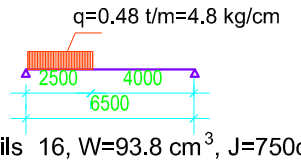
Rāmji R1...R14. Aprēķinu shēmas.

R1

AHU13
2300kg

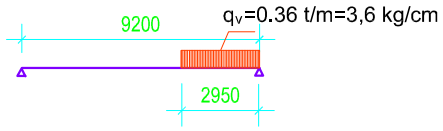


U- profils 16, W=93.8 cm^3, J=750cm^4

Mmax=
$(0.48x2.5^2/8x6.5^2)(2x6.5-2.5)^2=0.99$ tm(x10^{5}kgcm)
W=0,990x10^5/2350=42cm <93.80 cm4
[f]=650/150=4,3 cm
fmax=0,99x10^{5}x650^2/10x2.1x10^{6}x750x1.05=2,5 cm< [f]
EJ

R5

AHU10
m=1600kg

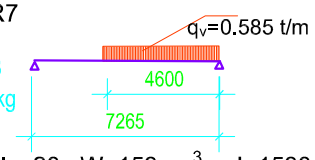


U- profils 20, W=153cm^3, J=1530cm^4

Mmax=
$(0.36x2,95^2/8x9,2^2)(2x9,2-2.95)^2=1.20$ tm(x10^{5}kgcm)
W=1.20x10^5/2350=51cm^3 <153 cm^3
[f]=920/150=6cm
fmax=1,20x10^{5}x920^2/10x2.1x10^{6}x1530x1,1=2,87 cm< [f]
EJ

R7

AHU8
m=2400kg

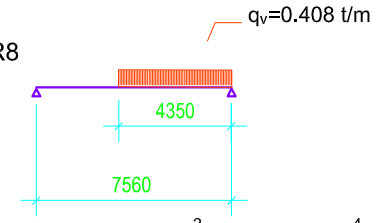


U- profils 20, W=153cm^3, J=1530cm^4

Mmax=$(0.585x4,6^2/8x7,265^2)(2x7,265-4.6)^2=2,86$ tm(x10^{5}kgcm)
W=2,86x10^5/2350=122 cm^3 <153 cm^3
[f]=726,5/150=4,84cm
fmax=2,9x10^{5}x726,5^2/10x2.1x10^{6}x1530x1.1=4,3 cm< [f]
EJ

R8

AHU6
m=1600kg

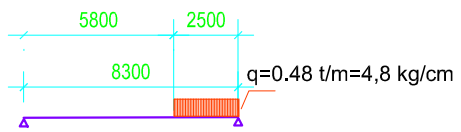


U- profils 20, W=153 cm^3, J=1530 cm^4

Mmax=
$(0.408x4,35^2/8x7,56^2)(2x7,56-4.35)^2=1.96$ tm(x10^{5}kgcm)
W=1.96x10^5/2350=83cm < 153 cm4
[f]=756/150=5,04 cm
fmax=[1.96 x10^{5}x756x756)/10x2.1x10^{6}x1530x1.1]=3,16cm< [f]
EJ

R2

AHU12
m=2300kg

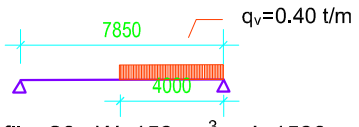


U- profils 20, W=153cm^3, J=1530cm^4

Mmax=
$(0.48x2.5^2/8x8.3^2)(2x8.3-2.5)^2=1.08$ tm(x10^{5}kgcm)
W=1.08x10^5/2350=46,0cm <153 cm4
[f]=830/150=5,53cm
fmax=1,08x10^{5}x830^2/10x2.1x10^{6}x1530x1.05=2,2 cm< [f]
EJ

R6

AHU9
m=1400kg

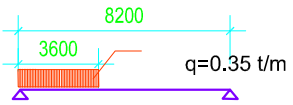


U- profils 20, W=153cm^3, J=1530cm^4

Mmax=
$(0.40x4,0^2/8x7,85^2)(2x7,85-4)^2=1.78$ tm(x10^{5}kgcm)
W=1.78x10^5/2350=76 cm <153 cm4
[f]=785/150=5,2cm
fmax=1,78x10^{5}x785^2/10x2.1x10^{6}x1530x1.1=3.1 cm< [f]
EJ

R10

AHU2
m=2300kg

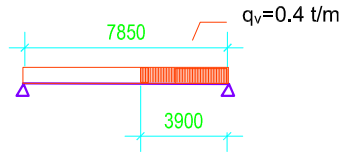


U- profils 20, W=153cm3, J=1530cm4

Mmax=
$(0.35x3.6^2/8x8.2^2)(2x8.2 - 3.6)^2=1,38$ tm(x10^{5}kgcm)
W=1,38x10^5/2350=59cm <153 cm4
[f]=820/150=5,4 cm
fmax=[1,38x10^{5}x820x820)/10x2.1x10^{6}x1530X1,05]=2,75cm< [f]
EJ

R9

AHU1
m=1400kg



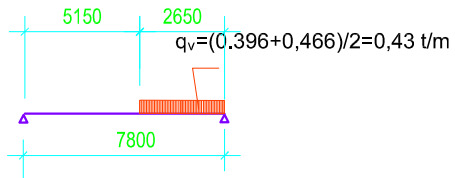
U- profils 20, W=153 cm^3, J=1530 cm^4

Mmax=
$[0.4x3,9^2/8x7,85^2](2x7,85-3,9)^2=1.72$ tm(x10^{5}kgcm)

W=1.72x10^5/2350=73 cm^3 <153 cm^3
[f]=785/150=5,2cm
fmax=[1.72x10^{5}x785x785)/10x2.1x10^{6}x1530x1.1]=3,0 cm< [f]
EJ

R3

AHU14
m=950kg

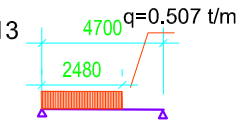


U- profils 16, W=93.8 cm^3, J=750cm^4

Mmax=
$(0.43x2.65^2/8x7,8^2)(2x7,8-2.65)^2=1,04$tm(x10^{5}kgcm)
W=1,04x10^5/2350=44cm <93,8 cm4
[f]=780/150=5,2cm
fmax=1,04x10^{5}x780^2/10x2.1x10^{6}x750x1.1=3,65 cm< [f]
EJ

R13

AHU4
m=2300kg



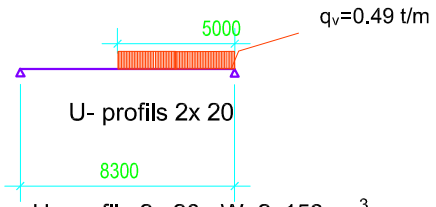
U- profils 16, W=93.8 cm^3, J=750cm^4

Mmax=
$(0.51x2,48^2/8x4,7^2)(2x4,7-2,48)^2=0,865$tm(x10^{5}kgcm)
W=0,865x10^5/2350=37cm <93,84
[f]=470/150=3,1cm

fmax=0,865x10^{5}x470^2/10x2.1x10^{6}x750x1.1=1,1 cm< [f]
EJ

R11

AHU3
m=2300kg



U- profils 2x 20

U- profils 2x 20, W=2x153cm^3,
J=2x1530cm^4

Mmax=
$(0.49x5,0^2/8x8.3^2)(2x8.3 - 5,0)^2=2,99$ tm(x10^{5}kgcm)
W=2,99x10^5/2350=127cm <153x2 cm4
[f]=830/150=5,53cm
fmax=[2.99x10^{5}x830x830)/10x2.1x10^{6}x1530x2x1.1]=2,90 cm< [f]
EJ

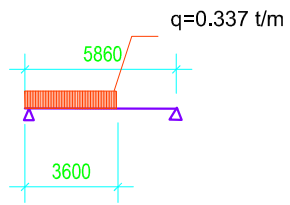
Slodžu aprēķinu sk. BK-15

U- profils 16, W=93.8 cm^3, J=750cm^4
U- profils 20, W=153 cm^3, J=1530cm^4

E = 2.1x10^6 kg/cm^2, S235,
2350kg/cm^2

R4

AHU11
2300kg



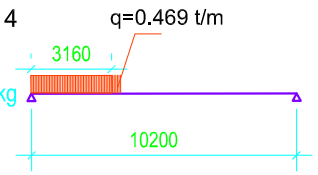
U- profils 16, W=93.8 cm^3, J=750cm^4

Mmax=
$(0.34x3.60^2/8x5,86^2)(2x5,86-3.6)^2=1,06$ tm(x10^{5}kgcm)
W=1.06x10^5/2350=45cm <93,8 cm4
[f]=586/150=3,9cm

fmax=1,06x10^{5}x586^2/10x2.1x10^{6}x750x1.05=2,2 cm< [f]
EJ

R14

AHU7
m=1350kg



U- profils 20, W=153cm^3, J=1530cm^4

Mmax=
$(0.469x3,16^2/8x10,2^2)(2x10,2-3,16)^2=1,67$ tm(x10^{5}kgcm)
W=1.67x10^5/2350=71,2cm <153 cm4
[f]=1020/150=6,8cm
fmax=1,67x10^{5}x1020^2/10x2.1x10^{6}x1530x1.1=4,9 cm< [f]
EJ

RĀMJU IZMĒRUS PRECIZĒT PĒC
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Jelgavas pils vēdināšanas sistēmas atjaunošanas un pārbūves būvprojekta izstrāde Lielajā ielā 2, Jelgavā, LV - 3001

LAPAS NOSAUKUMS:
Rāmji R1...R14. Aprēķinu shēmas.

ARHĪVA NR.: LV-48-1

PASŪTĪJUMS: LV-48

MARKA: BK

STADIJA	LAPA	LAPAS
BP	BK-16	

MĒROGS: