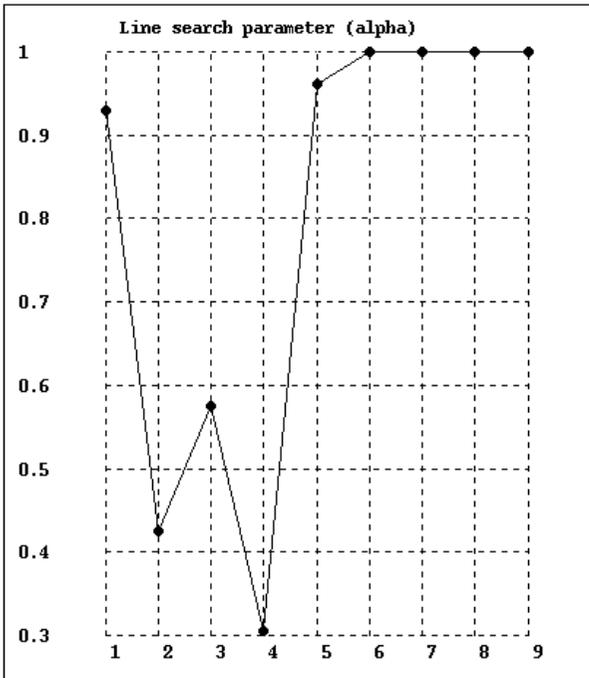


Nº de equações = 2254

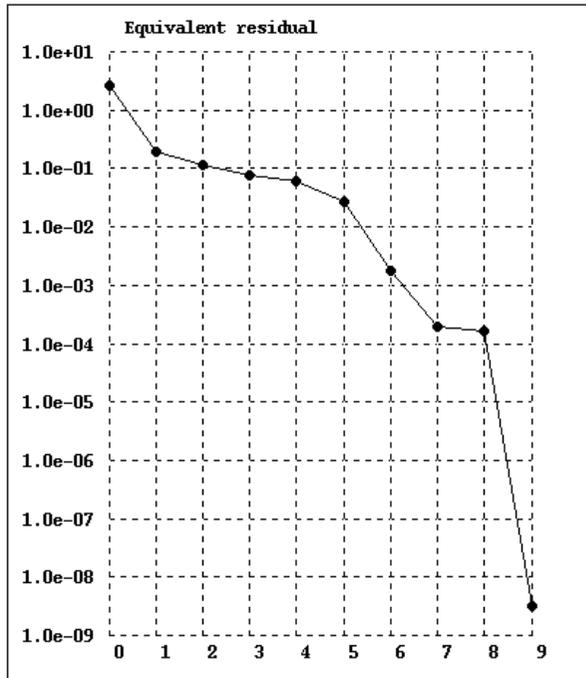
cap5s

>>> NEWTOP <<<

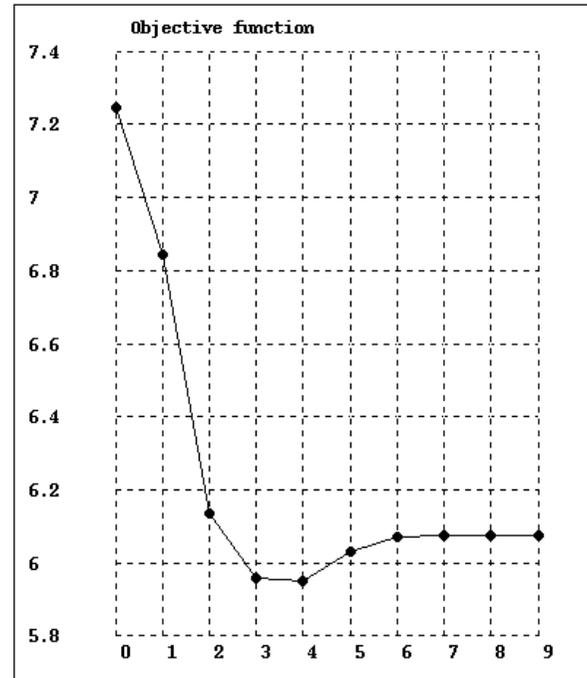
Iteration n. 9



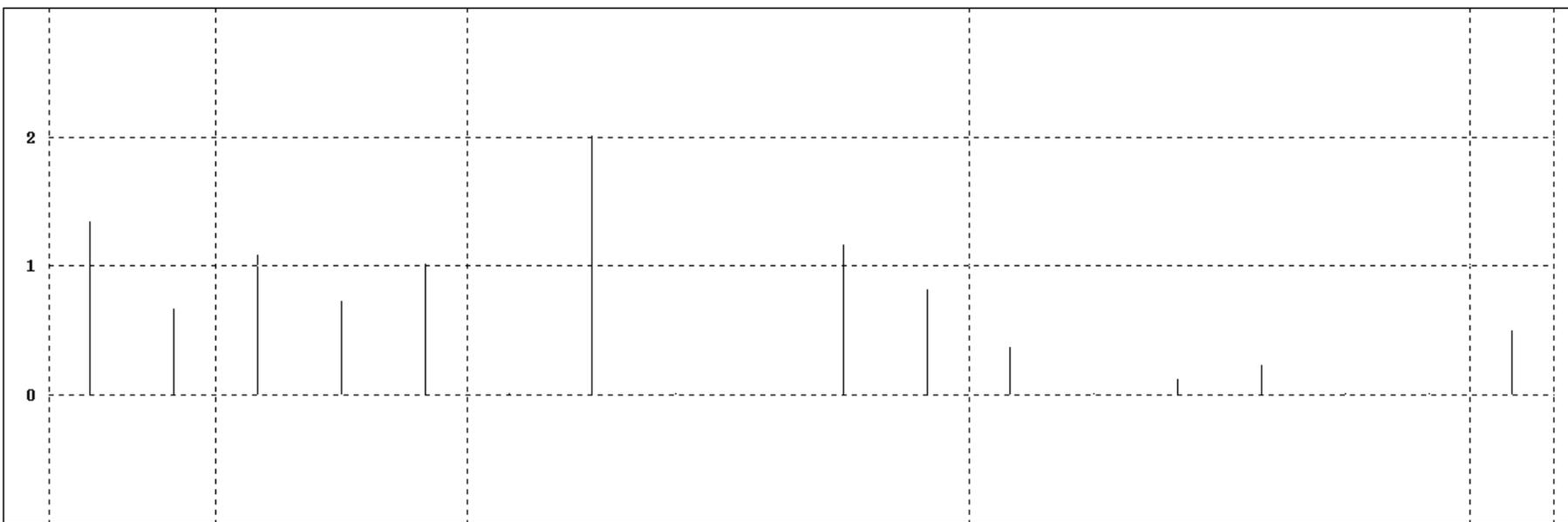
Current value = 1.0000000000



Current value = 3.2724548626e-09 < TOL .



Current value = 6.0740213138e+00



<- 2 ->

<- 3 ->

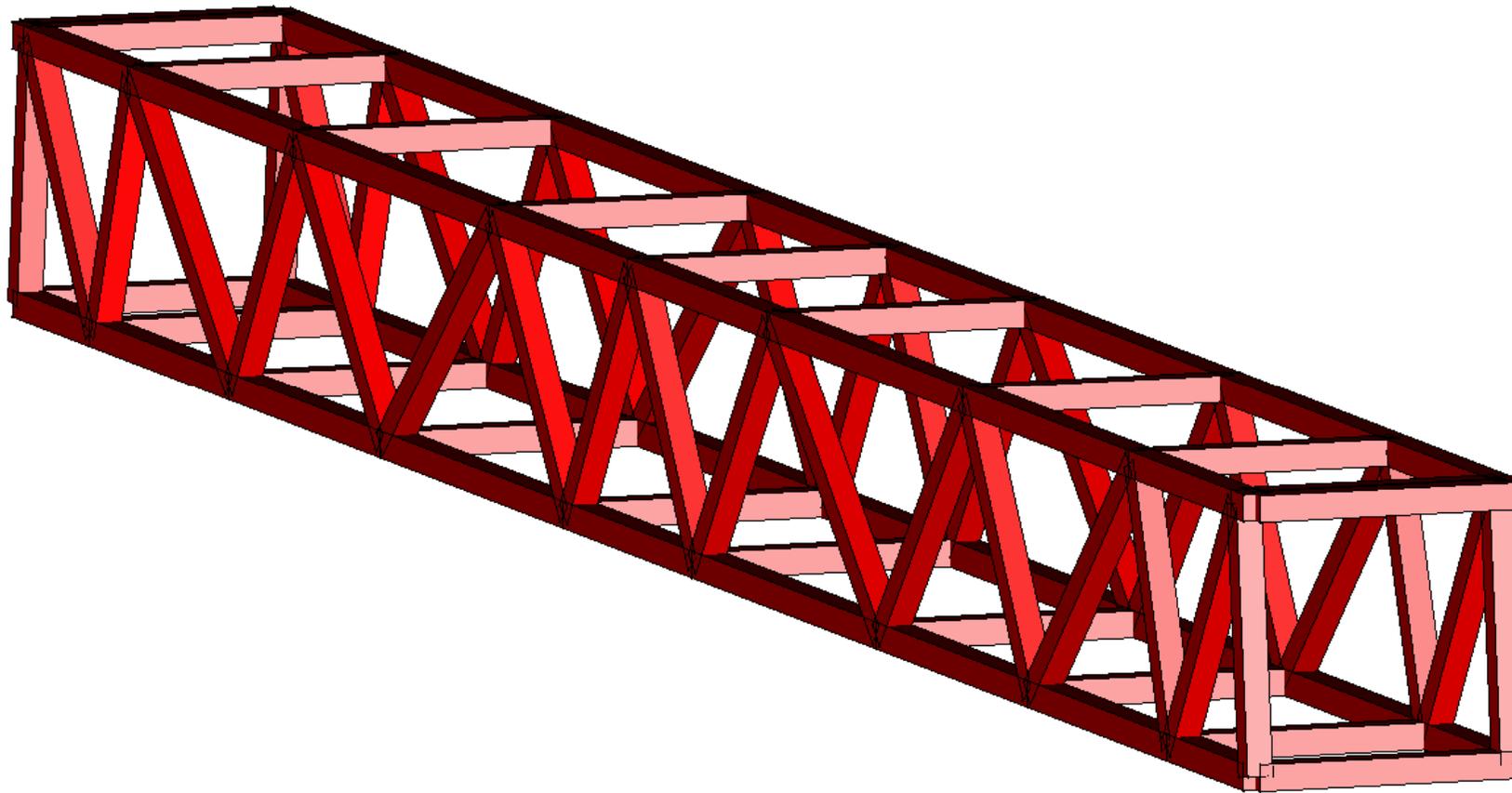
<- 6 ->

<- 6 ->

<- 1 ->

Current values of the scaled variables

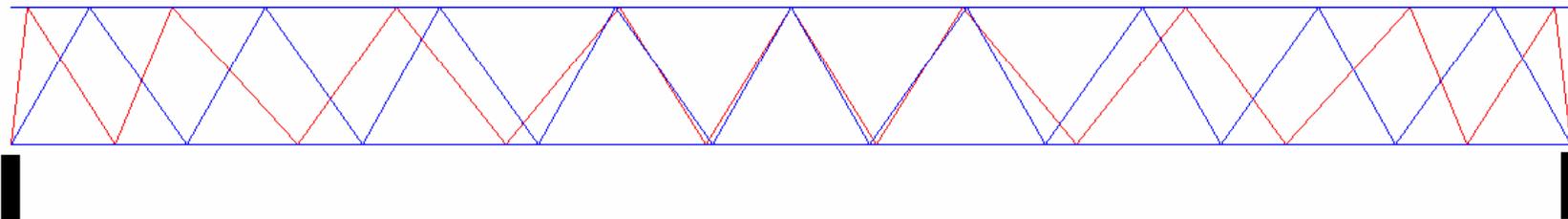
Optimização da forma de uma ponte de peões

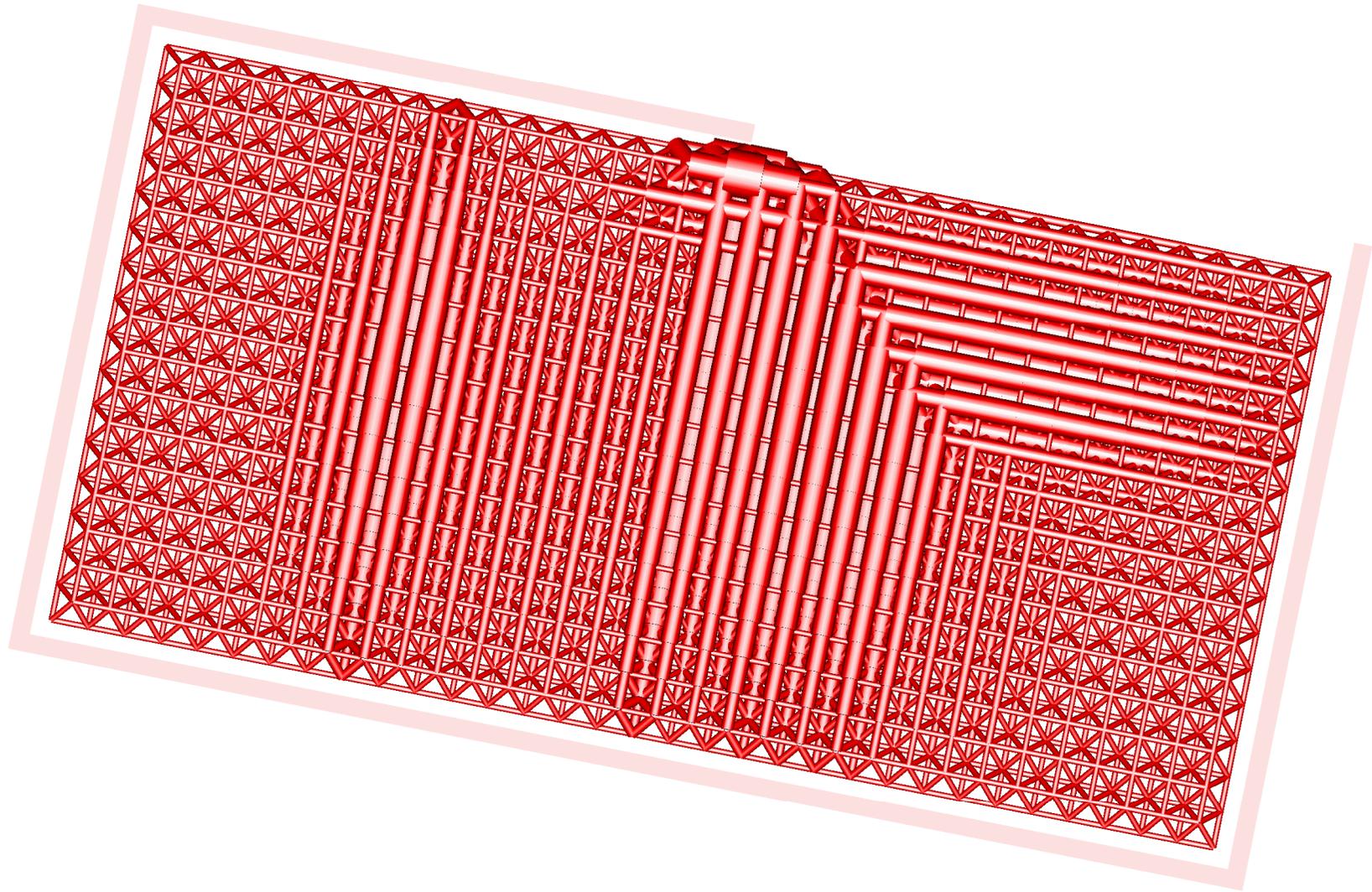


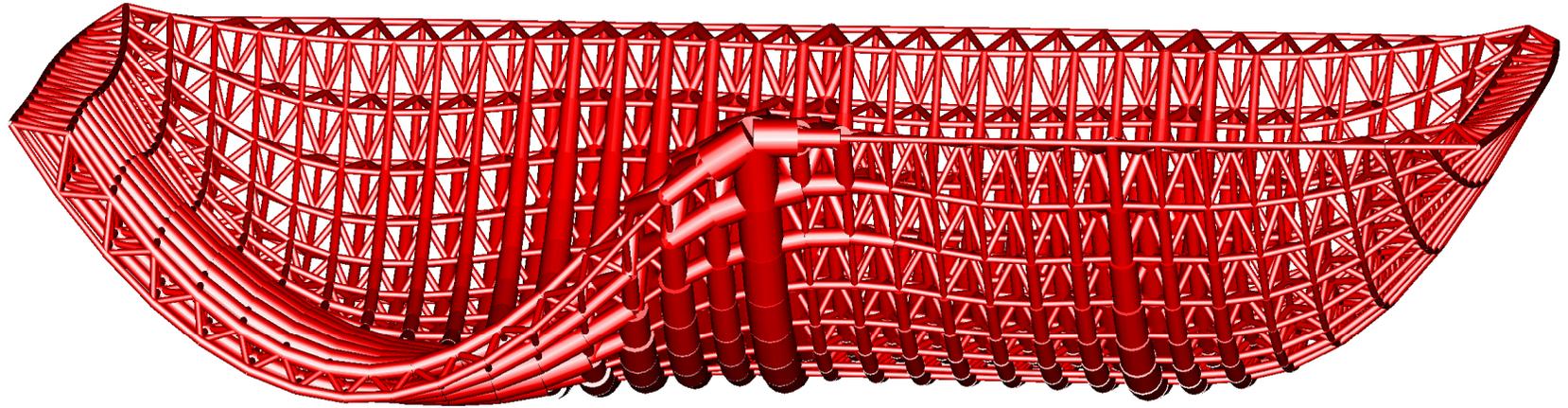
Optimização da forma de uma ponte de peões

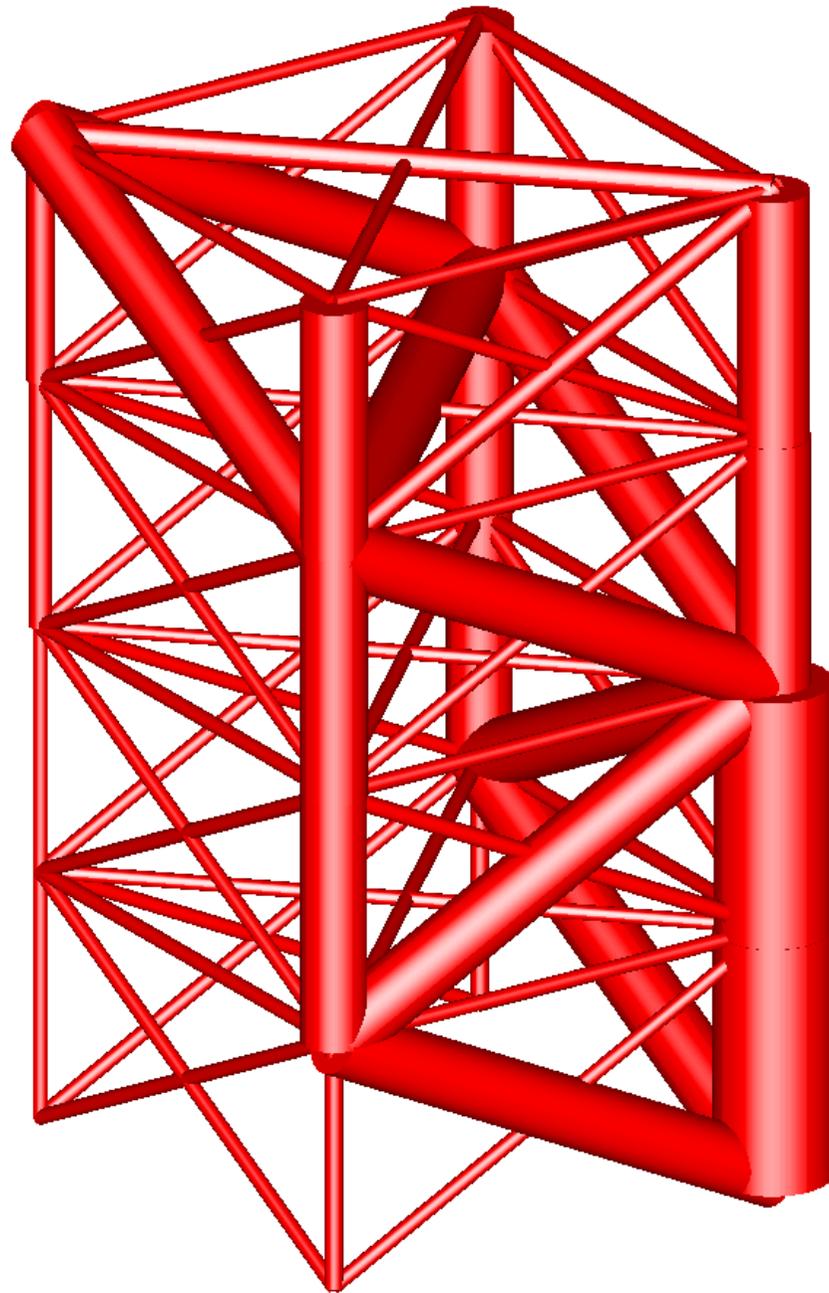
— Solução inicial

— Solução óptima



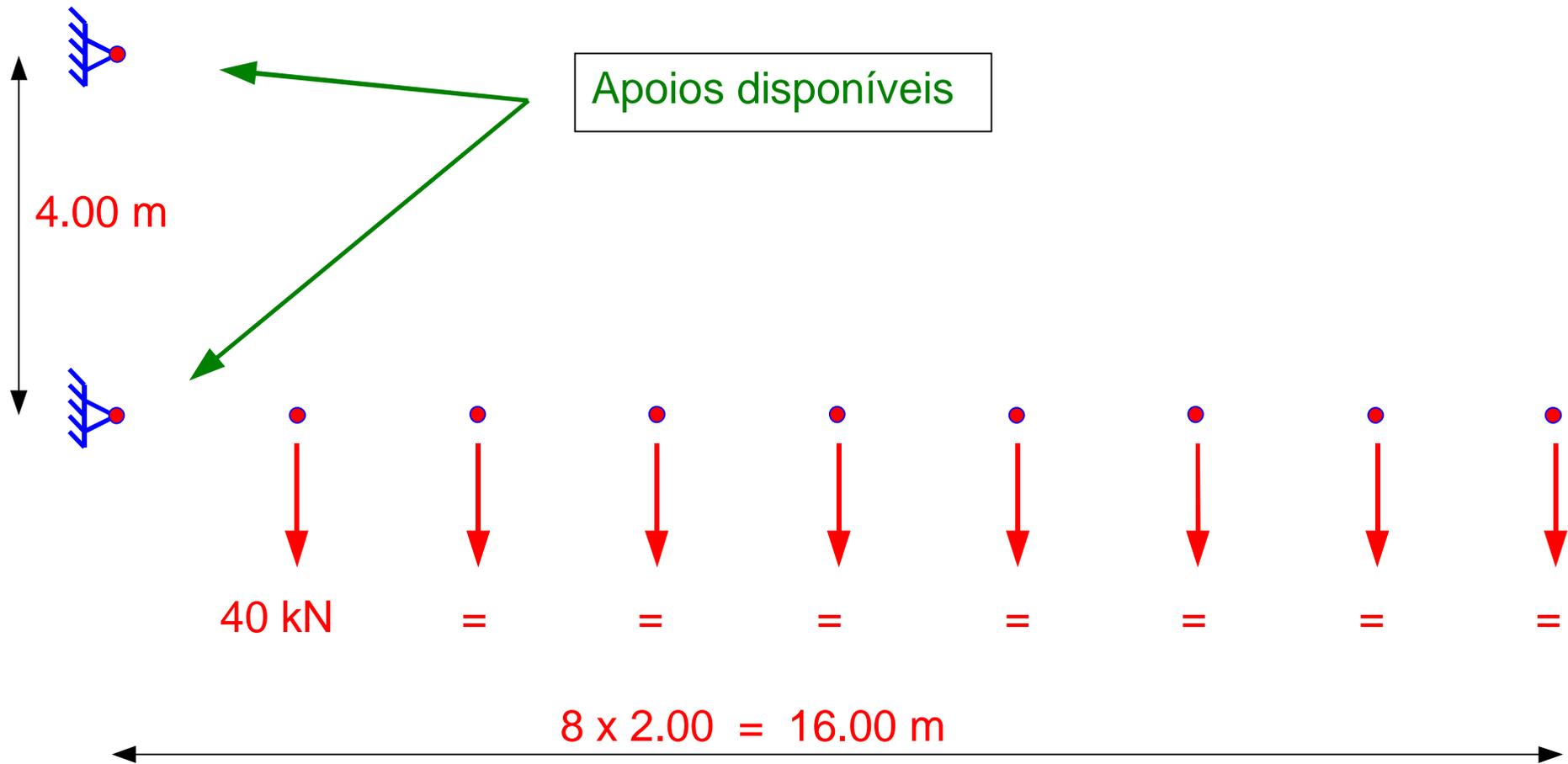




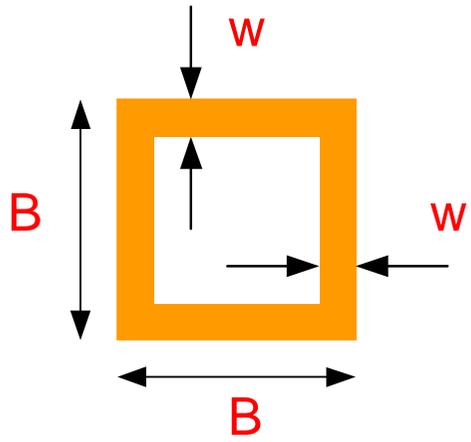


Problema: criar uma estrutura de suporte para 8 cargas de 40 kN

RSA/REAE - Fe 430

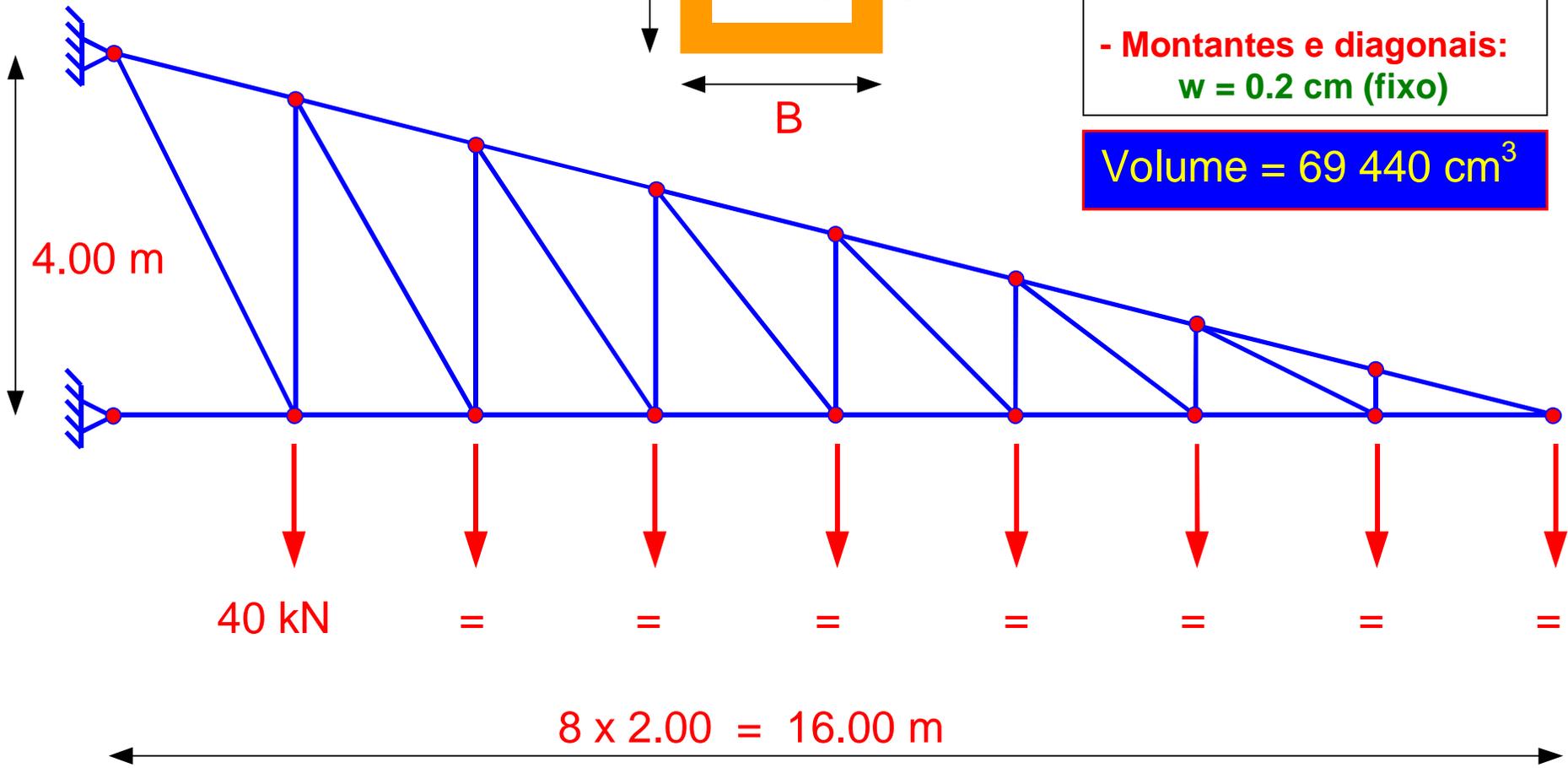


RSA/REA - Fe 430

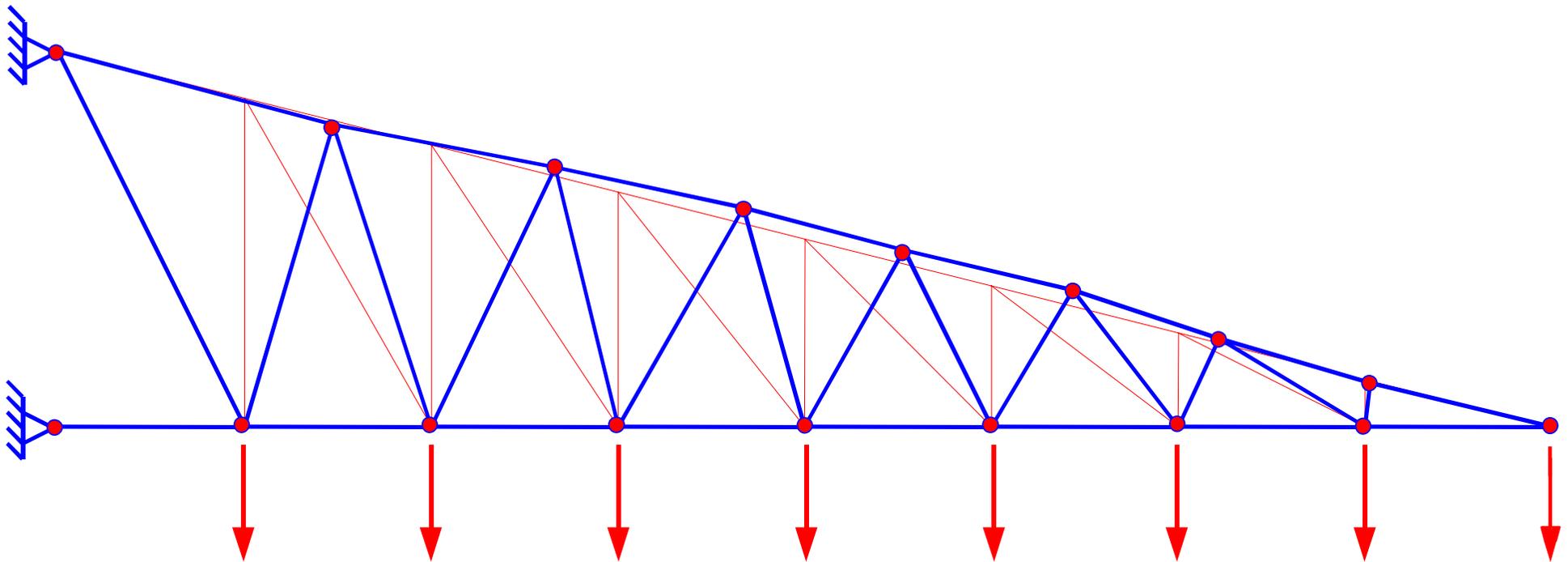


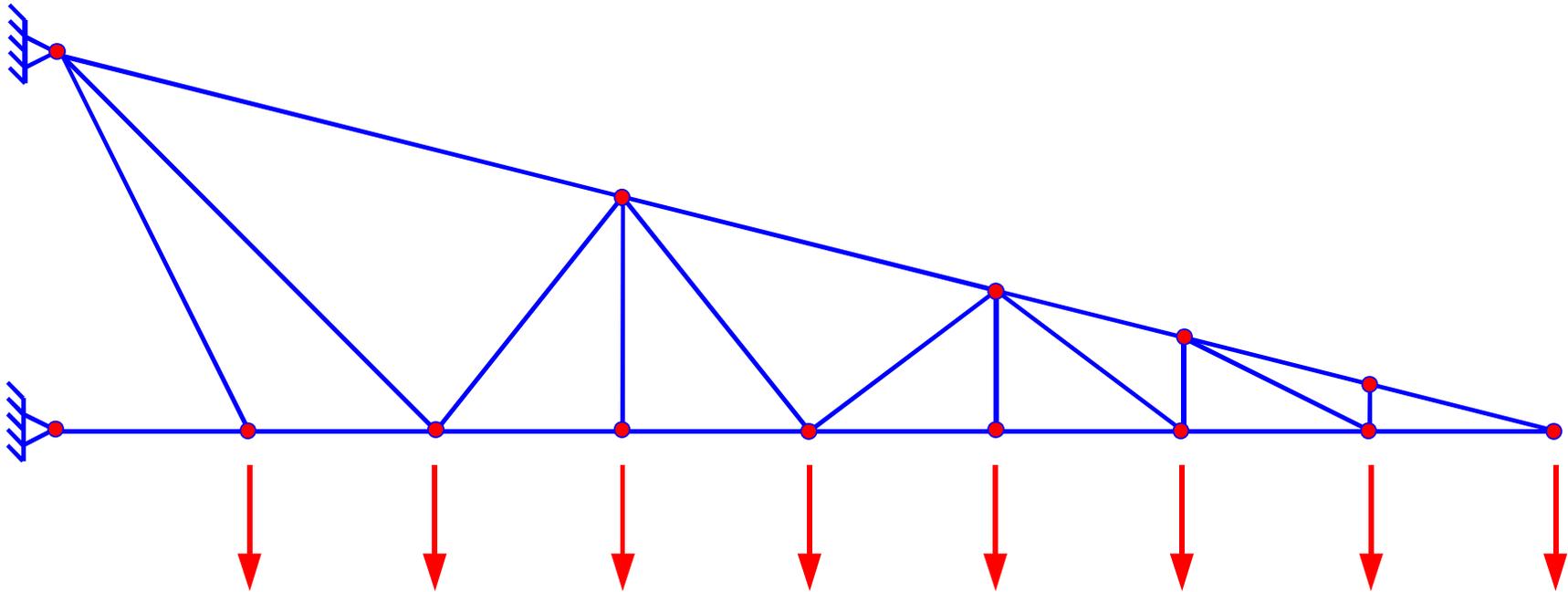
- Banzo horizontal:
 $B = 12.0$ cm (fixo)
- Banzo inclinado:
 $B = 8.0$ cm (fixo)
- Montantes e diagonais:
 $w = 0.2$ cm (fixo)

Volume = 69 440 cm³

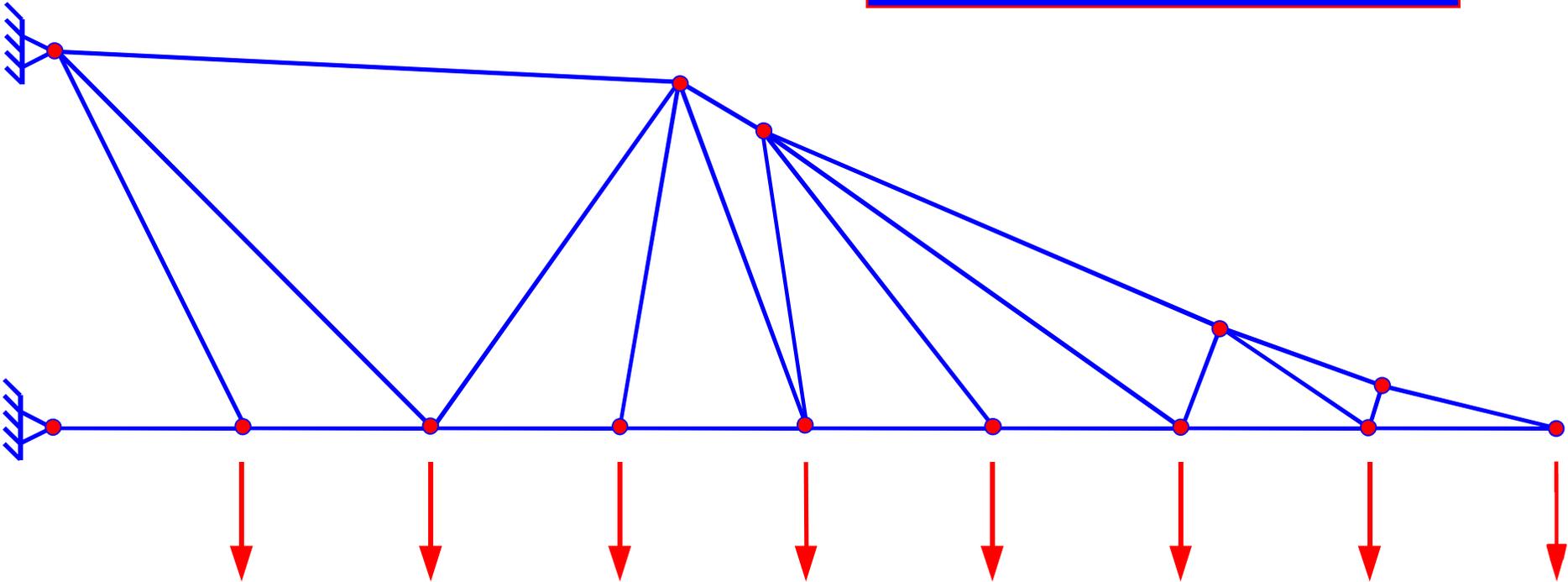


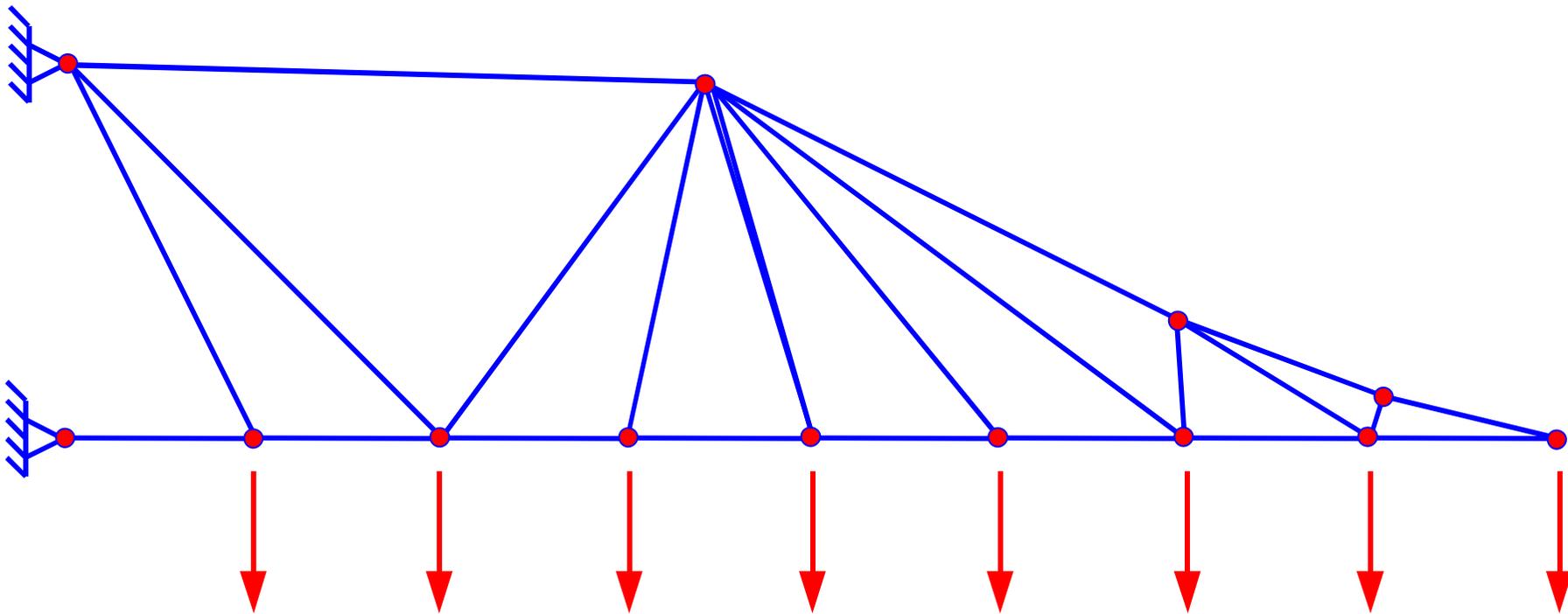
Volume = 66 674 cm³ (-4%)

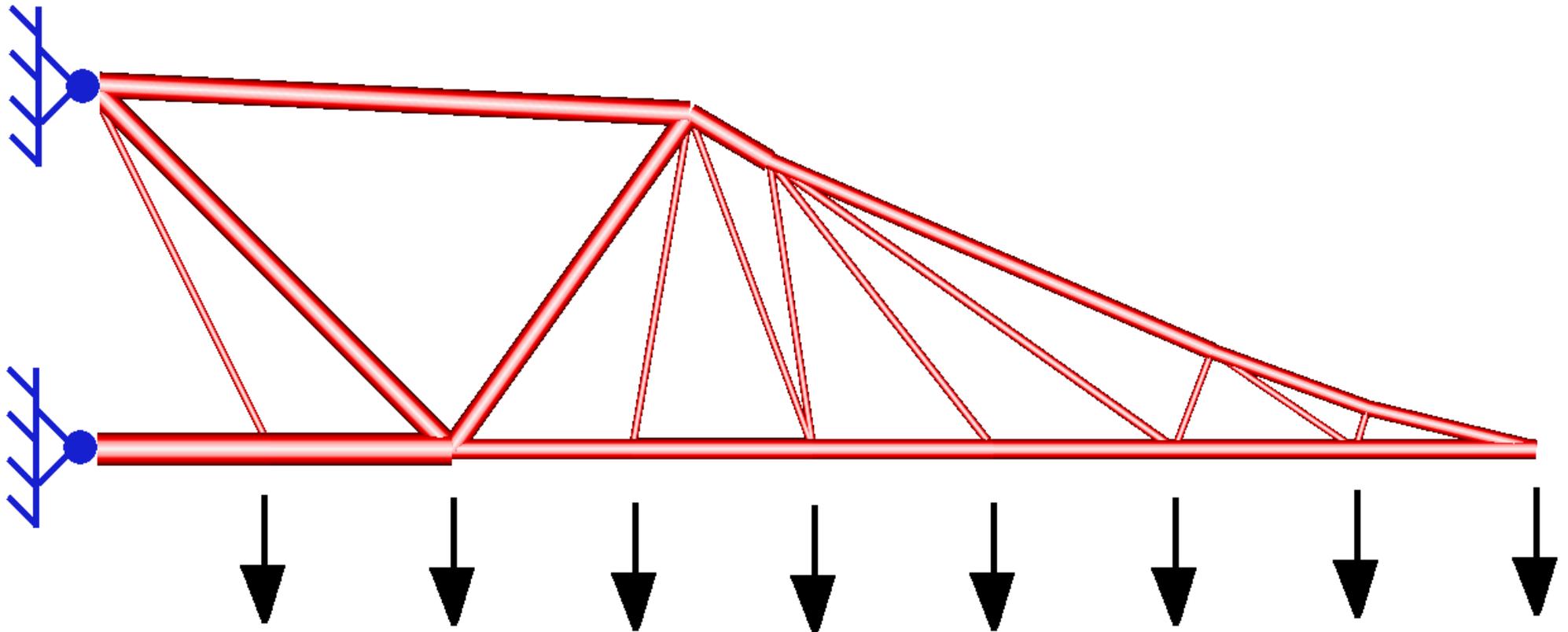




Volume = 58 934 cm³ (-15%)







Trelca em consola (kN,cm)

1 - Trac

