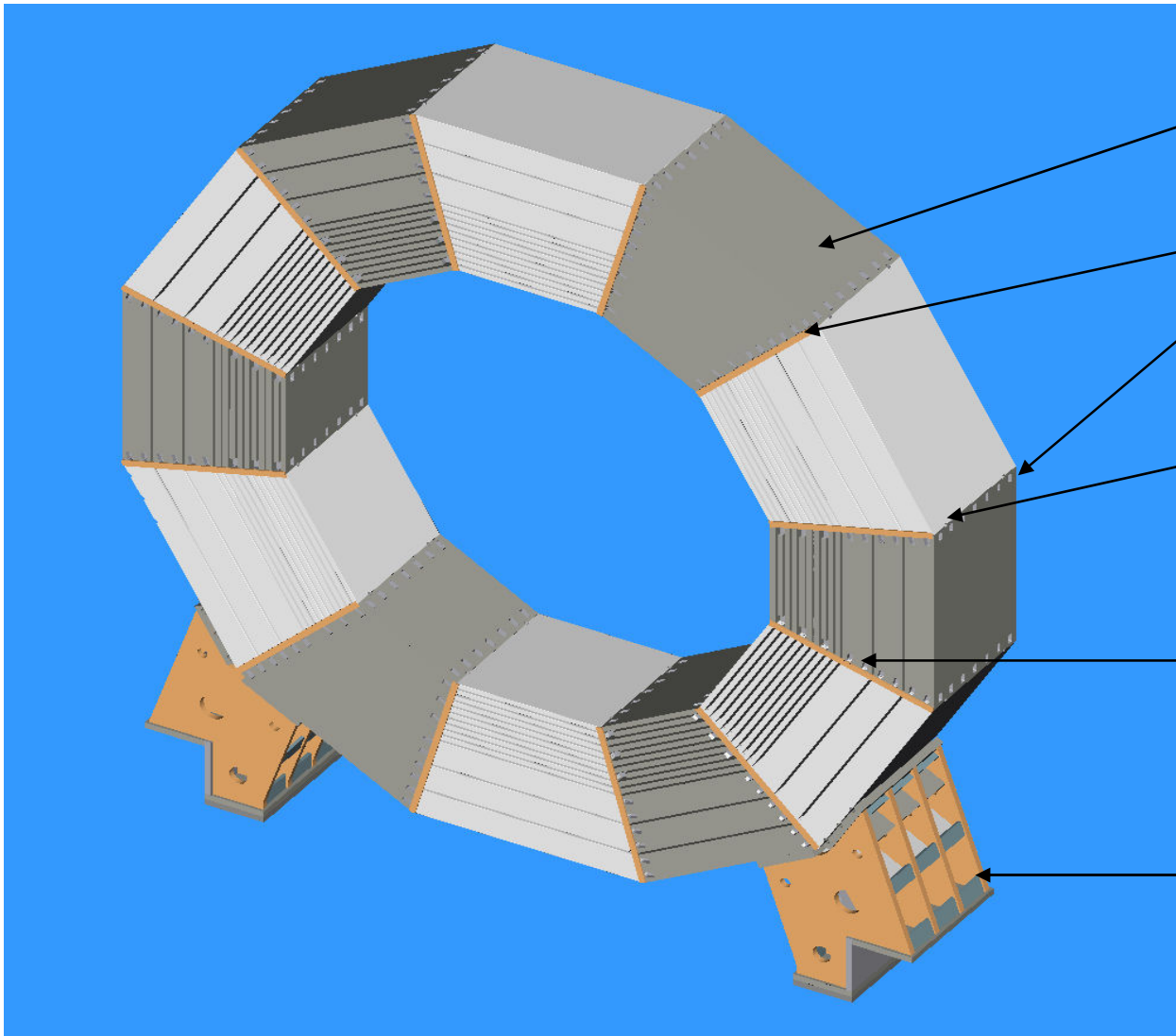


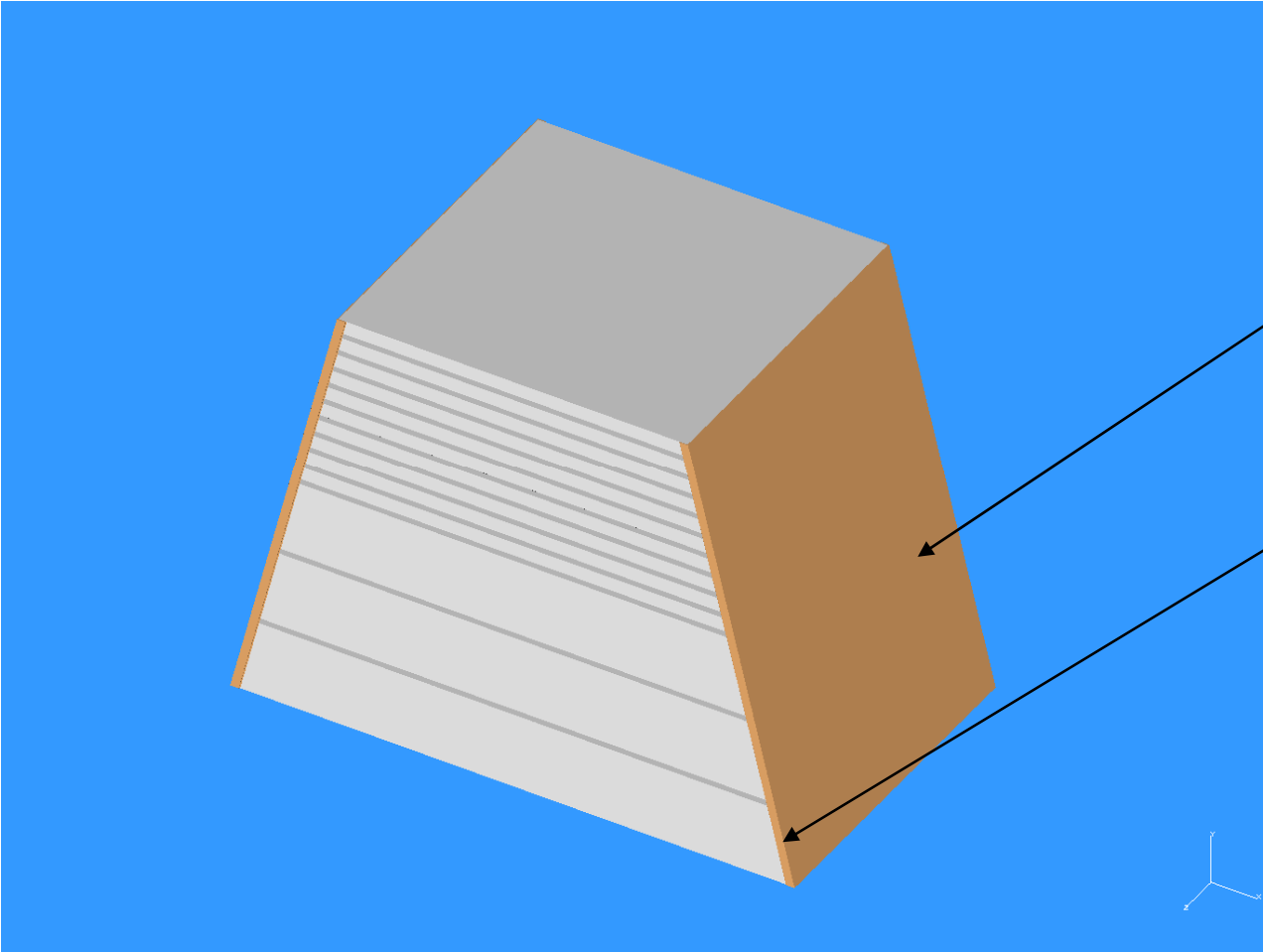
The Barrel ILD Yoke: total mass ~ 2500 tonnes, max. def. ~ 1,8 mm



Assembly:

- segments ~ 200 t. welded
- shoulder for end-stop
- screws min. M30 / (min. 32 pieces)
- bolts (4 pieces
d ~ 120, lg. 350 assembling bore)
- key ledge, horizontal (1 per segment 160x160, 2200 lg. mm)
- stand (screws min. M30, d ~ 120, lg. 350, assembling bore)

technical conditioning, segment 1 - after welding

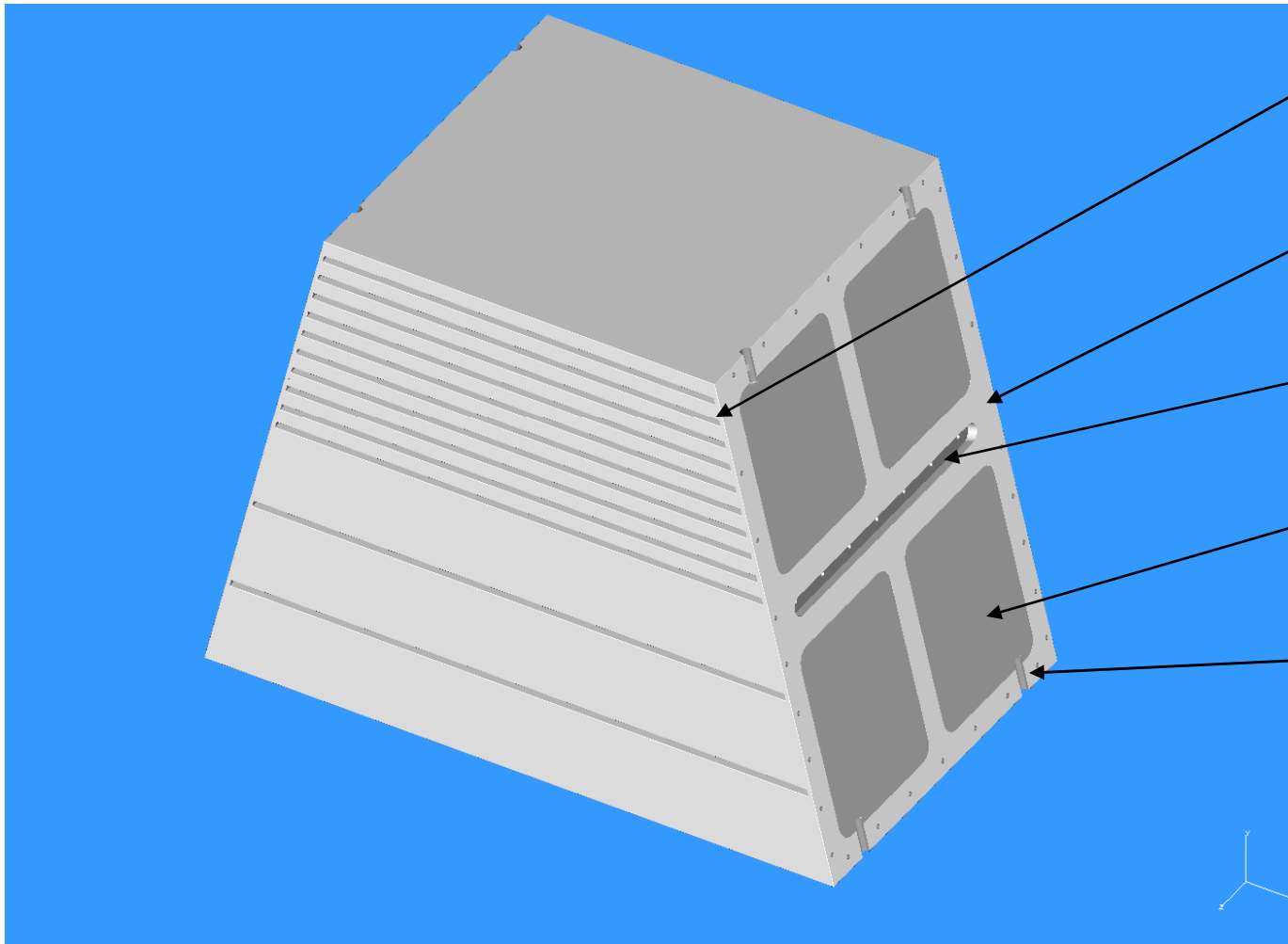


- allowance + 8 mm
(brown area)

- spot-face and
shoulder for stopper



segment 1 - after technical conditioning



- shoulder for
end- stop

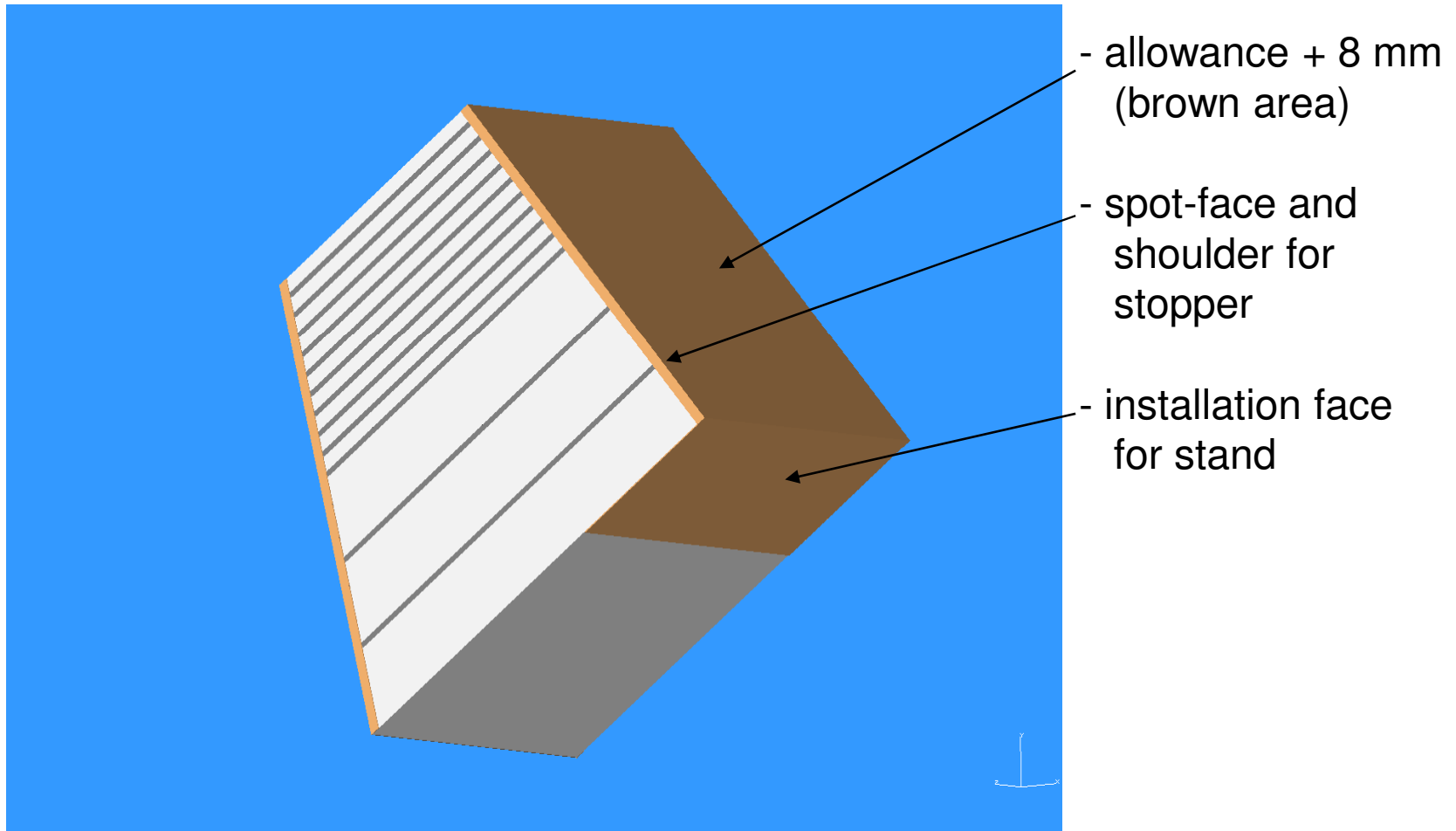
- screws min. M30

- key ledge

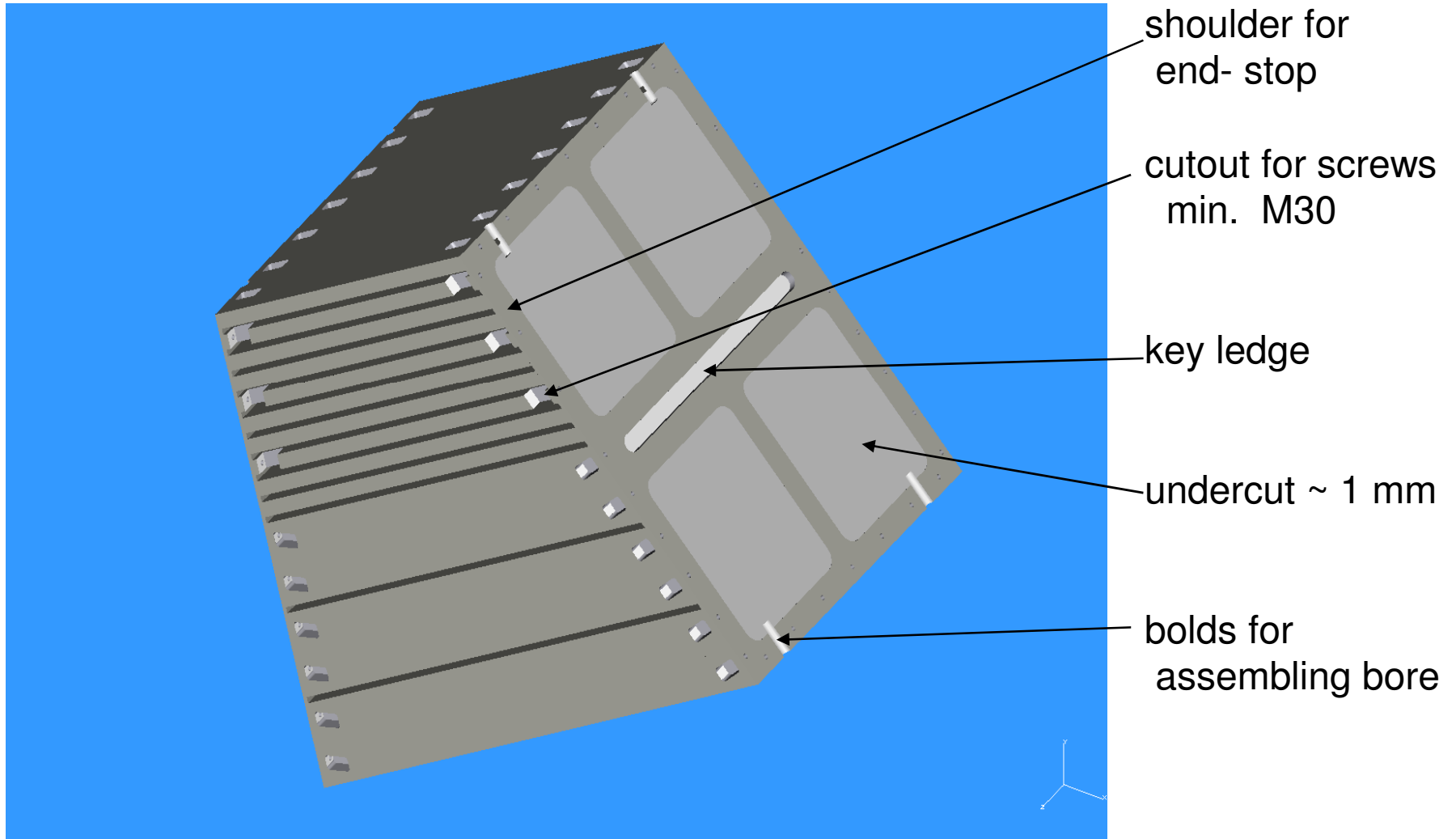
- undercut ~ 1 mm

- bolts for
assembling bore

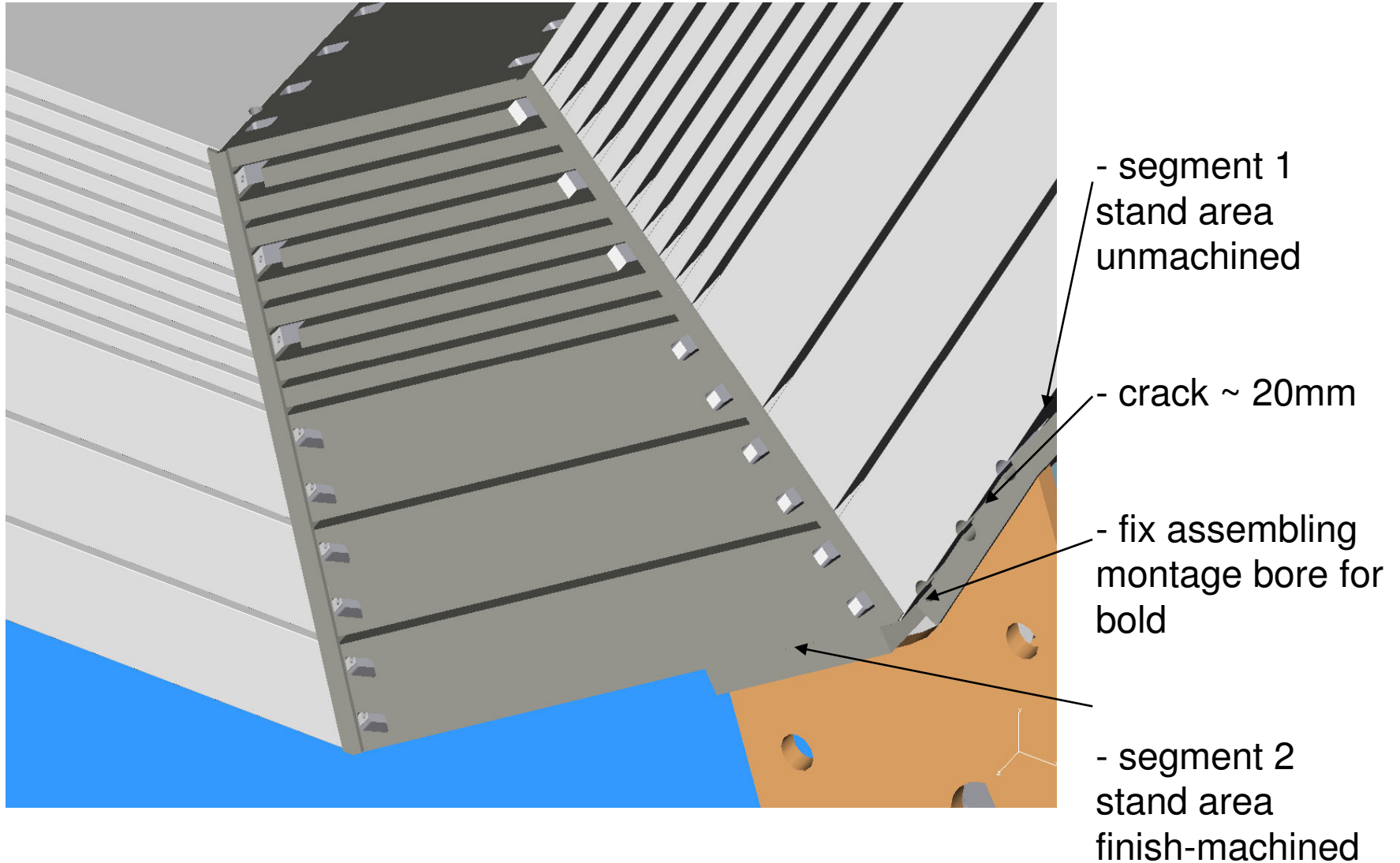
technical conditioning, segment 2 - after welding



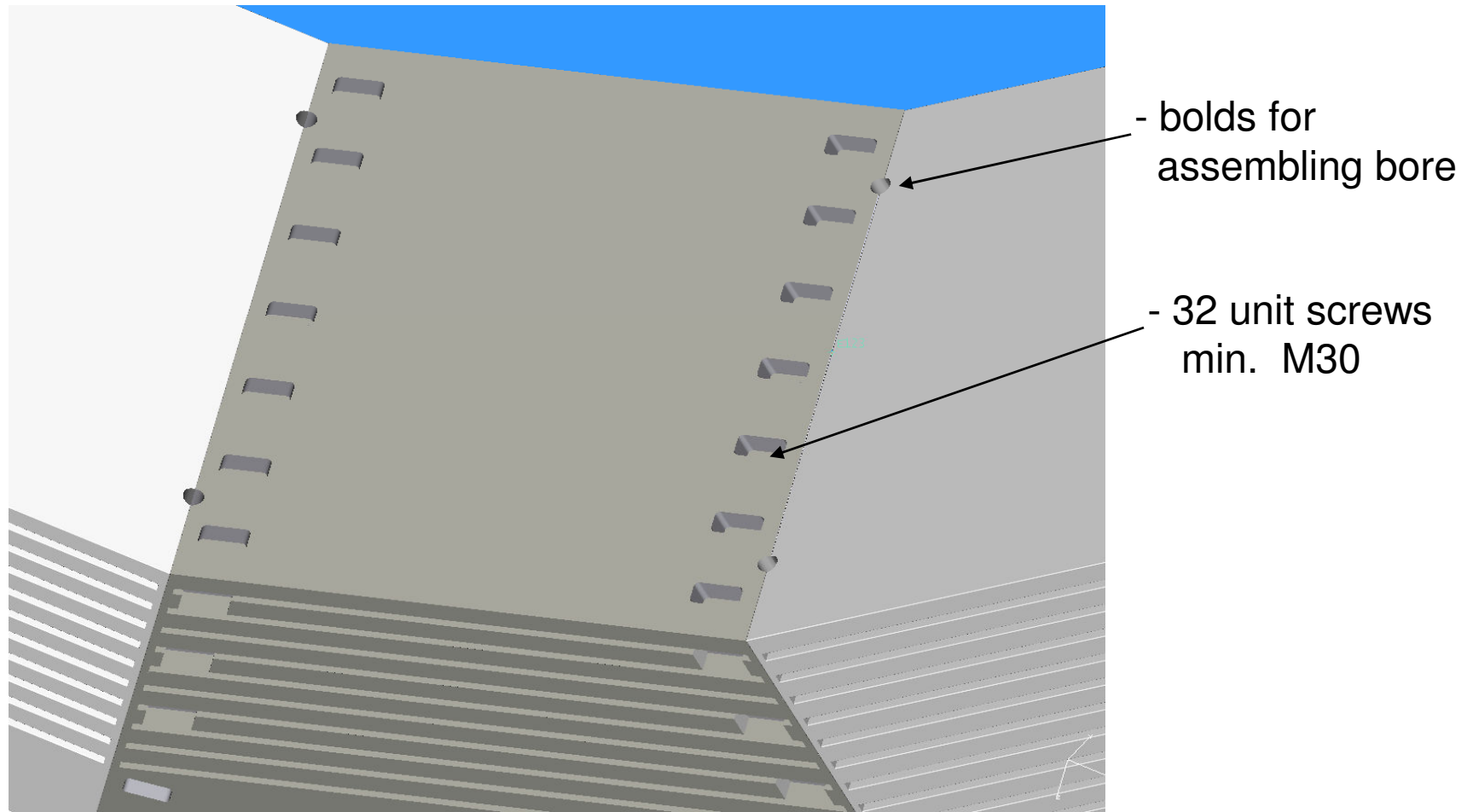
segment 2 - after technical conditioning



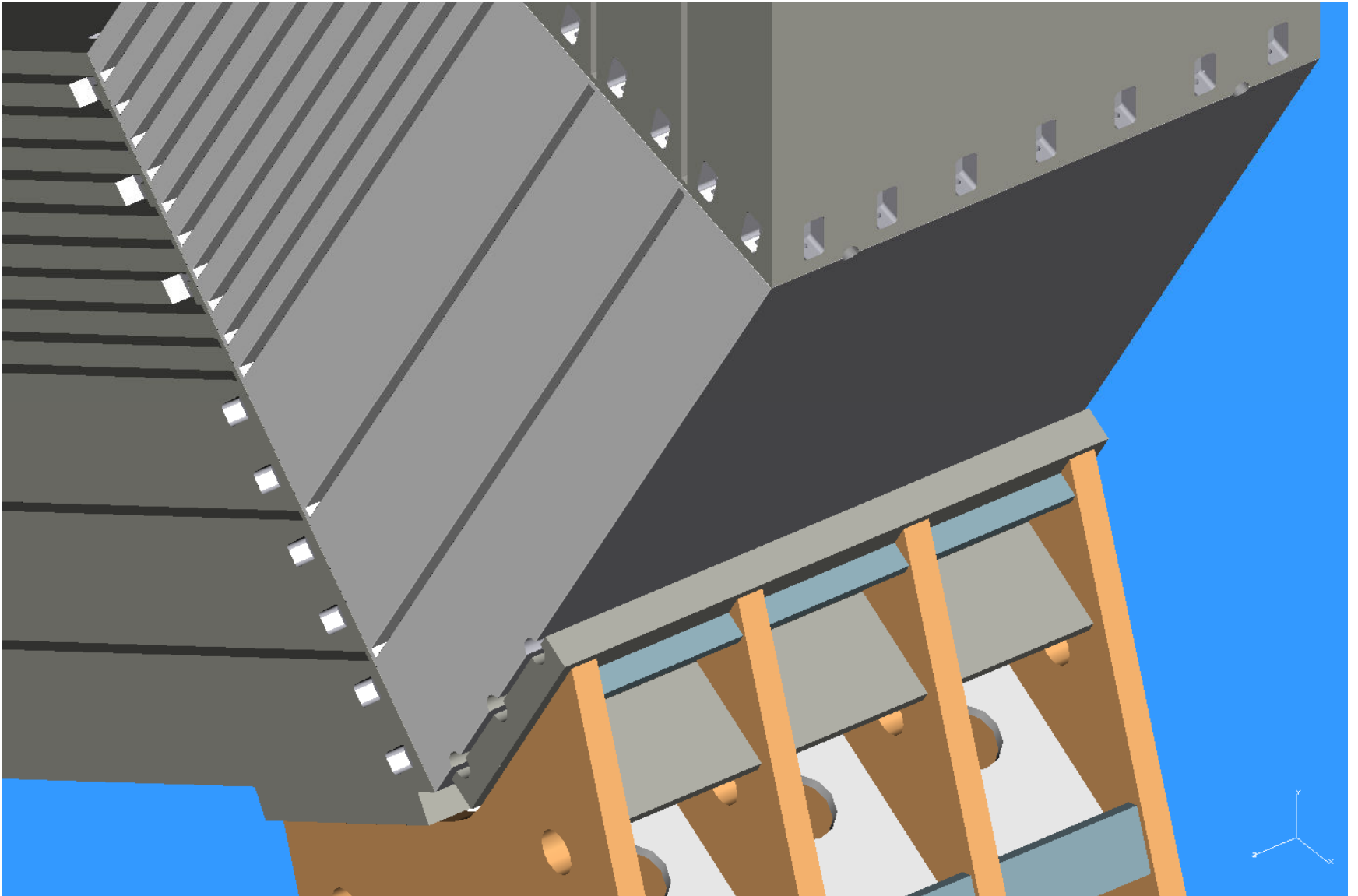
assembling details, 2 segments and stand assembling



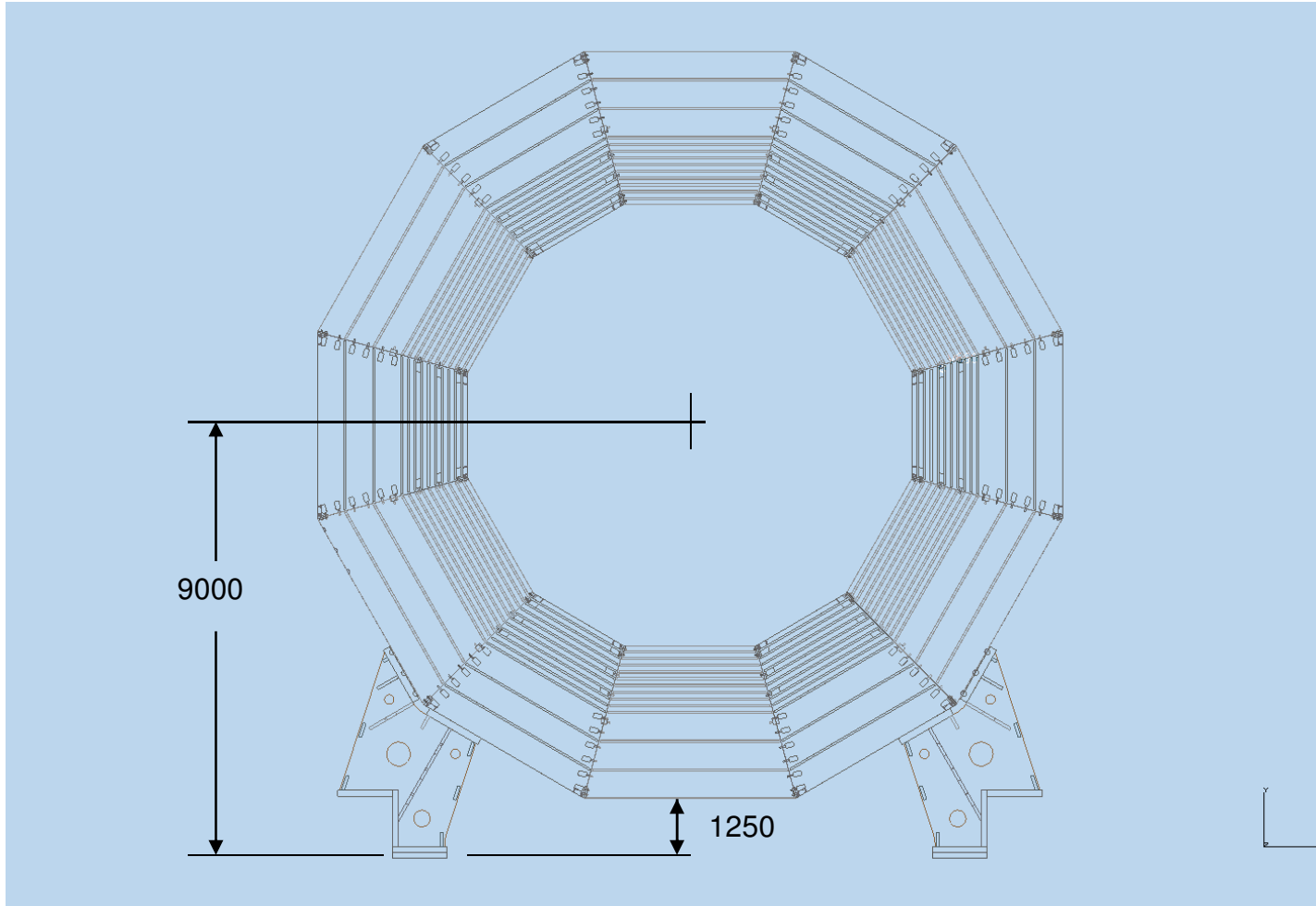
assembling details, middle segment + 2 segments with stand



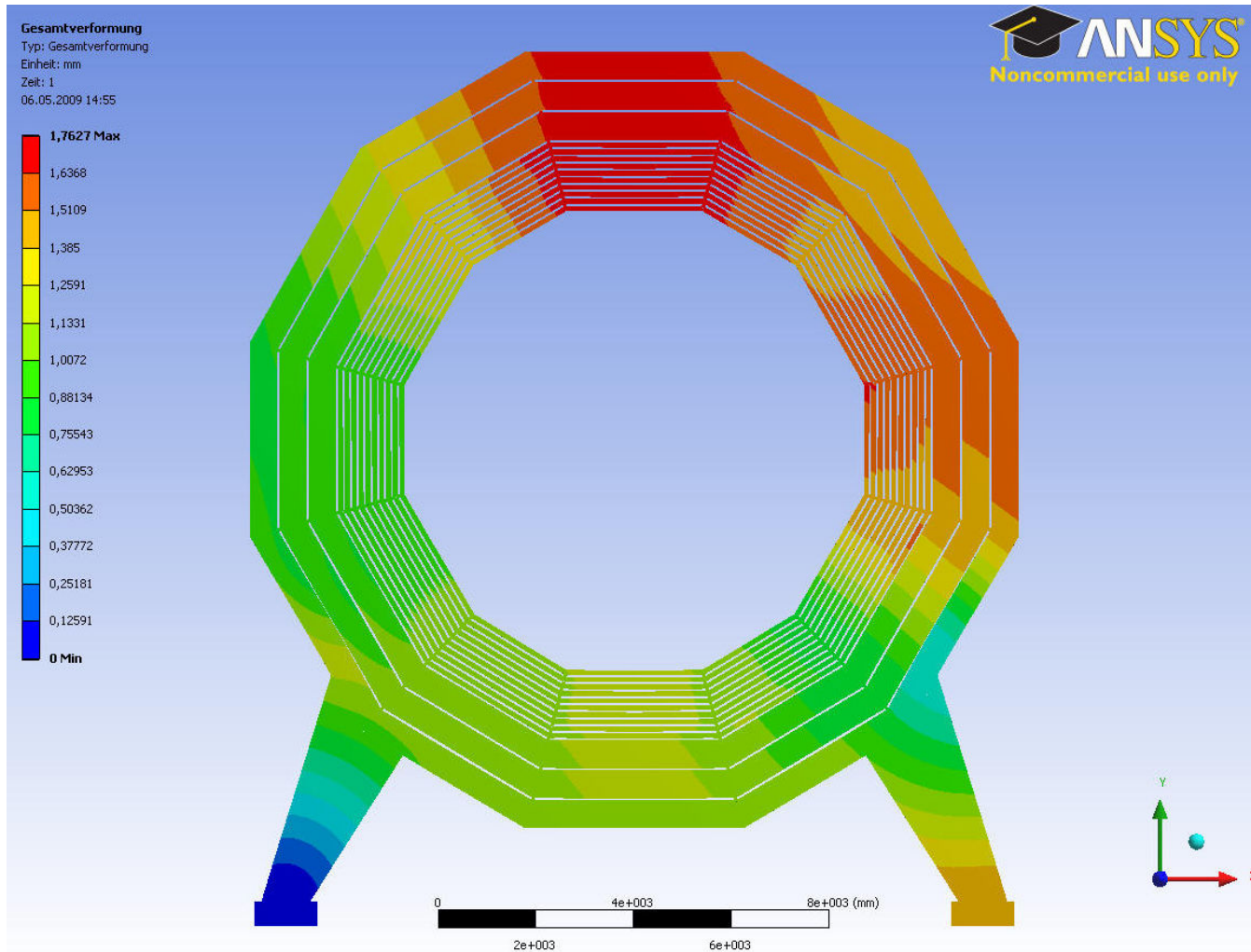
assembling details



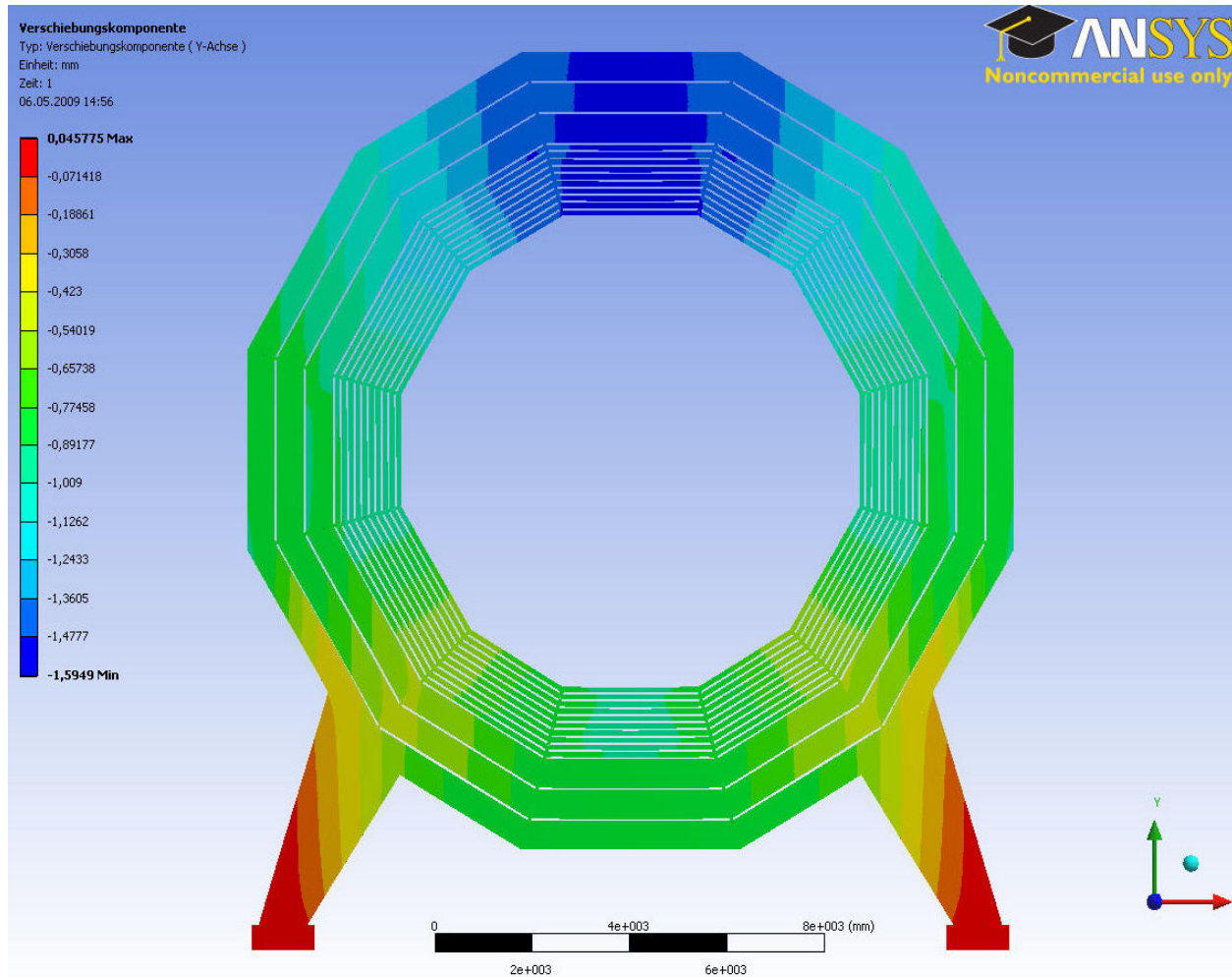
Barrel Geometry



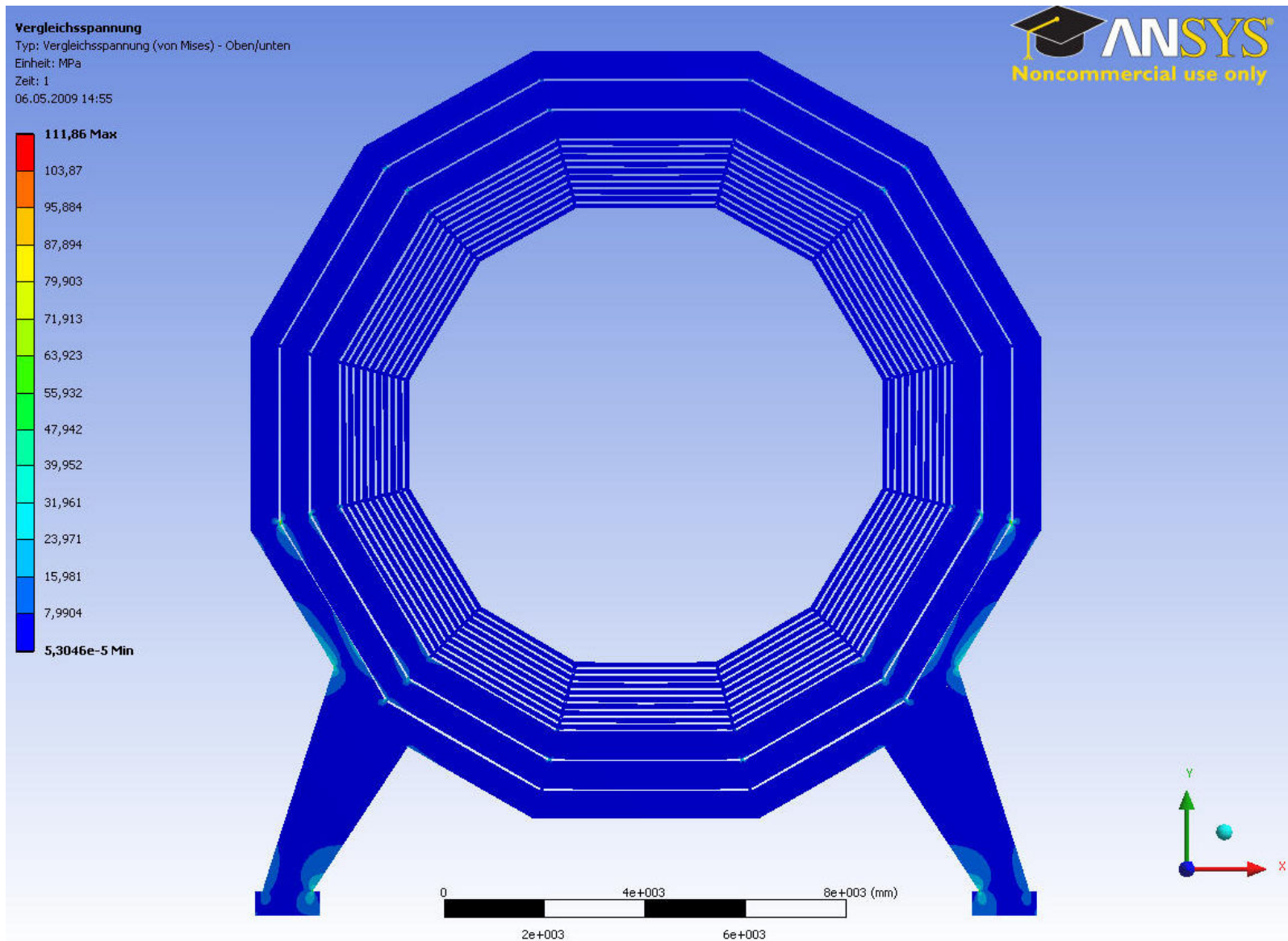
Total plastic strain



Translation displacement Y-Axis



Comperison stress



displacement in x

