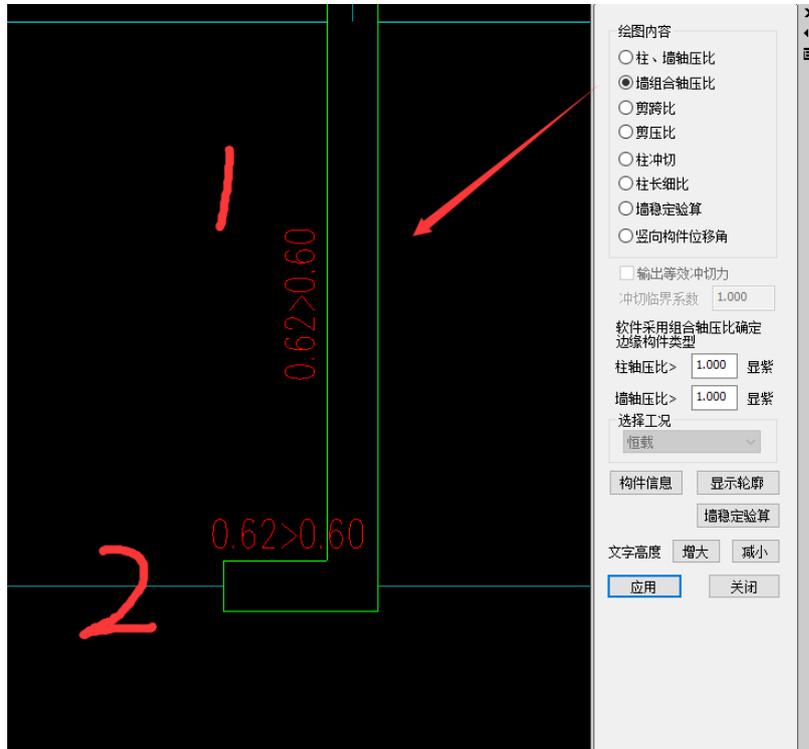
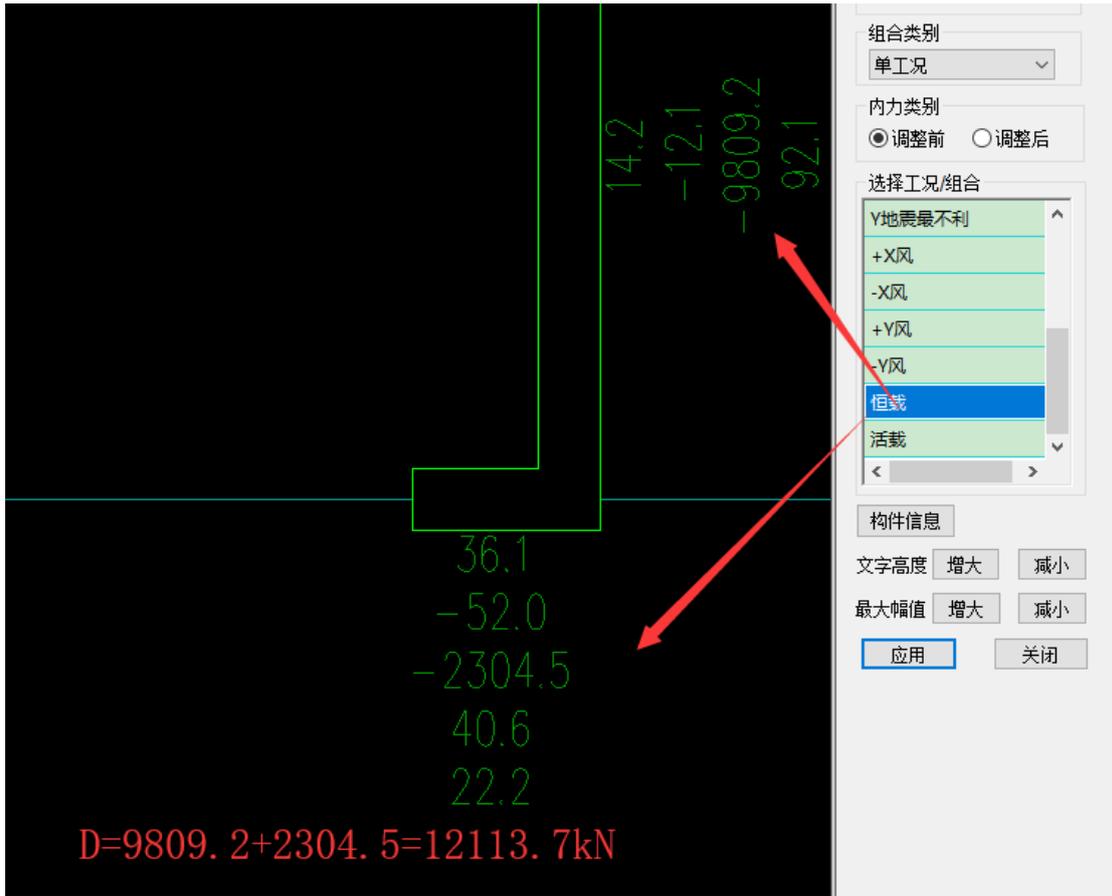


## 墙轴压比验算

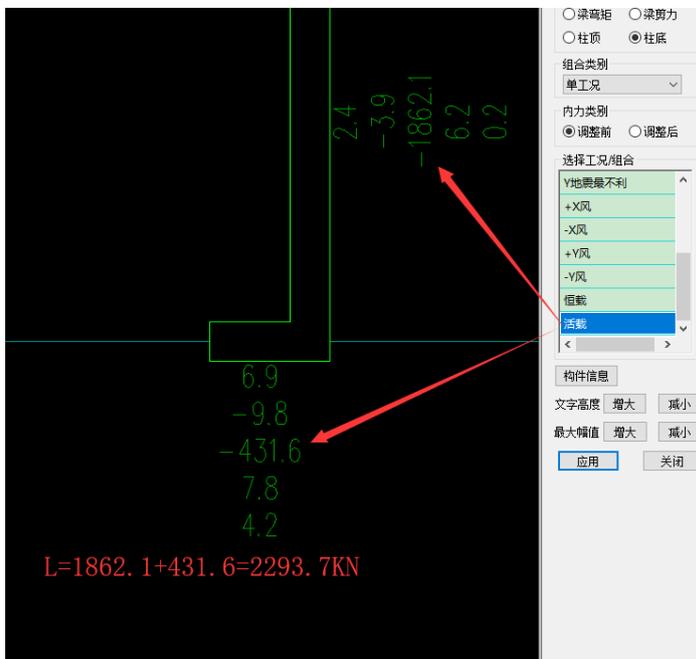
墙轴压比=内力调整前的组合墙内力对应的重力荷载代表值设计值/A\*fc

如下核算墙 1 的轴压比：对于此，软件的处理如上所述，按组合墙的内力考虑





恒载



活载

混凝土 强度为 C45, 其  $f_c=21.1\text{N/mm}^2$   $A_c=4.05 \times 0.3=1.215 \text{ m}^2=1215000\text{mm}^2$  ( $A_c$  取值见后截图)

所以有:

墙轴压比  $\mu=1.2* (1.0*D+0.5L) /fc*Ac$   
 $=1.2* (12113.7+0.5*2293.7) \text{ kN}/(21.1*1215000\text{N})$   
 $=0.62$

与下图结果相同:  $N\mu=1.2* (1.0*D+0.5L) =1.2* (12113.7+0.5*2293.7) \text{ kN}=15912.66$

```
livec=0.650 jzx=1.188, jzy=1.110
ηmu=1.000 ηvu=1.200 ηmd=1.000 ηvd=1.200
( 15)M= 1361.0 V= 160.5 w= 2.735
Nu= -15912.6 Uc=0.62
```

以下为墙肢的取值长度示意:

