | - | 464,0 |
| СЦ26.3-2.0 |  | 1 | Ø12IV(A600) | 26400 | 14 | 369,6 |
| | | 2 | Ø12IV(A600) | 26380 | 2 | 52,8 |
| | | 3 | Ø12IV(A600) | 16700 | 1 | 16,7 |
| | | 4 | Ø12IV(A600) | 14900 | 3 | 44,7 |
| | | 5 | Ø12IV(A600) | 13000 | 3 | 39,0 |
| | | 6 | Ø12IV(A600) | 11100 | 3 | 33,3 |
| | | 7 | Ø12IV(A600) | 9400 | 3 | 28,2 |
| | | 8 | Ø12IV(A600) | 7600 | 3 | 22,8 |
| | | 9 | Ø12IV(A600) | 150 | 6 | 0,9 |
| |  D=482 mm | | Ø8AI(A240) | 1640 | 36 | 59,0 |
| |  | | Ø5BI | - | - | 576,4 |
| СЦ26.3-2.0 |  | 1 | Ø12AV(A800) | 26400 | 14 | 369,6 |
| | | 2 | Ø12AV(A800) | 26380 | 2 | 52,8 |
| | | 3 | Ø12AV(A800) | 15700 | 4 | 62,8 |
| | | 4 | Ø12AV(A800) | 9400 | 3 | 28,2 |
| | | 5 | Ø12AV(A800) | 150 | 12 | 1,8 |

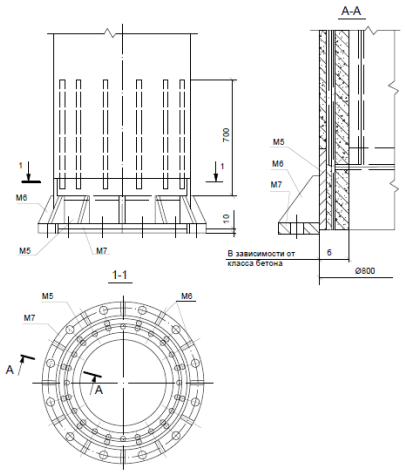
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERVICHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| |  D=482 mm | | Ø8AI(A240) | 1640 | 36 | 59,0 |
| |  | | Ø5BI | - | - | 576,4 |

*Izoh: Montaj xalqalarini tayyorlashda kontaktli payvandlashdan foydalanishga yo’l qo’yiladi.. Bunday xolda, ulangan uchlarning qoplama uzunligi kamida 10 mm bo‘lishi kerak.*

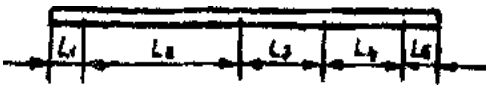



Trubali gardishli ustunlarning yon tomoni ГОСТ 10704 bo‘yicha СЦ20.3-1в va СЦ20.3-1н.
B.23-rasm




Rolikli trubadan yasalgan gardishli ustunlarning yon tomoni СЦ20.3-1в va СЦ20.3-1н
B.24-rasm

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B.4-jadval. Silindir ustunlarning uzunligi bo‘ylab spiral qadamning qiymati mm

| Ustun markasi | Spiralning diametri | Qism uzunligi bo‘yicha spiral qadam | | | | |
|---|---|---|---|---|---|---|
| | | $I_1$ | $I_2$ | $I_3$ | $I_4$ | $I_5$ |
| СЦ.26.1-1.0 | 4BI | 50/3500 | 80 / 22400 | 0 | | |
| СЦ.26.1-1.1 | | | | | | |
| СЦ.20.1-1.1 | | | | 100/15000 | | |
| СП.20.2-1.0 | | | | | | |
| СЦ.22.2-1.1 | | 50/500 | 30/4500 | | | |
| СЦ.20.2-1.2 | | | | | | |
| СЦ.20.2-2.1 | | | | | | 50/500 |
| СЦ20.3-1.0н | 5BI | | 30/4000 | | | 100/10500 |
| СЦ.20.3-1.1н | | 50/9600 | | 0 | | 100/10400 |
| СЦ20.3-1.0в | | 100/10500 | 0 | | 0 | 50/9500 |
| СЦ.20.3-1.1в | | 100/10400 | | | | 50/9600 |
| СЦ22.1-1.0 | | 50/3200 | 80/18500 | | | 50/500 |
| СЦ22.1-1.1 | | | | | | |
| СЦ.26.2-1.0 | 4BI | | | | | |
| СЦ-26.3-1.0 | | | | | | |
| СЦ.26.3-1.1 | | 80/26400 | | | | |
| СЦ.26.3-1.2 | | 100/26400 | 0 | | | 0 |
| СЦ.26.3-2.0 | 5BI | 50 / 500 | 80.25400 | | | 50/500 |
| СЦ26.3-2.1 | | | | | | |

B.5-jadval. O’rnatilgan mahsulotlarni joylashtirish

| Ustunlarni belgilanishi | Masofalar,mm (belgilar 1-rasmga mos keladi). | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | I0 | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 | I11 |
| СЦ6.1-1 | 200 | 1000 | 1500 | 16200 | - | - | - | - | - | - | 3200 | 300 |
| СЦ20.1-1 | 200 | 800 | 1500 | 1500 | 1500 | - | - | - | - | - | 4145 | 55 |
| СЦ20.2-1 | 300 | 1500 | 1500 | 1500 | 1500 | 1000 | 1000 | 1000 | - | - | 4145 | 55 |
| СК20.2-2 | 300 | 2200 | 500 | 1500 | 500x2 | 1000 | - | - | - | - | 4145 | 55 |
| СЦ20.3-1н | 10970 | - | - | - | - | - | - | - | - | - | 4645 | 55 |
| СЦ20.3-1в | 200 | 3300 | 5500 | - | - | - | - | - | - | - | - | - |
| СЦ22.1-1 | 150 | 2550 | 1500 | - | - | - | - | - | - | - | 3145 | 55 |
| СЦ26.3-1 | 390 | 750 | 14000 | - | - | - | - | - | - | - | 3300 | 300 |
| СЦ26.3-2 | 200 | 1300 | 1320 | 15200 | - | - | - | - | - | - | 3200 | 300 |

*Izoh:*

*1.O‘rnatilgan mahsulotlarni turli xil armaturalash bilan bir xil ustunlardan joylashtirish bir xil, shuning uchun oxirgi raqam ustunlar markalarida qoldiriladi.*

*2. СЦ26.2-1 ustunida murvatlar uchun o‘rnatilgan detalar mavjud emas.*

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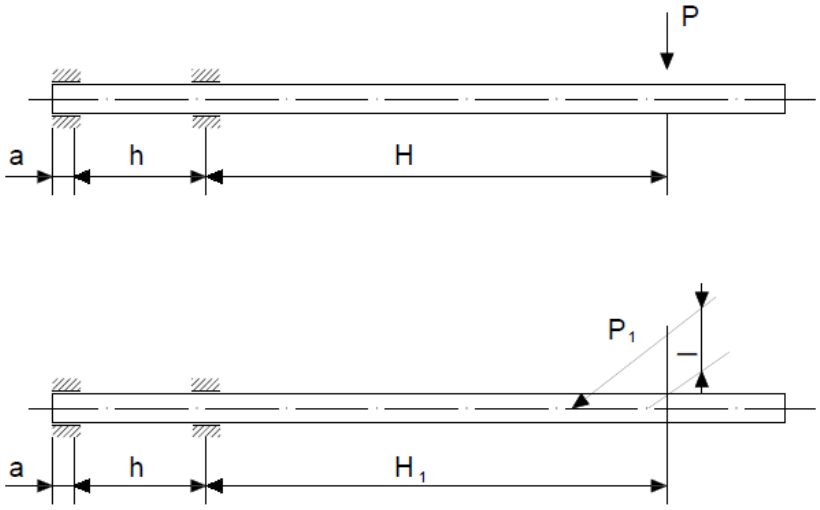
**B.1 Ustunlarni mustahkamligiga, qattiqligiga va yorilishga chidamliligiga sinash vaqtida tayanish va yuklash sxemalari**

B.1.1 Ustunlarni mustahkamligiga, qattiqligiga va yorilishga chidamliligiga sinash vaqtida tayanish va yuklash sxemalari B.1.1-chizmada ko’rsatilgan.

B.1.2.Sinash vaqtida ustunlarni tayanish va yuklash sxemalarining asosiy parametrlari B.1.1-jadvalda ko‘rsatilgan.

**Ustunlarni tayanish va yuklash sxemalari**

a) normal rejim sxemasi




b) favqulotda holat rejimi sxemasi

B.1.1-chizma

3.P-nazorat yuklarining qiymatlari B.2 bandda keltirilgan.

4. 25% hisoblangan P1 yuk, ushbu ilovaning B.1.1-jadvalida ko‘rsatilgan.

B.1.1-jadval

| Ustunlarning belgilanishi | O‘lchamlari, m | | | | | $P_1$ kN (tf) |
|---|---|---|---|---|---|---|
| | *H* | *h* | *a* | $H_1$ | *I* | |
| СЦ26.1-1 | 15 | 2,4 | 0,2 | 23,4 | 5,25 | 28,34 (2,89) |
| СЦ20.1-1 | | 3,3 | | 10,5 | 3,5 | 63,74 (6,5) |
| СЦ20.2-1 | | | | 14,7 | 3,5 | 63,7 (6,5) |
| СЦ20.2-2 | | | | | | |
| СЦ20.3-1н | | | | | | |
| СЦ20.3-1в | | | | | | |
| СЦ22.1-1 | 19,2 | 2,4 | | 15,0 | 4,8 | 12,75 (1,3) |
| СЦ 26.2-1 | 15 | 2,4 | | - | - | - |
| СЦ26.3-1 | | | | 23,07 | 4,2 | 18,34(1,87) |
| СЦ26.3-2 | | | | 21,4 | 8,0 | 13,83 (1,41) |

**B.2 Ustunlarni sinashda nazorat qilinadigan parametrlarning qiymati**

B.2.1. Nazorat yuklarining qiymatlari P ustunlarning mustahkamligi, qattiqligi va yoriqqa bardoshliligini tekshirishda, shuningdek nazorat kengligi va nazorat egilish qiymatlari yoriqlarini ochilishi B.2.1-jadvalda ko‘rsatilgan.

B.2.2 Ustunlar bosqichma-bosqich ortib boruvchi yuklar bilan yuklanadi. Har bir bosqichda kamida 10 daqiqa ta’sir qilish vaqti, nazorat yuklarida esa kamida 30 daqiqa ta’minlanadi.

Ustun egilishlarining nazorat qiymatlari kuch qo‘llash nuqtasi uchun berilgan. Egilish o‘qi, sinov paytida o‘lchanadi va qiymat bilan kamaytirilishi kerak, stendning deformatsiyasi bilan aniqlanadi.

Yoriqlar tayanch qismida va yoriq ochilish kengligini uzunligi 1 m dagi o‘rtacha qiymat tarzida o‘lchanadi.

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B.2.1-jadval

| Ustunlarning markasi | Betonning ruhsat etilgan mustahkamligi (R dan % ) | Parametrlar | Yuklama bosqichlari, % | | | |
|---|---|---|---|---|---|---|
| | | | 83,3 | 100 | 110 | 120 |
| СЦ26.1-1.0 | 75 | Yuklar, kN(tf) | 22,85 | 27,43 | 30,18 | 32,42 |
| | | Egilish, cm | (2,33) | (2,80) | (3,08) | (3,36) |
| | | Yoriq kengligi, mm | 49,97 | 66,13 | - | - |
| | | | 0,063 | - | - | - |
| | 85 | Yuklar, kN(tf) | 23,68 | 28,28 | 31,07 | 33,89 |
| | | Egilish, cm | (2,40) | (2,88) | (3,17) | (3,4) |
| | | Yoriq kengligi, mm | 49,97 | 66,22 | - | - |
| | | | 0,064 | - | - | - |
| | 100 | Yuklar, kN(tf) | 24,59(2,51) | 29,55(3,01) | 32,50(3,31) | 35,46(3,6 |
| | | Egilish, cm | 51,41 | 72,80 | - | - |
| | | Yoriq kengligi, mm | 0,061 | - | - | - |
| СЦ26.1-1.1 | 75 | Yuklar, kN(tf) | 21,40(2,18) | 25,69(2,62) | 28,26(2,38) | 30,82(3,1 |
| | | Egilish, cm | 41,64 | 60,52 | - | - |
| | | Yoriq kengligi, mm | 0,071 | - | - | - |
| | 85 | Yuklar, kN(tf) | 22,63(2,31) | 27,16(2,77) | 29,88(3,05) | 32,68(3 |
| | | Egilish, cm | 43,42 | 62,57 | - | - |
| | | Yoriq kengligi, mm | 0,076 | - | - | - |
| | 100 | Yuklar, kN(tf) | 24,22(2,47) | 29,13(2,97) | 32,07(3,27) | 34,91(3 |
| | | Egilish, cm | 47,14 | 68,63 | - | - |
| | | Yoriq kengligi, mm | 0,082 | - | - | - |
| СЦ20.1-1.1 | 75 | Yuklar, kN(tf) | 52,68(5,37) | 63,24(6,45) | 69,56(7,09) | 75,89(7 |
| | | Egilish, cm | 32,03 | 48,32 | - | - |
| | | Yoriq kengligi, mm | 0,116 | - | - | - |
| | 85 | Yuklar, kN(tf) | 55,03(5,61) | 66,06(6,74) | 72,71(7,41) | 79,32(8 |
| | | Egilish, cm | 34,19 | 51,81 | - | - |
| | | Yoriq kengligi, mm | 0,124 | - | - | - |
| | 100 | Yuklar, kN(tf) | 57,34(5,37) | 68,84(7,02) | 75,73(7,72) | 82,61(8 |
| | | Egilish, cm | 36,31 | 54,46 | - | - |
| | | Yoriq kengligi, mm | 0,123 | - | - | - |
| СЦ20.2-1.0 | 75 | Yuklar, kN(tf) | 64,96(6,62) | 77,98(7,95) | 85,73(8,75) | 93,57(9 |
| | | Egilish, cm | 33,88 | 47,16 | - | - |
| | | Yoriq kengligi, mm | 0,084 | - | - | - |
| | 85 | Yuklar, kN(tf) | 66,89(6,82) | 80,30(8,19) | 88,35(8,75) | 96,38(9 |
| | | Egilish, cm | 34,86 | 49,46 | - | - |
| | | Yoriq kengligi, mm | 0,087 | - | - | - |
| | 100 | Yuklar, kN(tf) | 69,17(7,05) | 83,08(8,47) | 91,37(9,32) | 99,67(10 |
| | | Egilish, cm | 34,86 | 52,59 | - | - |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | | Yoriq kengligi, mm | 0,087 | - | - | - |
| СЦ20.2-1.1 | 75 | Yuklar, kN(tf) | 63,47(6,47) | 76,19(7,77) | 83,81(8,55) | 96,38(9 |
| | | Egilish, cm | 33,66 | 48,43 | - | - |
| | | Yoriq kengligi, mm | 0,113 | - | - | - |
| СЦ20.2-1.1 | 100 | Yuklar, kN(tf) | 68,66(7,0) | 82,43(8,41) | 0,72(9,25) | 98,97(10,0 |
| | | Egilish, cm | 37,12 | 53,99 | - | - |
| | | Yoriq kengligi, mm | 0,117 | - | - | - |
| | 75 | Yuklar, kN(tf) | 61,09(6,23) | 73,34(7,48) | 80,67(8,23) | 88,00(8,9 |
| | | Egilish, cm | 34,58 | 48,90 | - | - |
| | | Yoriq kengligi, mm | 0,141 | - | - | - |
| СЦ20.2-1.2 | 85 | Yuklar, kN(tf) | 63,54(6,48) | 76,28(7,78) | 83,93(8,56) | 91,55(9,3 |
| | | Egilish, cm | 36,14 | 51,18 | - | - |
| | | Yoriq kengligi, mm | 0,147 | - | - | - |
| | 100 | Yuklar, kN(tf) | 66,63(6,79) | 80,02(8,16) | 88,02(8,98) | 96,03(9,7 |
| | | Egilish, cm | 38,04 | 54,51 | - | - |
| | | Yoriq kengligi, mm | 0,154 | - | - | - |
| СЦ20.2-2.1 | 75 | Yuklar, kN(tf) | 63,47(6,47) | 76,19(7,77) | 83,81(8,55) | 91,43(9,3 |
| | | Egilish, cm | 33,66 | 48,43 | - | - |
| | | Yoriq kengligi, mm | 0,113 | - | - | - |
| | 85 | Yuklar, kN(tf) | 65,80(6,71) | 78,99(8,05) | 86,84(8,86) | 94,73(9,6 |
| | | Egilish, cm | 35,19 | 51,18 | - | - |
| | | Yoriq kengligi, mm | 0,118 | - | - | - |
| | 100 | Yuklar, kN(tf) | 68,66(7,00) | 82,47(8,41) | 90,71(9,25) | 98,95(10,0 |
| | | Egilish, cm | 37,12 | 53,99 | - | - |
| | | Yoriq kengligi, mm | 0,117 | - | - | - |
| СЦ20.3-1.0н | 75 | Yuklar, kN(tf) | 61,26(6,25) | 73,54(7,50) | 80,89(8,25) | 88,24(9,0 |
| | | Egilish, cm | 31,76 | 45,10 | - | - |
| | | Yoriq kengligi, mm | 0,088 | - | - | - |
| | 85 | Yuklar, kN(tf) | 63,06(6,43) | 75,70(7,72) | 83,28(8,49) | 90,85(9,2 |
| | | Egilish, cm | 32,67 | 47,12 | - | - |
| | | Yoriq kengligi, mm | 0,090 | - | - | - |
| | 100 | Yuklar, kN(tf) | 65,21(67,65) | 78,26(7,98) | 86,10(8,78) | 93,91(9,5 |
| | | Egilish, cm | 33,50 | 49,27 | - | - |
| | | Yoriq kengligi, mm | 0,091 | - | - | - |
| СЦ20.3-1.1н | 75 | Yuklar, kN(tf) | 60,96(6,22) | 73,18(7,46) | 80,49(8,21) | 87,81(8,9 |
| | | Egilish, cm | 31,59 | 45,77 | - | - |
| | | Yoriq kengligi, mm | 0,108 | - | - | - |

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| | 85 | Yuklar, kN(tf) | 63,46(6,47) | 76,17(7,77) | 83,82(8,55) | 91,44(9,3 |
| | | Egilish, cm | 33,29 | 48,77 | - | - |
| | | Yoriq kengligi, mm | 0,115 | - | - | - |
| | 100 | Yuklar, kN(tf) | 66,10(6,74) | 79,36(8,09) | 87,27(8,9) | 95,20(9,7 |
| | | Egilish, cm | 35,77 | 52,66 | - | - |
| | | Yoriq kengligi, mm | 0,113 | - | - | - |
| СЦ20.3-1.0в | 75 | Yuklar, kN(tf) | 44,41(4,53) | 53,34(5,44) | 58,64(5,98) | 63,97(6,5 |
| | | Egilish, cm | 29,57 | 45,94 | - | - |
| | | Yoriq kengligi, mm | 0,124 | - | - | - |
| | 85 | Yuklar, kN(tf) | 45,60(4,65) | 54,74(5,58) | 60,19(6,14) | 65,67(6,7 |
| | | Egilish, cm | 30,44 | 47,53 | - | - |
| | | Yoriq kengligi, mm | 0,127 | - | - | - |
| | 100 | Yuklar, kN(tf) | 50,04(5,10) | 60,67(5,13) | 66,13(6,74) | 72,14(7,3 |
| | | Egilish, cm | 36,05 | 57,39 | - | - |
| | | Yoriq kengligi, mm | 0,142 | - | - | - |
| СЦ20.3-1.1в | 85 | Yuklar, kN(tf) | 4494(4,58) | 53,95(5,50) | 59,33(6,05) | 64,72(6,6 |
| | | Egilish, cm | 31,74 | 50,99 | - | - |
| | | Yoriq kengligi, mm | 0,187 | - | - | - |
| | 100 | Yuklar, kN(tf) | 50,05(5,10) | 60,11(6,13) | 66,13(6,74) | 72,14(7,3 |
| | | Egilish, cm | 39,91 | 65,07 | - | - |
| | | Yoriq kengligi, mm | 0,222 | - | - | - |

B.2.1-jadvalning davomi

| Ustunlarning markasi | Betonning ruhsat etilgan mustahkamligi (R dan % ) | Parametrlar | Yuklama bosqichlari, % | | | |
|---|---|---|---|---|---|---|
| | | | 83,3 | 100 | 110 | 120 |
| СЦ22.1-1.0 | 75 | Yuklar, kN(tf) | 18,33(1,87) | 22,01(2,24) | 24,21(2,47) | 26,41(2, |
| | | Egilish, cm | 85,37 | 111,53 | - | - |
| | | Yoriq kengligi, mm | 0,065 | - | - | - |
| | 85 | Yuklar, kN(tf) | 24,18(2,47) | 22,68(2,31) | 24,92(2,54) | 27,18(2, |
| | | Egilish, cm | 85,77 | 111,85 | - | - |
| | | Yoriq kengligi, mm | 0,067 | - | - | - |
| | 100 | Yuklar, kN(tf) | 19,73(2,01) | 23,69(2,42) | 26,11(2,66) | 28,48(2 |
| | | Egilish, cm | 88,97) | 124,32 | - | - |
| | | Yoriq kengligi, mm | 0,065 | - | - | - |
| | 75 | Yuklar, kN(tf) | 18,81(1,92) | 22,58(2,30) | 24,84(2,53) | 27,10(2, |
| | | Egilish, cm | 89,67 | 114,95 | - | - |
| | | Yoriq kengligi, mm | 0,081 | - | - | - |
| | | Yuklar, kN(tf) | 19,52(1,99) | 23,43(2,39 | 25,78(2,63) | 28,13(2, |
| | | Egilish, cm | 90,69 | 116,11 | - | - |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | 85 | Yoriq kengligi, mm | 0,084 | - | - | - |
| | 100 | Yuklar, kN(tf) | 20,53(2,09) | 24,65(2,51) | 27,08(2,76) | 29,54(3, |
| | | Egilish, cm | 95,04 | 124,59 | - | - |
| СЦ22.1-1.1 | | Yoriq kengligi, mm | 0,088 | - | - | - |
| | 75 | Yuklar, kN(tf) | 16,44(1,68) | 19,74(2,01) | 21,71(2,21) | 23,68(2, |
| | | Egilish, cm | 29,13 | 47,86 | - | - |
| | | Yoriq kengligi, mm | 0,058 | - | - | - |
| СЦ26.2-1.0 | 85 | Yuklar, kN(tf) | 17,21(1,75) | 20,66(2,11) | 22,66(2,32) | 24,83(2, |
| | | Egilish, cm | 30,14 | 49,31 | - | - |
| | | Yoriq kengligi, mm | 0,061 | - | - | - |
| | 100 | Yuklar, kN(tf) | 18,21(1,86) | 21,86(2,23) | 24,06(2,45) | 26,24(2, |
| | | Egilish, cm | 32,78 | 53,07 | - | - |
| | | Yoriq kengligi, mm | 0,062 | - | - | - |
| | 75 | Yuklar, kN(tf) | 18,77(1,91) | 22,53(2,30) | 24,78(2,53) | 27,04(2, |
| | | Egilish, cm | 44,67 | 64,89 | - | - |
| | | Yoriq kengligi, mm | 0,072 | - | - | - |
| СЦ26.3-1.0 | 85 | Yuklar, kN(tf) | 19,53(1,99) | 23,44(2,39) | 25,79(2,63) | 28,13(2, |
| | | Egilish, cm | 45,46 | 65,51 | - | - |
| | | Yoriq kengligi, mm | 0,074 | - | - | - |
| | 100 | Yuklar, kN(tf) | 20,43(2,08) | 24,53(2,50) | 26,97(2,75) | 29,42(3, |
| | | Egilish, cm | 47,42 | 69,69 | - | - |
| | | Yoriq kengligi, mm | 0,072 | - | - | - |
| | 75 | Yuklar, kN(tf) | 16,04(1,64) | 19,25(1,96 | 21,18(2,16) | 23,10(2, |
| | | Egilish, cm | 30,95 | 47,86 | - | - |
| | | Yoriq kengligi, mm | 0,072 | - | - | - |
| СЦ26.3-1.1 | 85 | Yuklar, kN(tf) | 17,04(1,74) | 20,45(2,09) | 22,50(2,29) | 24,54(2, |
| | | Egilish, cm | 33,16 | 53,07 | - | - |
| | | Yoriq kengligi, mm | 0,081 | - | - | - |
| | 100 | Yuklar, kN(tf) | 18,38(1,87) | 22,06(2,25) | 24,27(2,48) | 26,48(2, |
| | | Egilish, cm | 37,76 | 58,89 | - | - |
| | | Yoriq kengligi, mm | 0,089 | - | - | - |
| | 75 | Yuklar, kN(tf) | 15,64(1,60) | 18,78(1,92) | 20,66(2,11) | 22,54(2, |
| | | Egilish, cm | 22,80 | 33,76 | - | - |
| | | Yoriq kengligi, mm | 0,049 | - | - | - |
| СЦ26.3-1.2 | 85 | Yuklar, kN(tf) | 16,92(1,74) | 20,31(2,07) | 22,35(2,28) | 24,38(2, |
| | | Egilish, cm | 24,31 | 37,37 | - | - |
| | | Yoriq kengligi, mm | 0,053 | - | - | - |

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | | | |
|---|---|---|---|---|---|---|
| | 100 | Yuklar, kN(tf) | 18,66(1,87) | 22,40(2,28) | 24,60(2,51) | 26,83(2, |
| | | Egilish, cm | 27,75 | 42,96 | - | - |
| | | Yoriq kengligi, mm | 0,059 | - | - | - |

B.2.1-jadvalining davomi

| Ustunlarning markasi | Betonning ruhsat etilgan mustahkamligi (R dan % ) | Parametrlar | Yuklama bosqichlari, % | | | |
|---|---|---|---|---|---|---|
| | | | 83,3 | 100 | 110 | 120 |
| СЦ26.3-1.2 | 75 | Yuklar, kN(tf) | 15,64(1.60) | 18,7 8(1,92) | 20,66(2,11) | 22,54(2, |
| | | Egilish, cm | 22,80 | 33,76 | - | - |
| | | Yoriq kengligi | 0,049 | - | - | - |
| | 85 | Yuklar, kN(tf) | 16,92(1,74) | 20,31(2,07) | 22,35(2,28) | 24,38(2, |
| | | Egilish, cm | 24,31 | 37,37 | - | - |
| | | Yoriq kengligi | 0,053 | - | - | - |
| | 100 | Yuklar, kN(tf) | 18,66(1,87) | 22,40(2,28) | 24,60(2,51) | 26,83(2, |
| | | Egilish, cm | 27,75 | 42,96 | - | - |
| | | Yoriq kengligi | 0,059 | - | - | - |
| СЦ26.3-2.0 | 75 | Yuklar, kN(tf) | 18,77(1,91) | 22,53(2,30) | 24,78(2,53) | 27,04(2, |
| | | Egilish, cm | 44,67 | 64,89 | - | - |
| | | Yoriq kengligi | 0,072 | - | - | - |
| | 85 | Yuklar, kN(tf) | 19,53(1,99) | 23,44(2,39) | 25,79(2,63) | 28,13(2, |
| | | Egilish, cm | 45,46 | 65,51 | - | - |
| | | Yoriq kengligi | 0,074 | - | - | - |
| | 100 | Yuklar, kN(tf) | 20,43(2,08) | 24,53(2,50) | 26,97(2,75) | 29,42(3, |
| | | Egilish, cm | 47,42 | 69,69 | - | - |
| | | Yoriq kengligi | 0,072 | - | - | - |
| СЦ26.3-2.1 | 75 | Yuklar, kN(tf) | 16,04(1,64) | 19,25(1,96) | 21,18(2,16) | 23,10(2, |
| | | Egilish, cm | 30,95 | 47,86 | - | - |
| | | Yoriq kengligi | 0,072 | - | - | - |
| | 85 | Yuklar, kN(tf) | 17,04(1,74) | 20,45(2,09) | 22,50(2,29) | 24,54(2,5 |
| | | Egilish, cm | 33,16 | 53,07 | - | - |
| | | Yoriq kengligi | 0,081 | - | - | - |
| | 100 | Yuklar, kN(tf) | 18,38(1,87) | 22,06(2,25) | 24,27(2,48) | 26,48(2, |
| | | Egilish, cm | 37,76 | 58,89 | - | - |
| | | Yoriq kengligi | 0,089 | - | - | - |

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

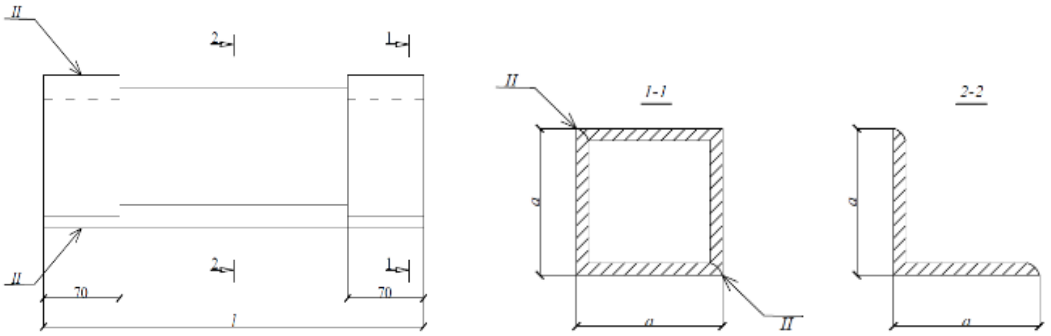
**C ilova**

(normativ)

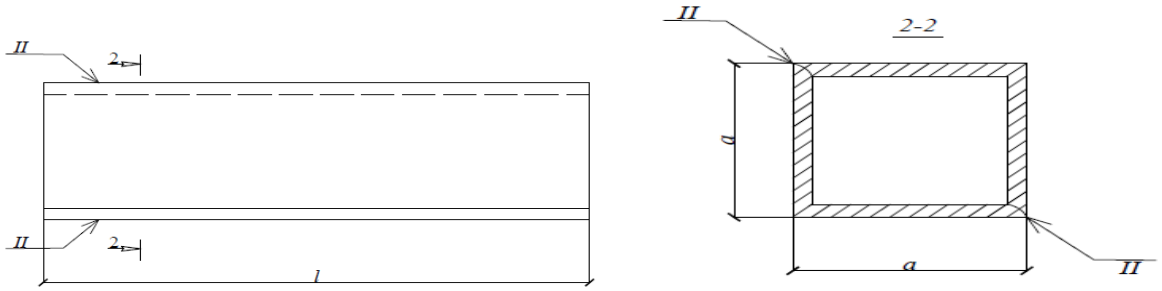
**Yuqori voltli elektr uzatish liniyalari tirgaklari uchun santrifugalangan temir-beton ustunlar. O‘rnatma buyumlar va tayanchlarining konstruksiyasi**

**O‘rnatma buyumlar**

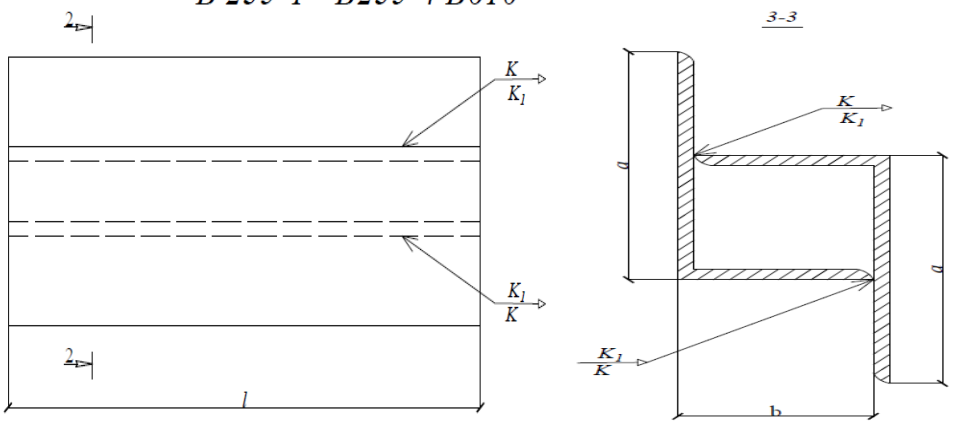
Б 203, Б 209 – Б 218, Б 220-238, Б 243, Б 244, Б 607 Б 609, Б 692, Б 693



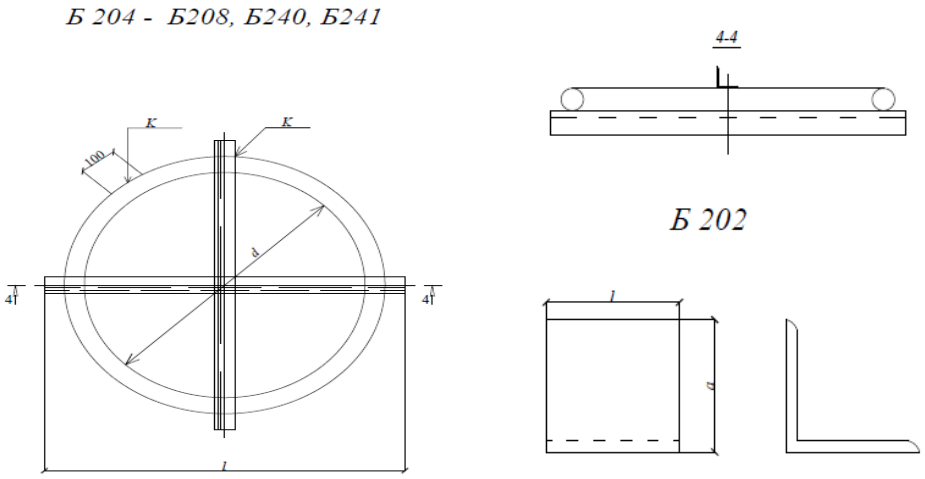

(faqat СК 26.2-1, СК 22.2-1, СК 26.3-1, СЦ 20.2-1, СЦ 20.2-2 ustunlar uchun)
Б 221- Б 230, Б 233, Б 236 – Б 239, Б 244, Б 609, Б 692, Б 603




Б 235-1 - Б235-4 Б610




STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




C.1-rasm

C.1-jadval. O‘rnatma buyumlar elementlarining tasniflagichi

| O’rnatma buyumlar | Kesim | 1, mm | a/b, mm | Massa, kg |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| Б 202 | Burchak 50x5 | 50 | 50 | 0,2 |
| Б 204 | Burchak 36x4 | 365 | - | 2,4 |
| | Ø12Al(240) | 1070 | | |
| Б 205 | Burchak 36x4 | 500 | - | 3,3 |
| | Ø12Al(240) | 1490 | | |
| Б 206 | Burchak 36x4 | 450 | - | 3,0 |
| | Ø12Al(240) | 1330 | | |
| Б 207 | Burchak 36x4 | 515 | - | 4,0 |
| | Ø12Al(240) | 1740 | | |
| Б 208 | Burchak 36x4 | 520 | - | 3,6 |
| | Ø12Al(240) | 1635 | | |
| Б 209 | Burchak 36x4 | 320 | 40 | 1,4 |
| Б 210 | | 330 | | 1,4 |
| Б 211 | | 340 | | 1,5 |
| Б 212 | | 350 | | 1,5 |
| Б 213 | | 360 | | 1,6 |
| Б 214 | | 370 | | 1,6 |
| Б 215 | | 380 | | 1,7 |
| Б 216 | | 390 | | 1,7 |
| Б 217 | | 400 | | 1,8 |
| Б 218 | | 415 | | 1,8 |
| Б 220 | Burchak 36x4 | 425 | 40 | 1,9 |
| Б 221 | | 435 | | 1,9 |
| Б 222 | | 445 | | 2,0 |
| Б 223 | | 450 | | 2,0 |

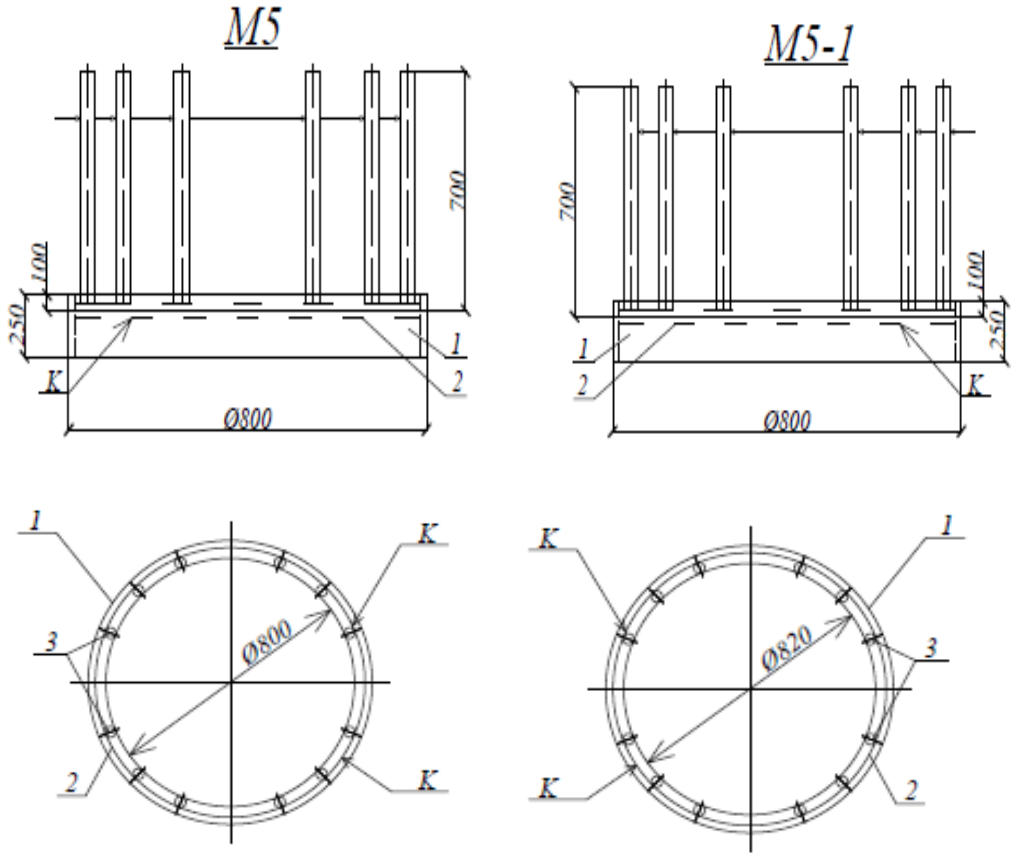
STANDARTLAR INSTITUTI #34LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

| | | | | |
|---|---|---|---|---|
| Б 224 | | 460 | | 2,1 |
| Б 225 | | 470 | | 2,1 |
| Б 226 | | 480 | | 2,2 |
| Б 227 | Burchak 50x5 | 400 | 55 | 3,1 |
| Б 228 | | 405 | | 3,2 |
| Б 229 | | 425 | | 3,3 |
| Б 230 | | 445 | | 3,4 |
| Б 231 | | 460 | | 3,5 |
| Б 232 | | 470 | | 3,6 |
| Б 233 | | 575 | | 4,4 |
| Б 234 | | 555 | | 4,2 |
| Б 235 | Burchak 160x10 | 555 | 160/70 | 19,8 |
| Б 235-1 | | 465 | | 16,6 |
| Б 235-2 | | 480 | | 17,1 |
| | | | | |
| | | | | |
| Б 235-3 | | 500 | | 17,8 |
| Б 235-4 | | 520 | | 18,6 |
| Б 236 | Burchak 36x4 | 495 | 40 | 2,2 |
| Б 237 | | 505 | | 2,2 |
| Б 238 | Burchak 50x5 | 510 | 55 | 4,0 |
| Б 239 | | 415 | | 3,2 |
| Б 240 | Burchak 36x4 | 450 | - | 3,3 |
| | | 1390 | | |
| Б 241 | Burchak 36x4 | 570 | - | 4,0 |
| | | 1780 | | |
| Б 243 | Burchak 50x5 | 480 | 55 | 3,7 |
| Б 244 | | 430 | | 3,2 |
| Б 607 | | 625 | | 4,8 |
| Б 608 | | 610 | | 4,6 |
| Б 609 | | 590 | | 4,4 |
| Б 610 | Burchak 160x10 | 580 | 160/70 | 20,8 |
| Б 691 | Burchak 50x5 Ø12Al(240) | 760 | - | 7,8 |
| | | 2350 | | |
| Б 692 | Burchak 63x5 | 785 | 68 | 7,6 |
| Б 693 | Burchak 50x5 | 785 | 55 | 6,0 |
| Izoh: O‘rnatma buyumlarning, ularga qo‘yiladigan barcha talablarga javob beradigan boshqa konstruksiyalardan foydalanish ham mumkin. | | | | |

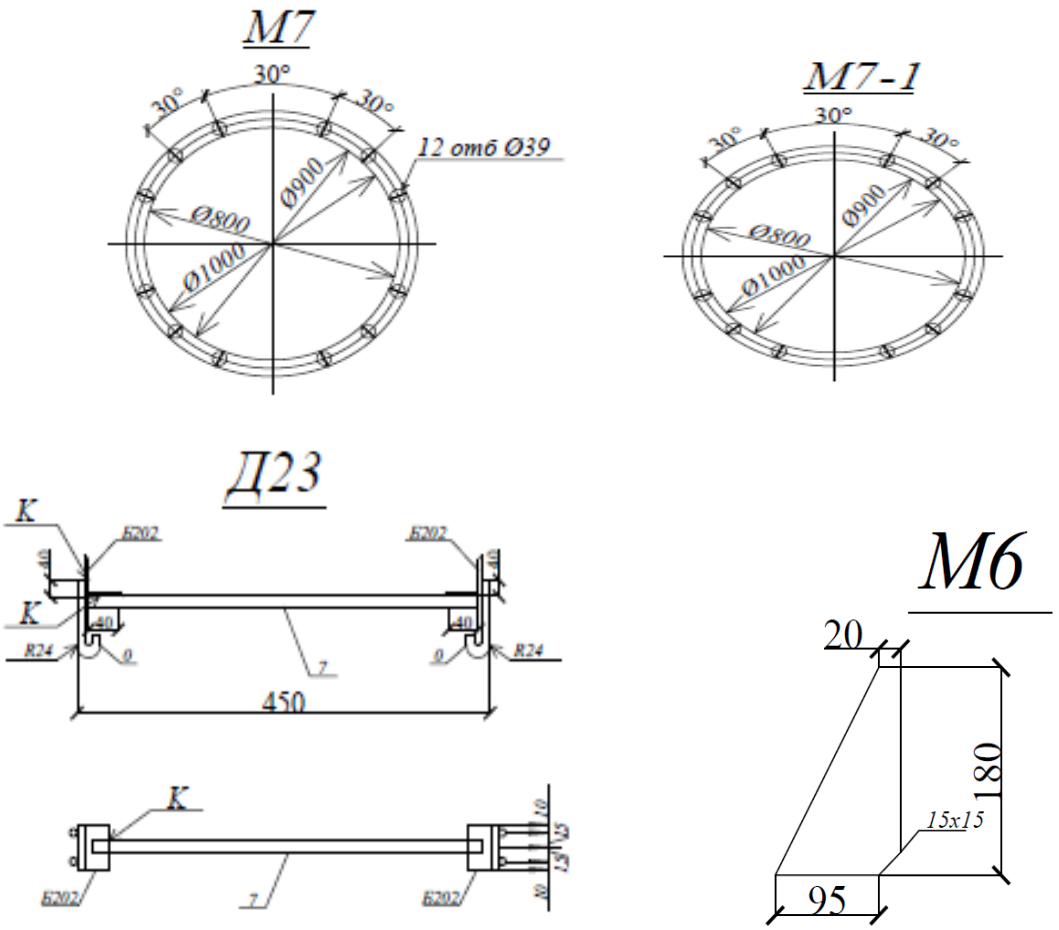
STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

C.2-jadval. O‘rnatma buyumlar elementlarning tasniflagichi

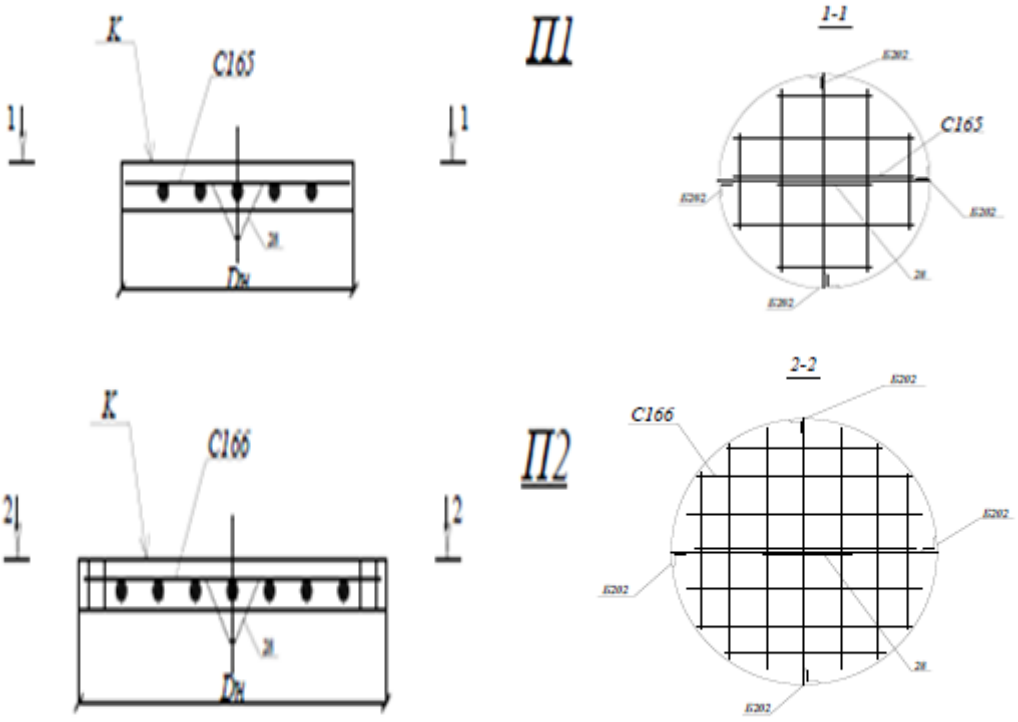
| Tamg’a | Pozitsiya sanasi | Eskiz | Kesim | Uzunlik, mm | Pozitsiyalar soni | Massa, kg | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Bitta buyumniki | Barcha materiallarniki | Markasi |
| M5 | 1 | | -250x10 | 2480 | 1 | 0,8 | 49 | 63 |
| | 2 | ——— | ØAIII (A400) | 2405 | 1 | 52,8 | 3 | |
| | 3 | ——— | ØAV (A800) | | 12 | 56,7 | 10 | |
| | | Qo’yilgan detal | | | | | 1 | |
| M5-1 | 4 | | Quvur $D_H$=820x10 | 250 | 1 | 0,1 | 50 | 64 |
| | 3 | ——— | ØAV (A800) | 700 | 12 | 0,2 | 10 | |
| | 5 | ——— | ØAIII (A400) | 2468 | 1 | 3.0 | 3 | |
| | | Qo’yilgan metall | | | | | 1 | |
| M6 | | | -95x10 | 180 | 1 | 0.8 | 1 | 1 |
| M7 | | | -98x25 | 1000 | 1 | 52.8 | 53 | 53 |
| M7-1 | | | -100x25 | 1020 | 1 | 56.7 | 57 | 57 |
| | | | | | | | | |
| Д23 | 6 | | ØAIII (A400) | 250 | 4 | 0.1 | 0.4 | 1 |
| (ПК-1) | | ——— | ØAIII (A400) | 430 | 1 | 0.2 | 0.2 | |



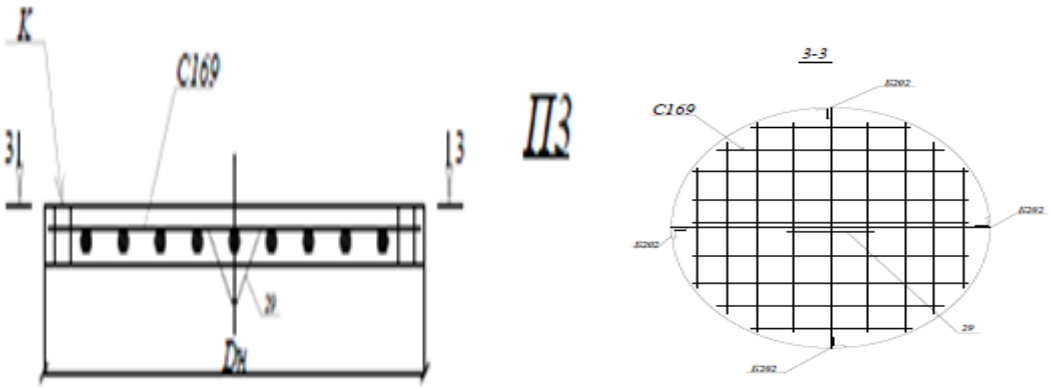

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ



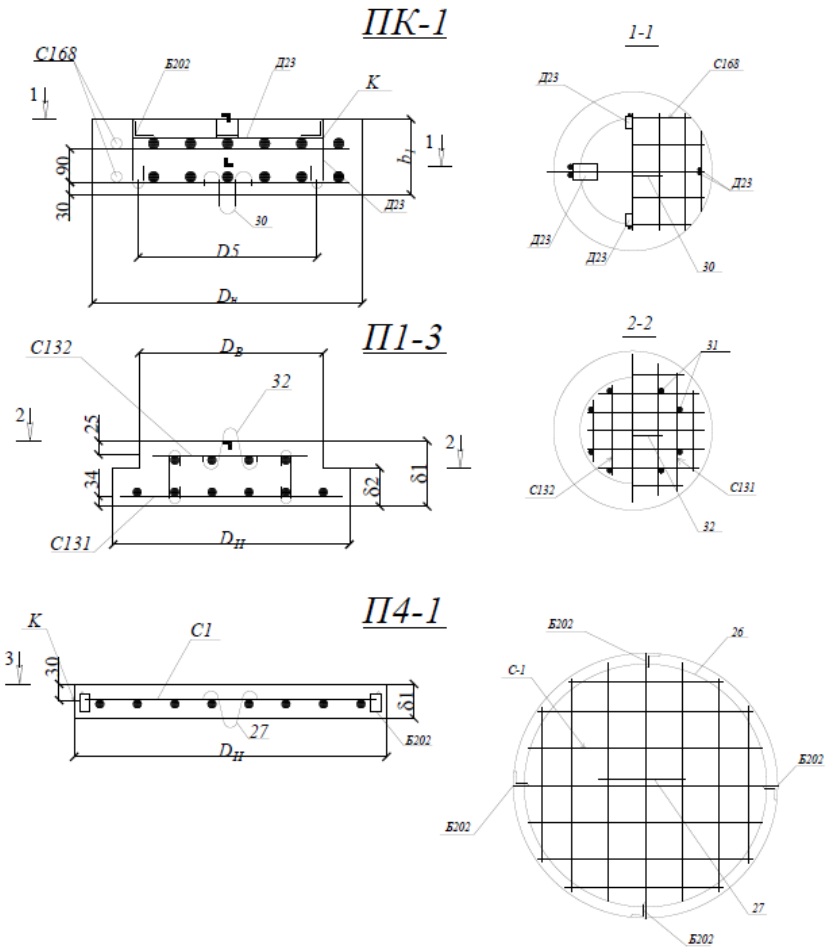

С.2-rasm
П1, П2 va П3 markali tayanchlar




STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ




С.3-rasm
ПК-1, П1-3, П4-1 markali tayanchlar



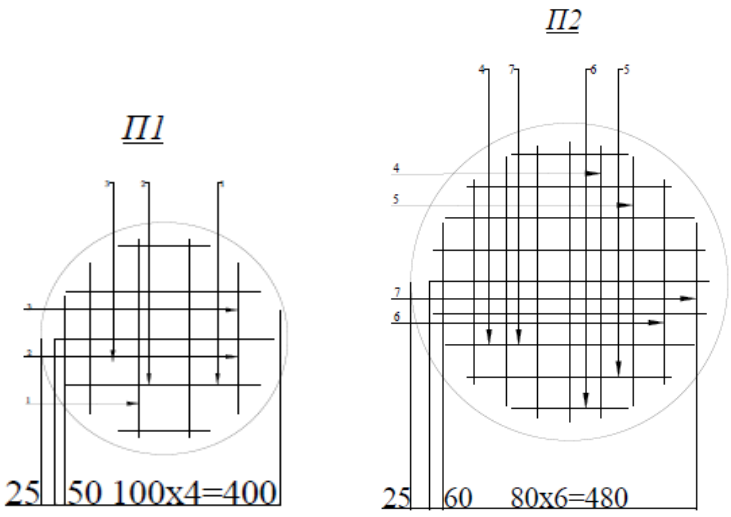

С.4-rasm

STANDARTLAR INSTITUTI #84LDMP9K2B - 09.10.2025 "TURON STANDART SERTIFIKAT" MCHJ

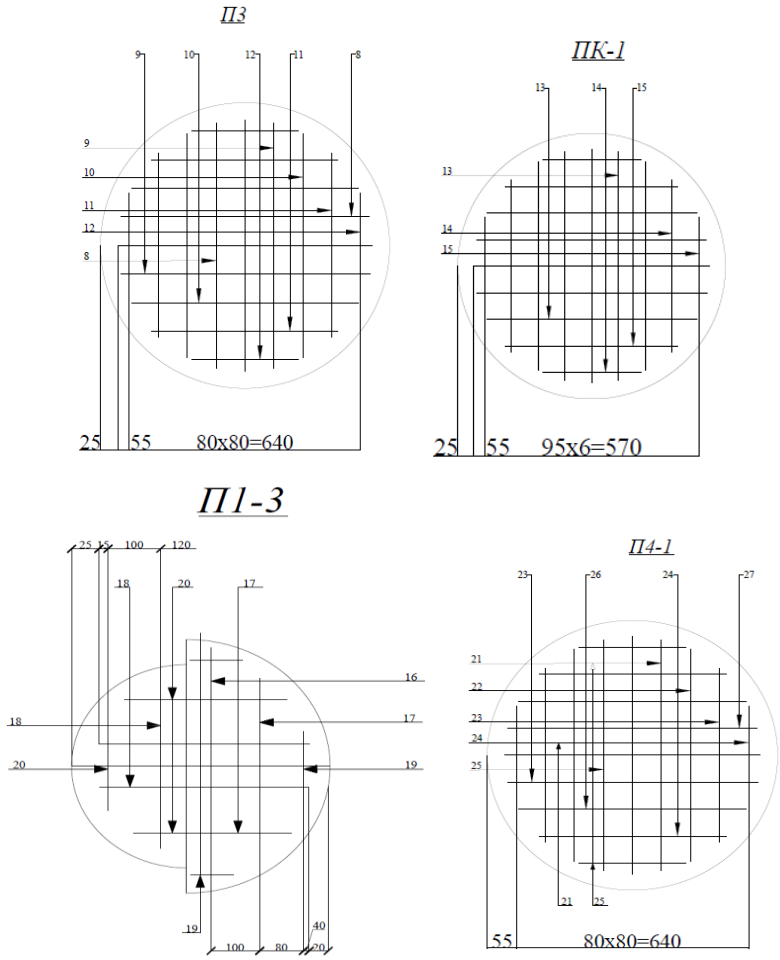
C.3-jadval. Tayanchlarning material sig‘imdorligi ko‘rsatkichlari

| Tayanch tamg’asi | Geometrik o‘lchovlar, mm | | | | Materiallar sarfi | | | | | | Ustunlarda qo’llash imkoniyati |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Beton | | Armatura | | O‘rnatma buyumlar, kg | Umumiy sarfi | |
| | $D_H$ | $D_B$ | $\delta_1$ | $\delta 2$ | Sinfi | Hajmi, $m^3$ | Diametri, mm | Massa, kg | | | |
| П1 | 560 | - | 50 | - | B25 | 0,012 | Ø8Al(A240)/ Ø8Al(A240) | 2,0/0,3 | 1 | 3,3 | СЦ22.1-1 |
| П2 | 650 | - | 50 | - | | | Ø8Al(A240)/ Ø8Al(A240) | 3,0/0,3 | | 4,3 | СК26.1-1÷СК26.13; СК26.1-5;СК26.1-6; СК26.2-1; СК22.1-1÷СК22.13; СК22.2-1;СК22.3-1; |
| П3 | 800 | - | 60 | - | | 0,03 | Ø8Al(A240)/ Ø8Al(A240) | 5,0/0,3 | | 6,3 | СЦ20.1-1;СЦ220.2-1 СЦ20.2-2 |
| ПК-1 | 650 | 440 | 200 | 150 | | 0,06 | Ø8Alll(A240)/ Ø8Al(A240) | 4,0/0,3 | 3 | 7,3 | СК26.1-4; |
| П1-3 | 600 | 420 | 180 | 80 | | 0,038 | Ø8Al(A240)/ Ø8Al(A240) | 4,0/1,0 | | 5,0 | СЦ26.1-1;СЦ26.3-1 СЦ26.3-2 |
| П4-1 | 800 | - | 100 | - | | 0,05 | Ø8Al(A240)/ Ø8Al(A240) | 5,3/0,2 | 1 | 6,5 | СЦ20.3-1н |
| Izoh: Suratda tayanchiqlar uchun, mahrajda esa, yig‘uv halqalari uchun ma’lumotlar keltirilgan. Po‘lat tamg‘asi Ст3пс. | | | | | | | | | | | |

Tayanchlarni armaturalash

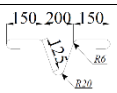
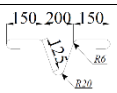
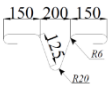



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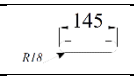
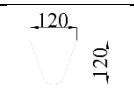
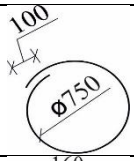
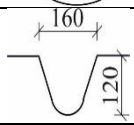



C.5-rasm

C.4-jadval. Armatura elementlarining tayanchlarining tasniflagichi

| Tayanch belgisi | Armatura-element | Pozitsiya raqami | Diametr, mm | Uzunlik, mm | Pozitsiyalar miqdori | Umumiy uzunlik, m |
|---|---|---|---|---|---|---|
| П1 | С165 | 1 | Ø8AI(A240) | 500 | 2 | 1,0 |
| | | 2 | Ø8AI(A240) | 460 | 4 | 1,8 |
| | | 3 | Ø8AI(A240) | 310 | 4 | 1,2 |
| |  | 28 | Ø8AI(A240) | 800 | 1 | 0,8 |
| П2 | С166 | 4 | Ø8AI(A240) | 600 | 2 | 1,2 |
| | | 5 | Ø8AI(A240) | 580 | 4 | 2,3 |
| | | 6 | Ø8AI(A240) | 520 | 4 | 2,1 |
| | | 7 | Ø8AI(A240) | 380 | 4 | 1,5 |
| |  | 28 | Ø8AI(A240) | 800 | 1 | 0,8 |
| | С169 | 8 | Ø8AI(A240) | 750 | 2 | 1,5 |
| | | 9 | Ø8AI(A240) | 730 | 4 | 2,9 |
| | | 10 | Ø8AI(A240) | 670 | 4 | 2,7 |
| | | 11 | Ø8AI(A240) | 570 | 4 | 2,3 |
| | | 12 | Ø8AI(A240) | 380 | 4 | 1,5 |
| П3 |  | 29 | Ø8AI(A240) | 800 | 1 | 0,8 |
| ПК-1 | С168 (2шт) | 13 | Ø8AI(A240) | 600 | 12 | 7,2 |
| | | 14 | Ø8AI(A240) | 410 | 8 | 3,3 |
| | | 15 | Ø8AI(A240) | 220 | 8 | 1,8 |
| |  | 30 | Ø8AI(A240) | 770 | 1 | 0,8 |
| | С131 | 16 | Ø8AI(A240) | 560 | 4 | 2,2 |
| | | 17 | Ø8AI(A240) | 440 | 4 | 1,8 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | | 19 | Ø8AI(A240) | 320 | 4 | 1,3 |
| П3 | С132 | 18<br>20 | Ø8AI(A240)<br>Ø8AI(A240) | 370<br>220 | 4<br>4 | 1,5<br>0,9 |
| |  | 31 | Ø8AI(A240) | 220 | 8 | 1,8 |
| |  | 32 | Ø8AI(A240) | 350 | 1 | 0,4 |
| | С1 | 21 | Ø8AI(A240) | 750 | 2 | 1,5 |
| | | 22 | Ø8AI(A240) | 730 | 4 | 2,9 |
| | | 23 | Ø8AI(A240) | 670 | 4 | 2,7 |
| | | 24 | Ø8AI(A240) | 570 | 4 | 2,3 |
| | | 25 | Ø8AI(A240) | 380 | 4 | 1,5 |
| П4-1 |  | 26 | Ø8AI(A240) | 2450 | 1 | 2,5 |
| |  | 27 | Ø8AI(A240) | 390 | 1 | 0,4 |

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SMT 91.080.40

**Muhim so‘zlar:** ustun, konussimon, silindir, temir-beton, sentrifugalangan, tutash ulanmalar, montaj xalqalari, armatura, o’rnatma buyumlar va tayanchlar

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