

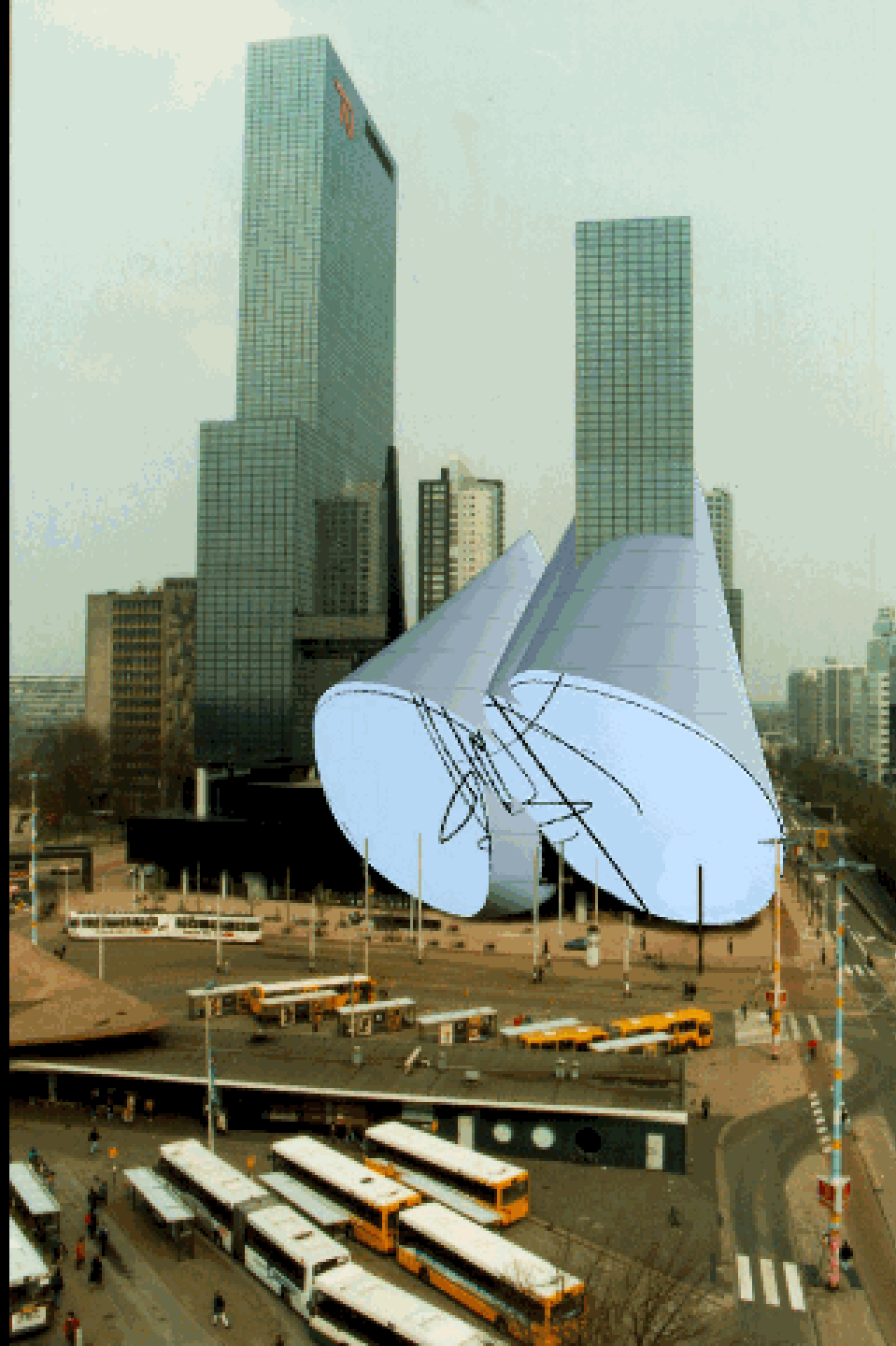
synchronize structure and skin
green engineering | kas oosterhuis | 180423

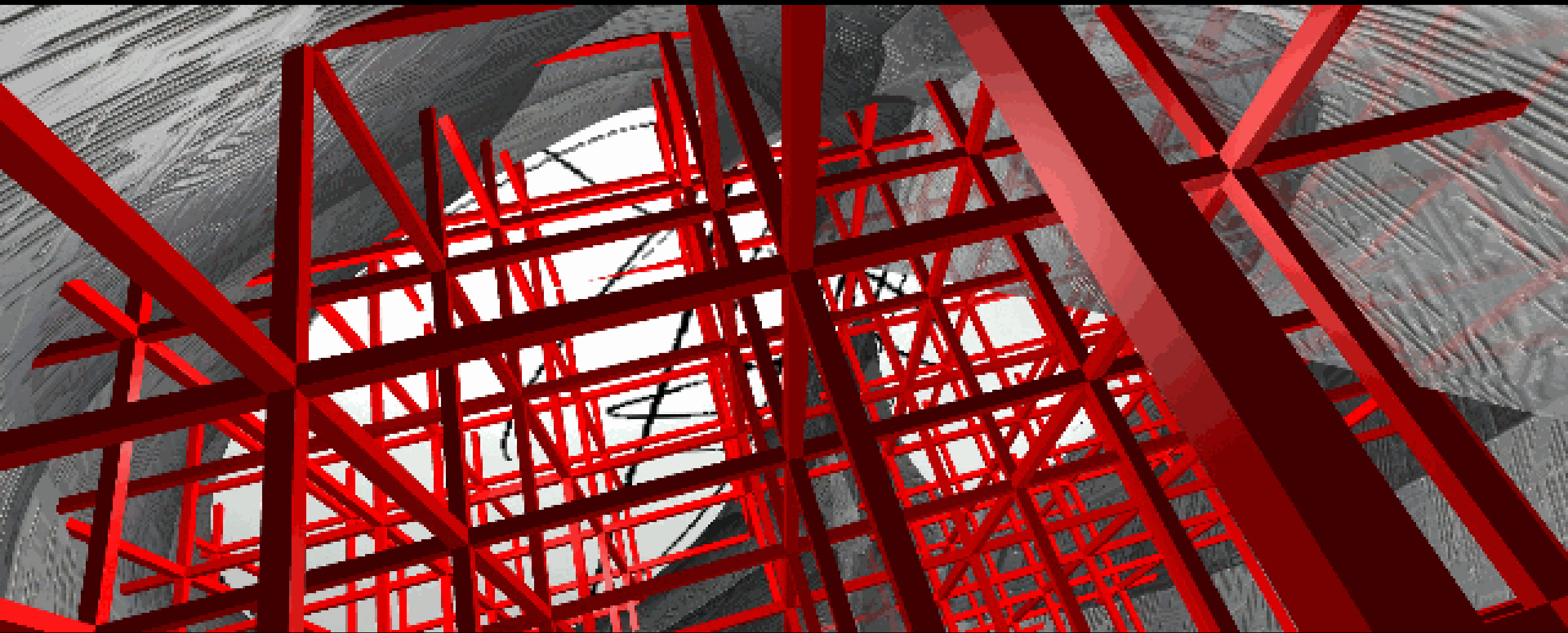
Sculpture City
Transfer Station
Water Pavilion
iWEB
A2 Cockpit
Bálna Budapest
Liwa Tower

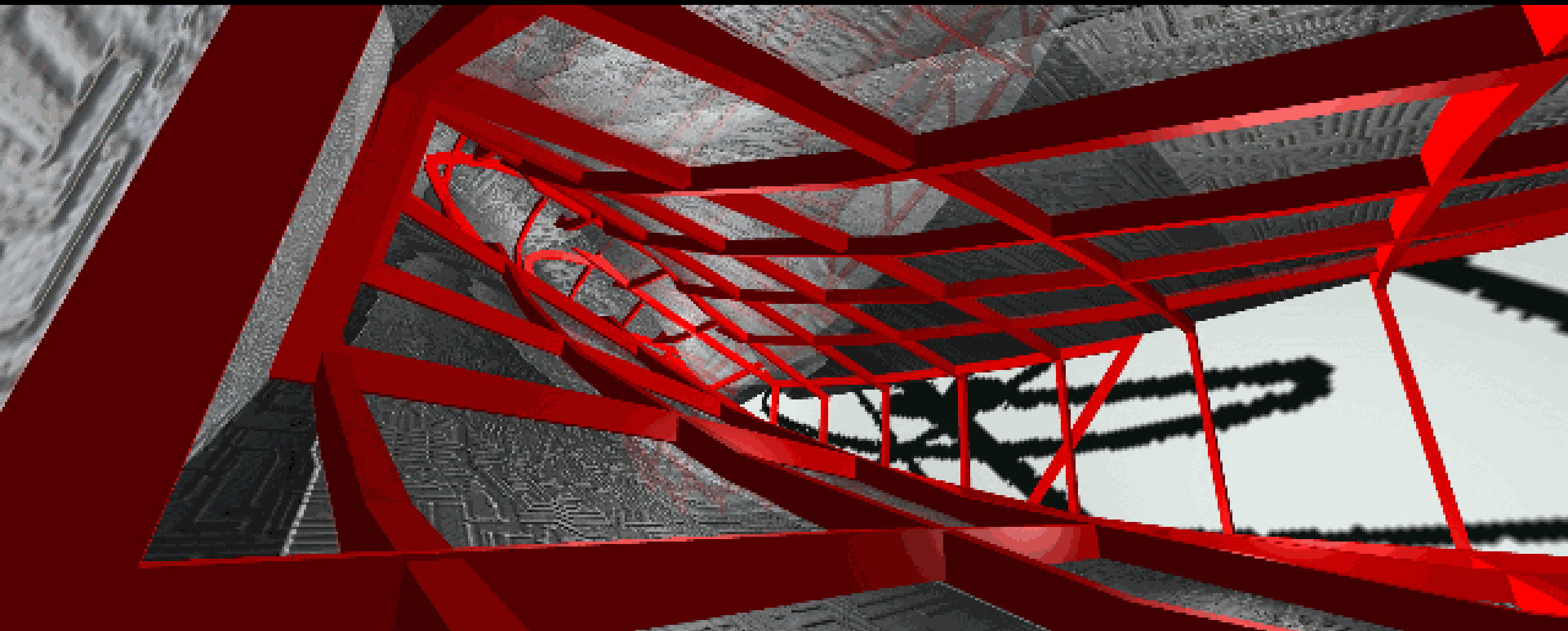
1994 | *Sculpture City*

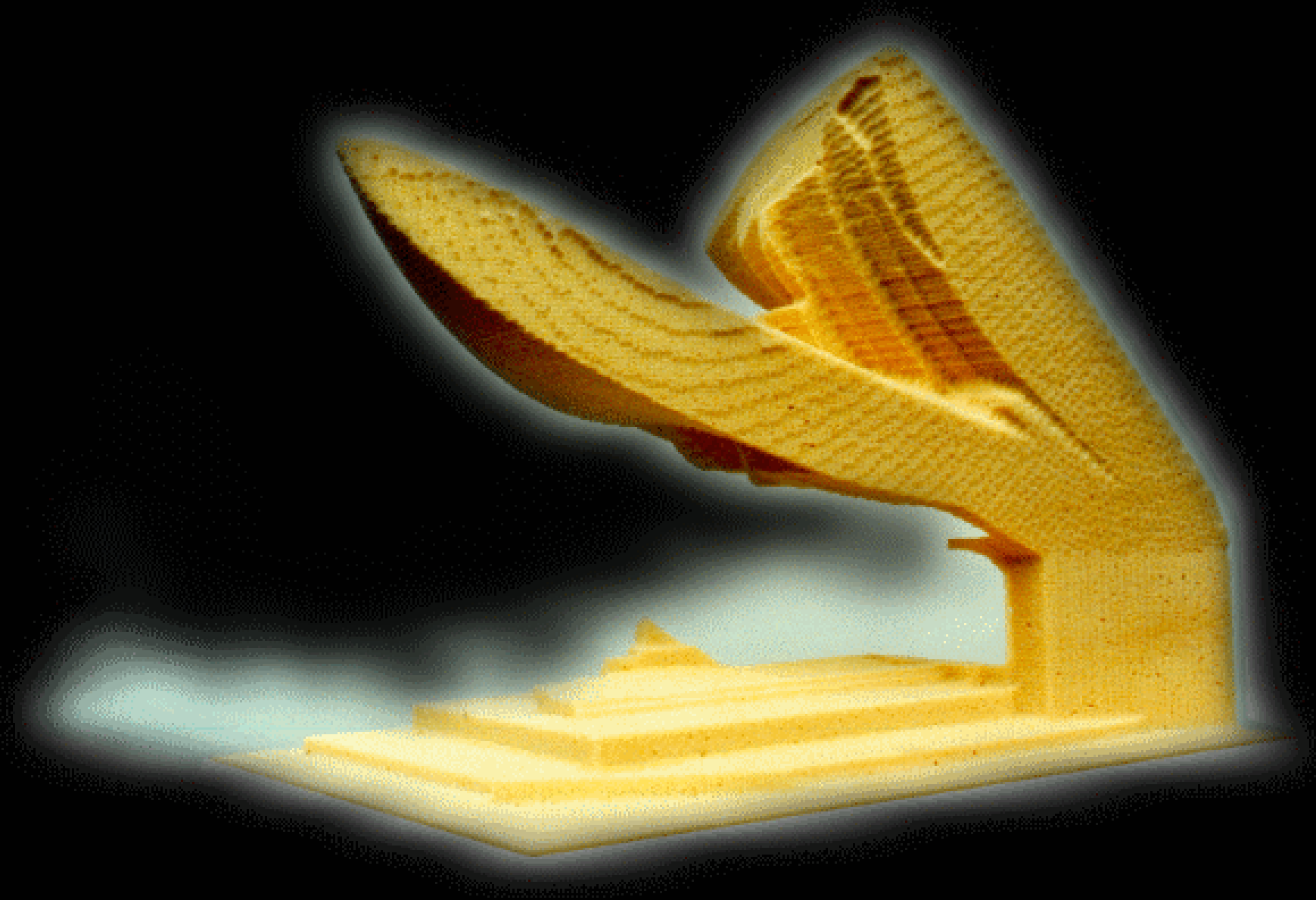
green #1 | fusion art and architecture

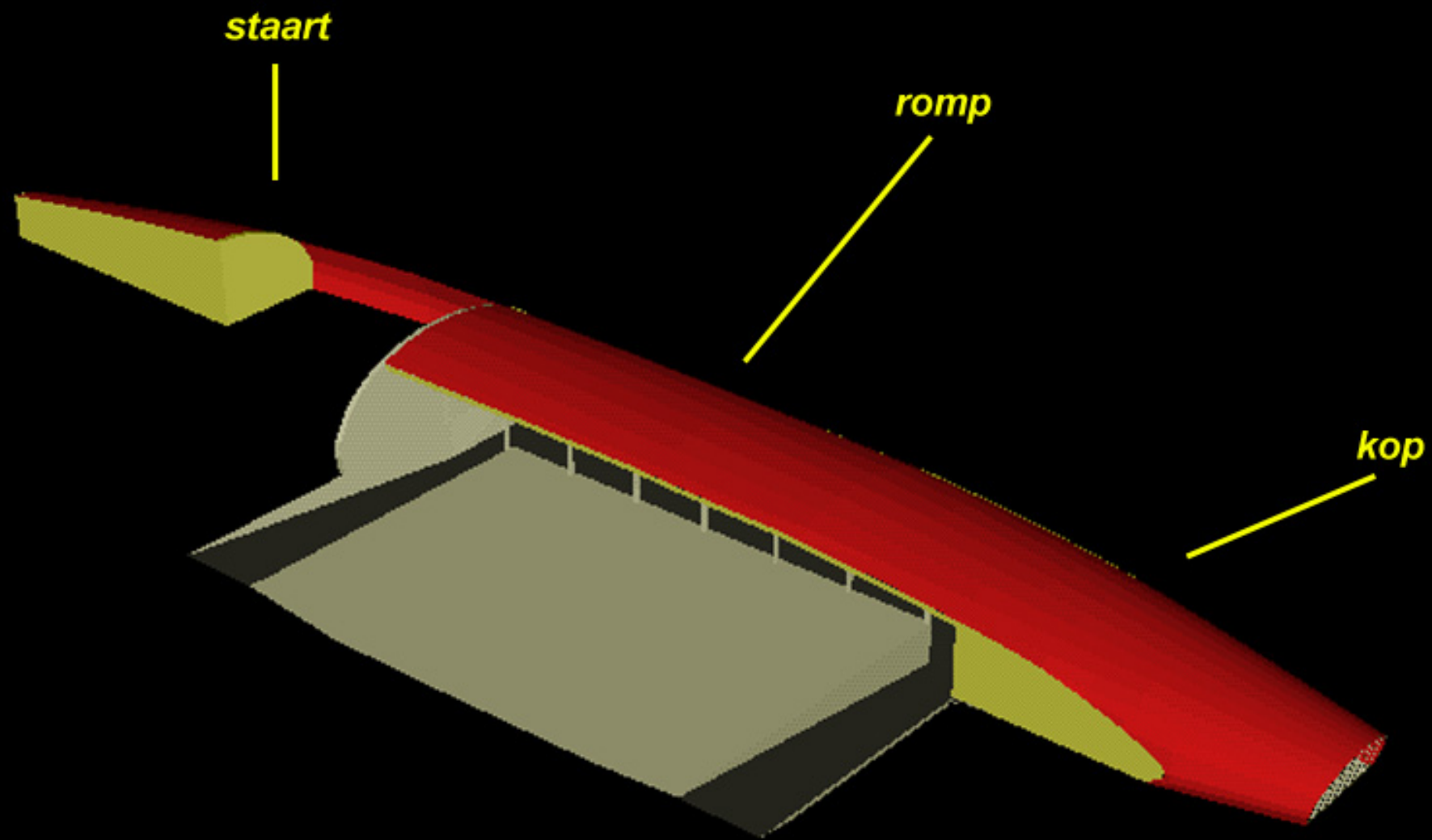












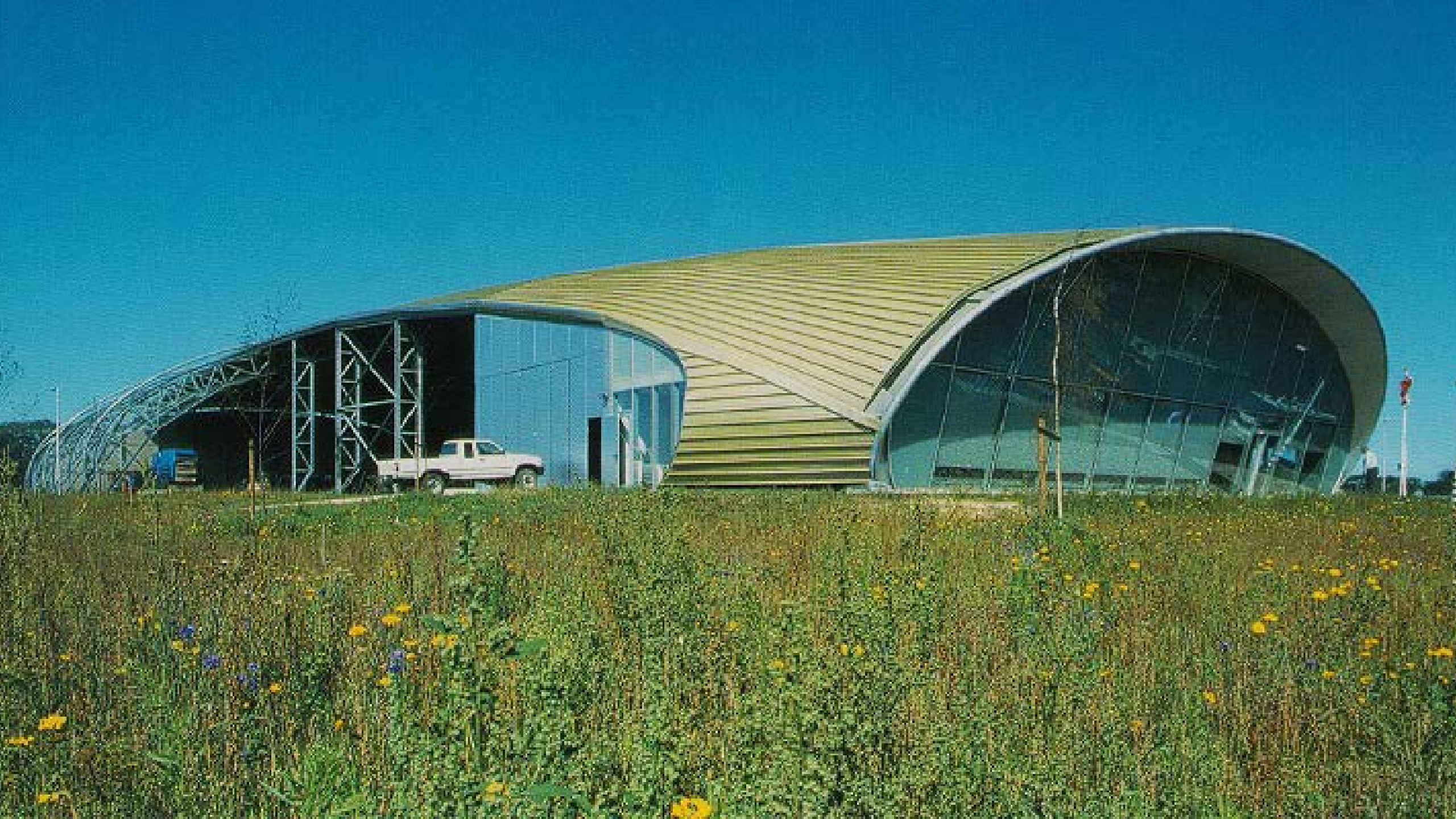
1994 | *Transfer Station*

green #2 | loose envelop





variable sections







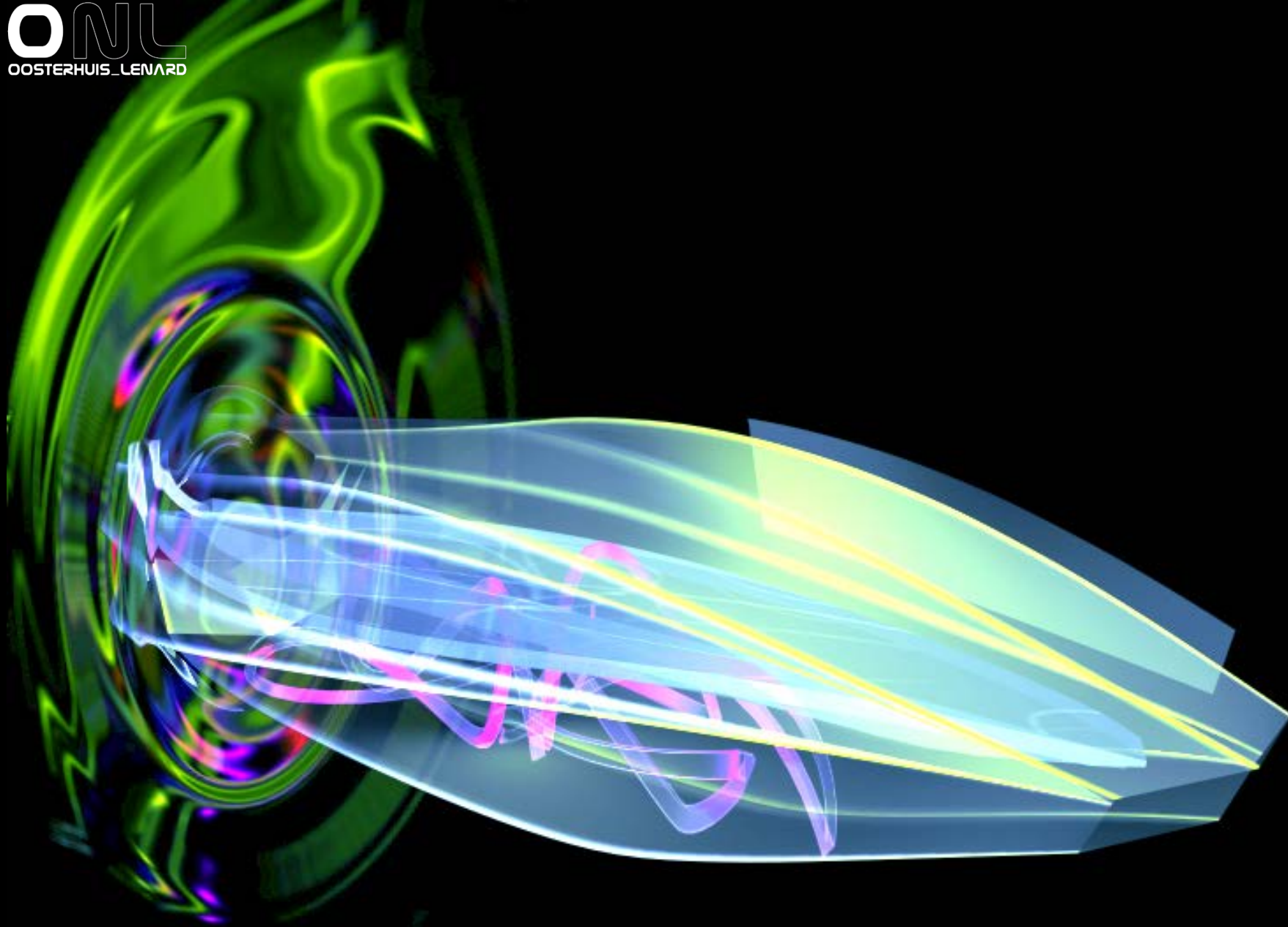




1997 | *Water Pavilion*

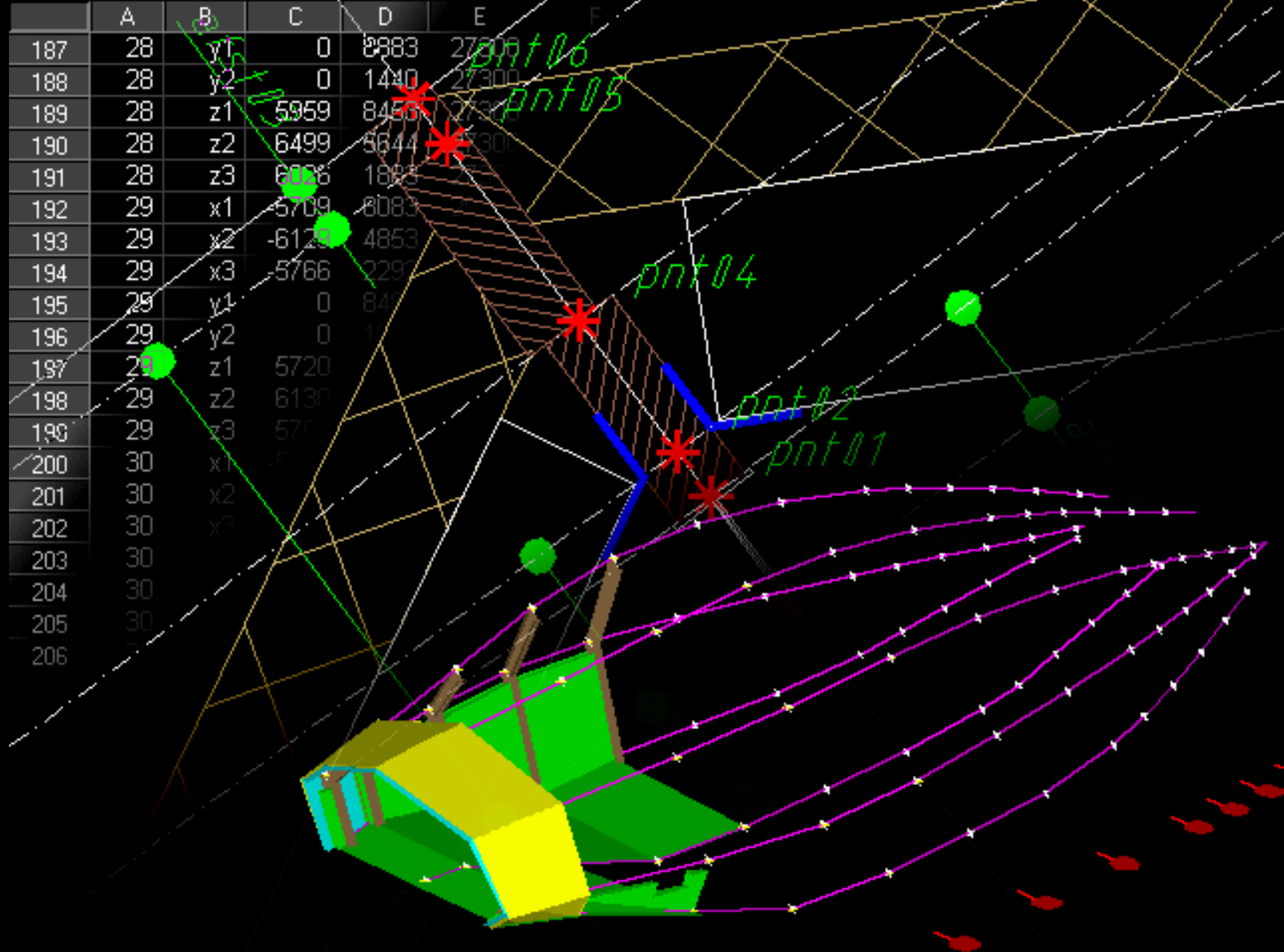
green #3 | unibody



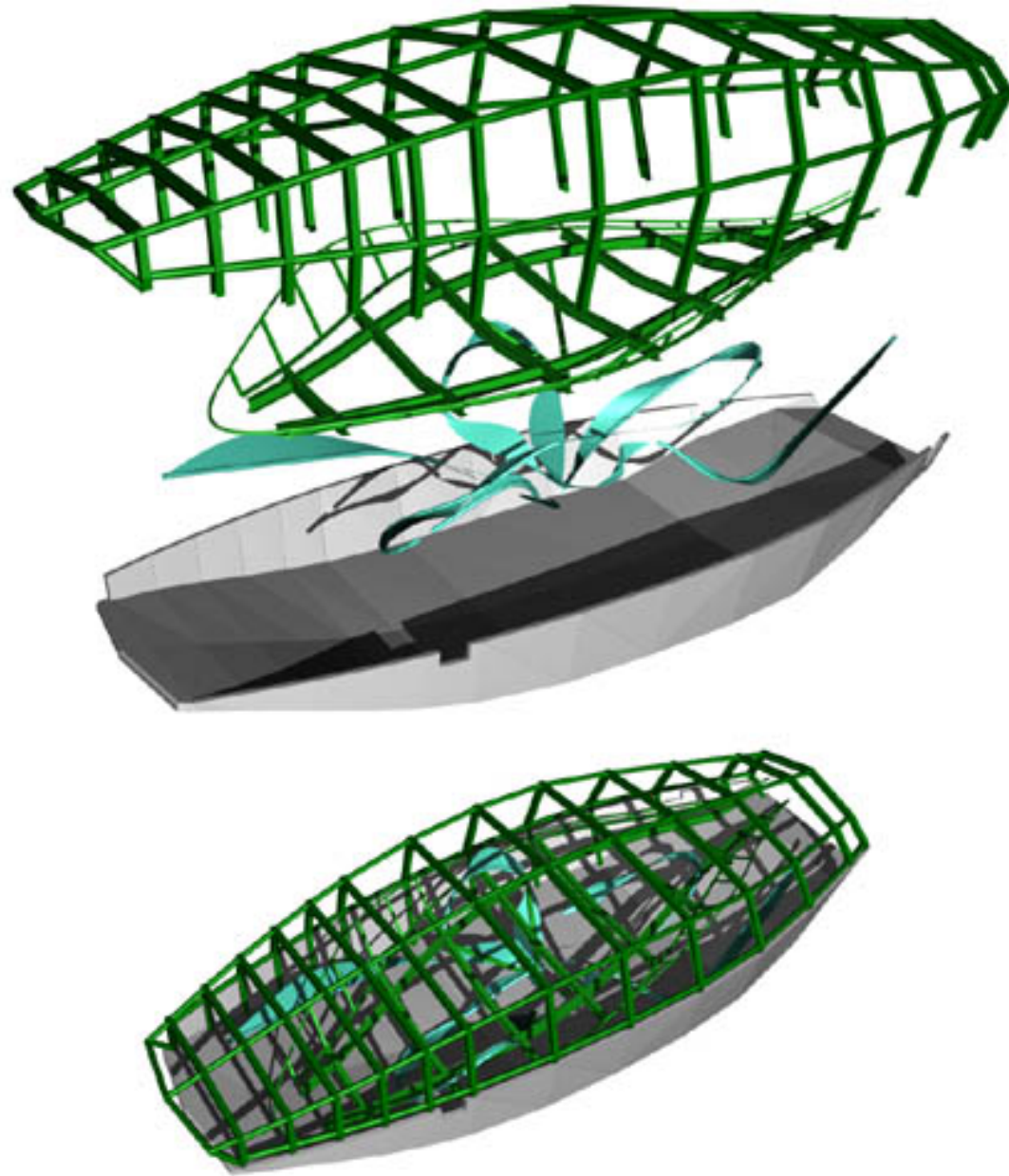




16 curves defining the shape



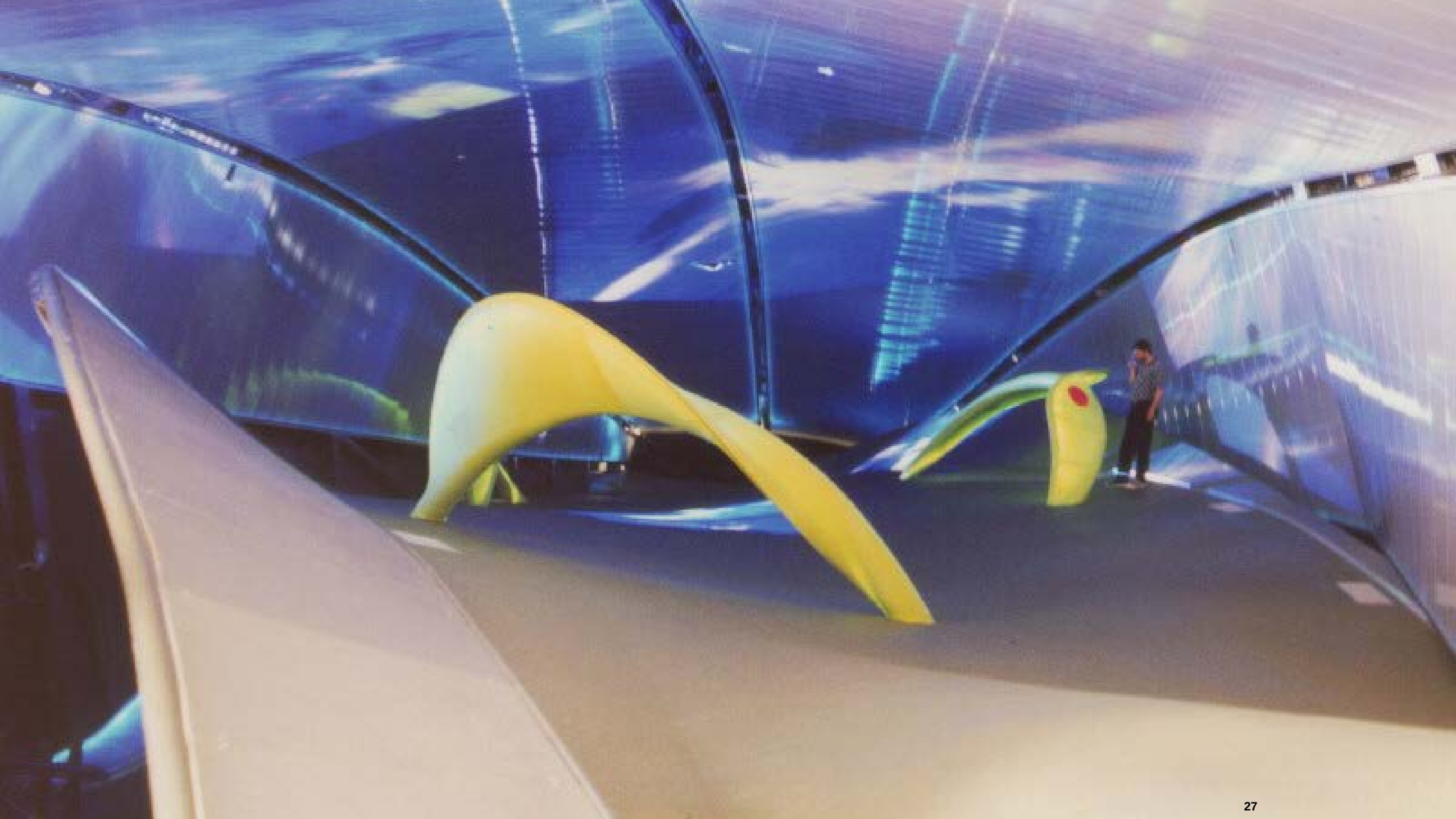
reference points



















2002 v1 | 2007 v2 | *iWEB*

green #4 | second life

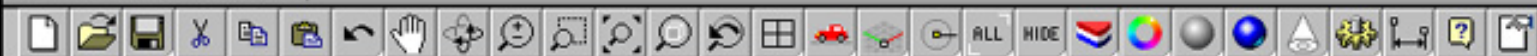




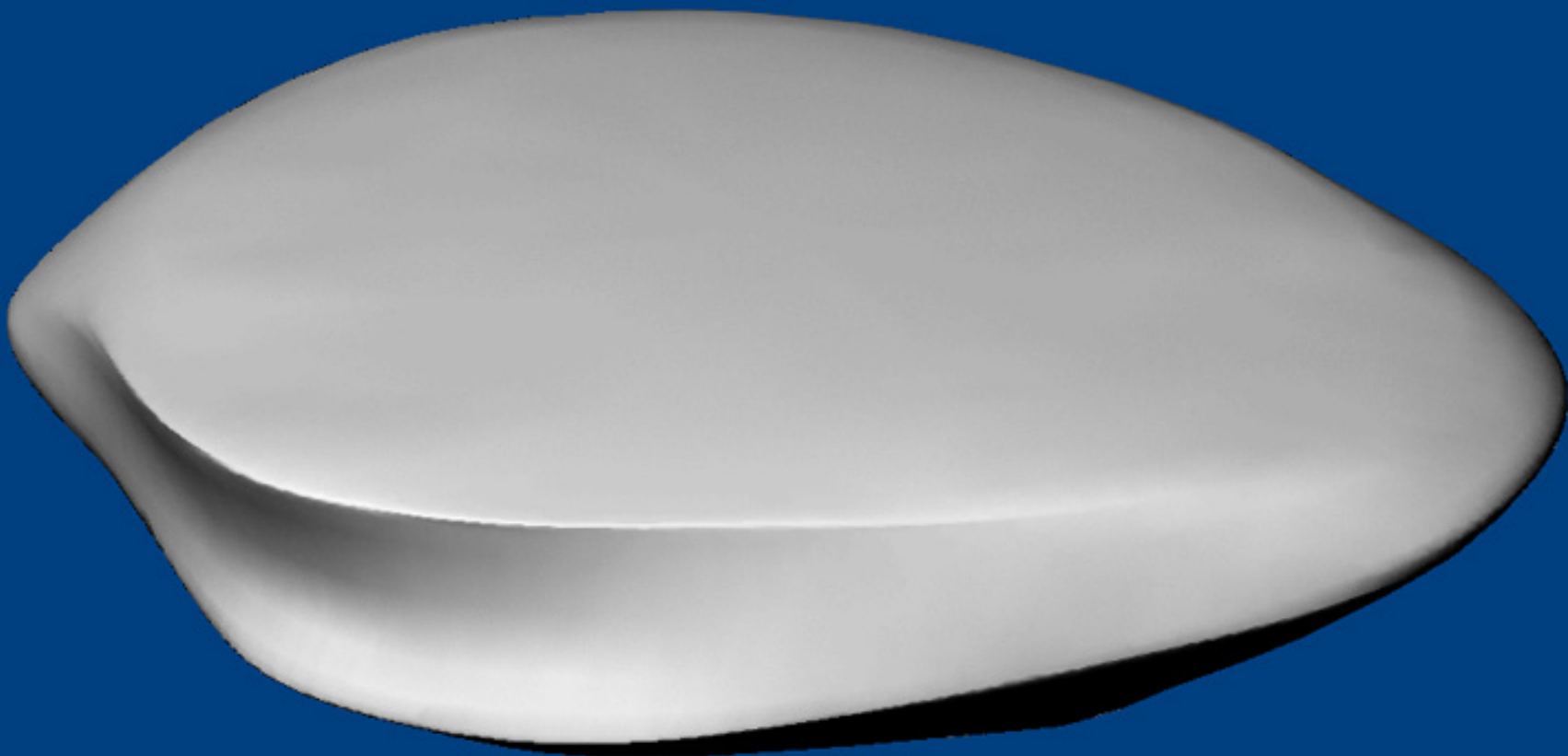
Press Enter when done: ZoomDynamic

Click and drag up and down to zoom: !

Press Enter when done:



Top



CPlane x -17.422 y -11.081 z 0

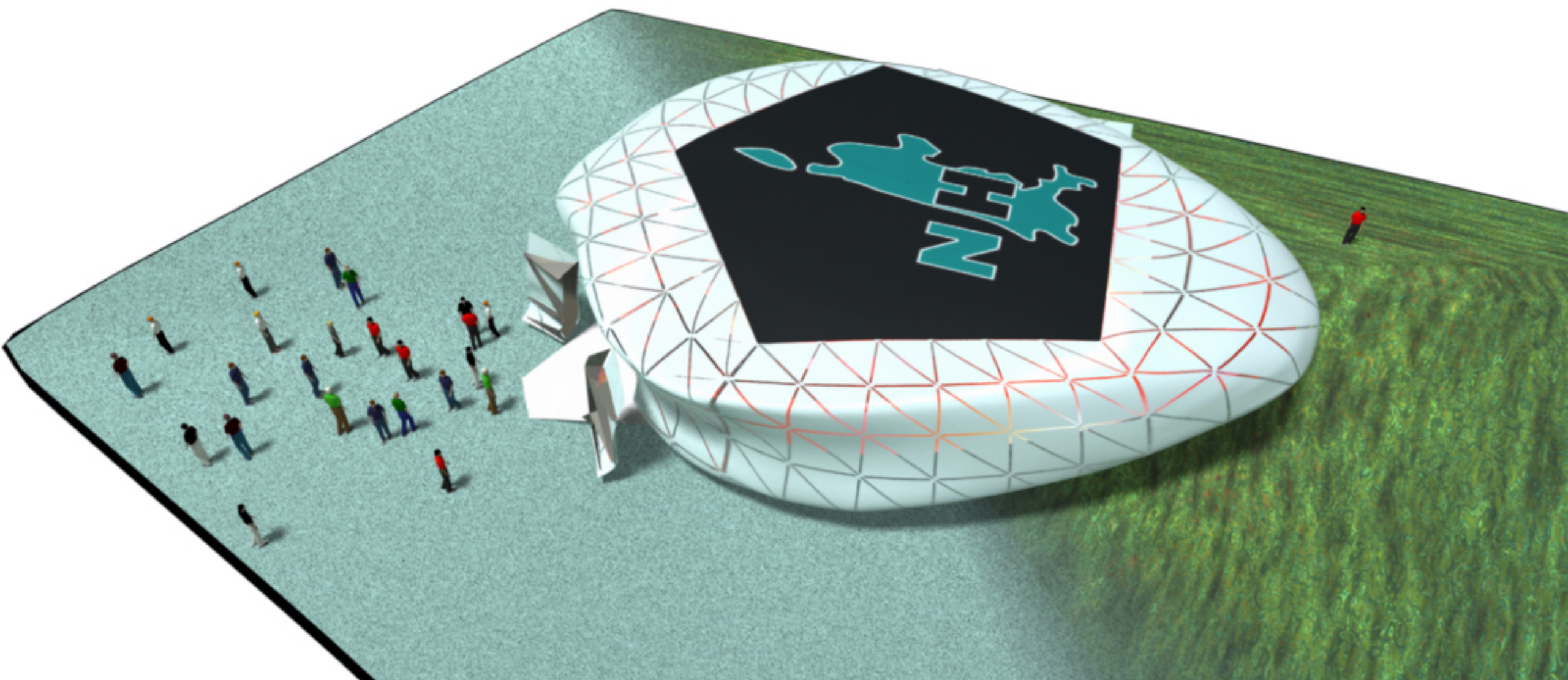
00_Skin

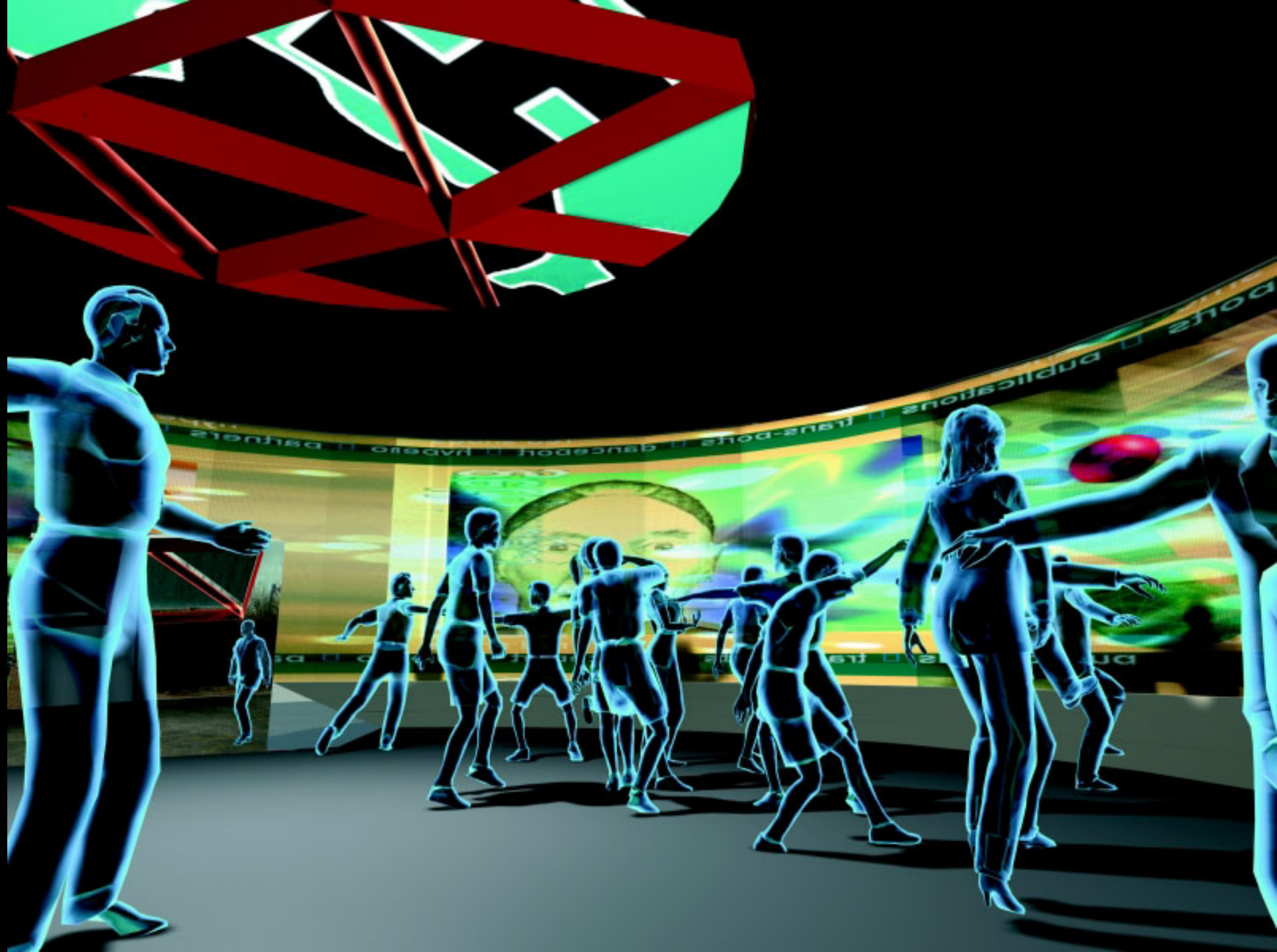
Snap

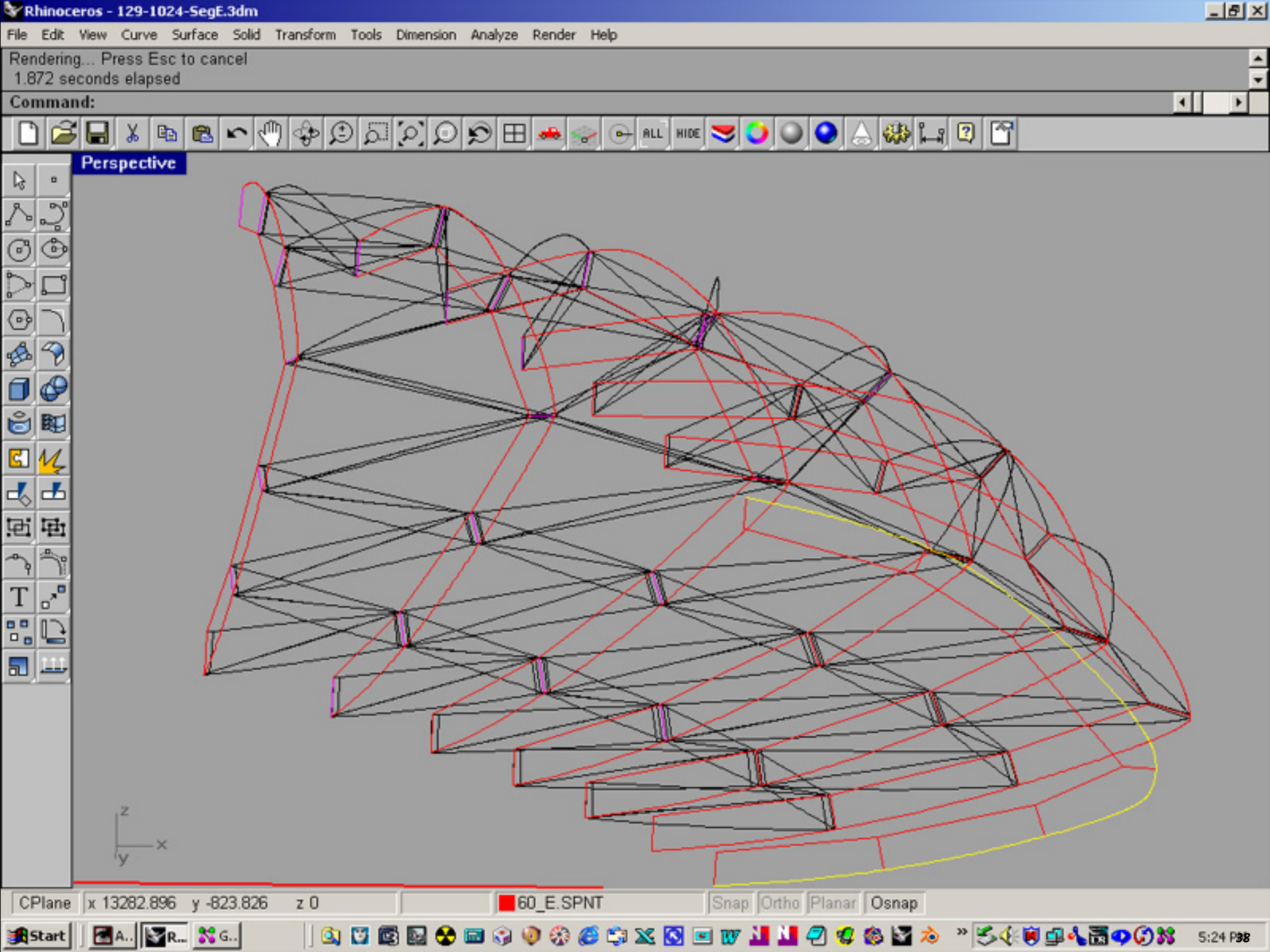
Ortho

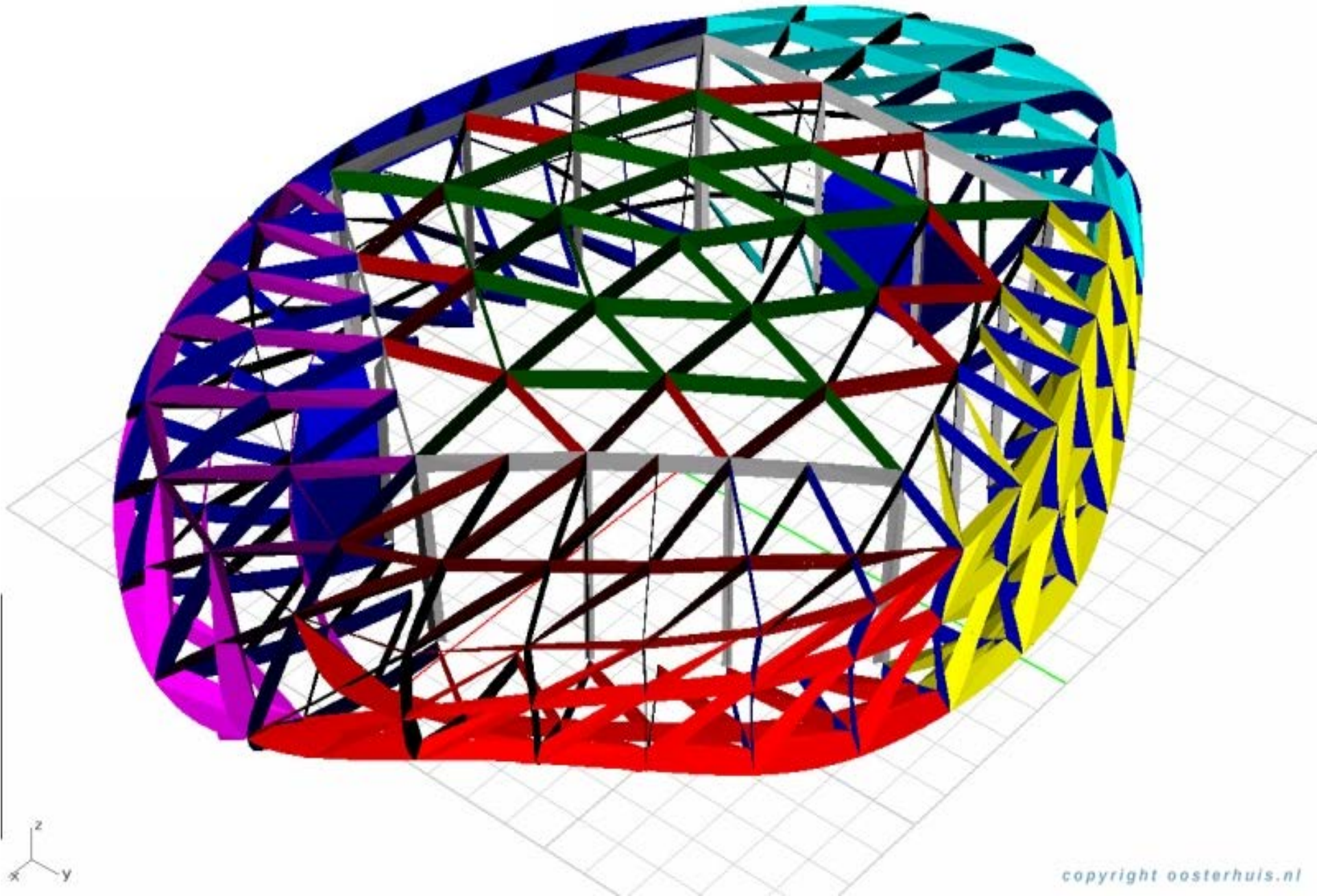
Planar

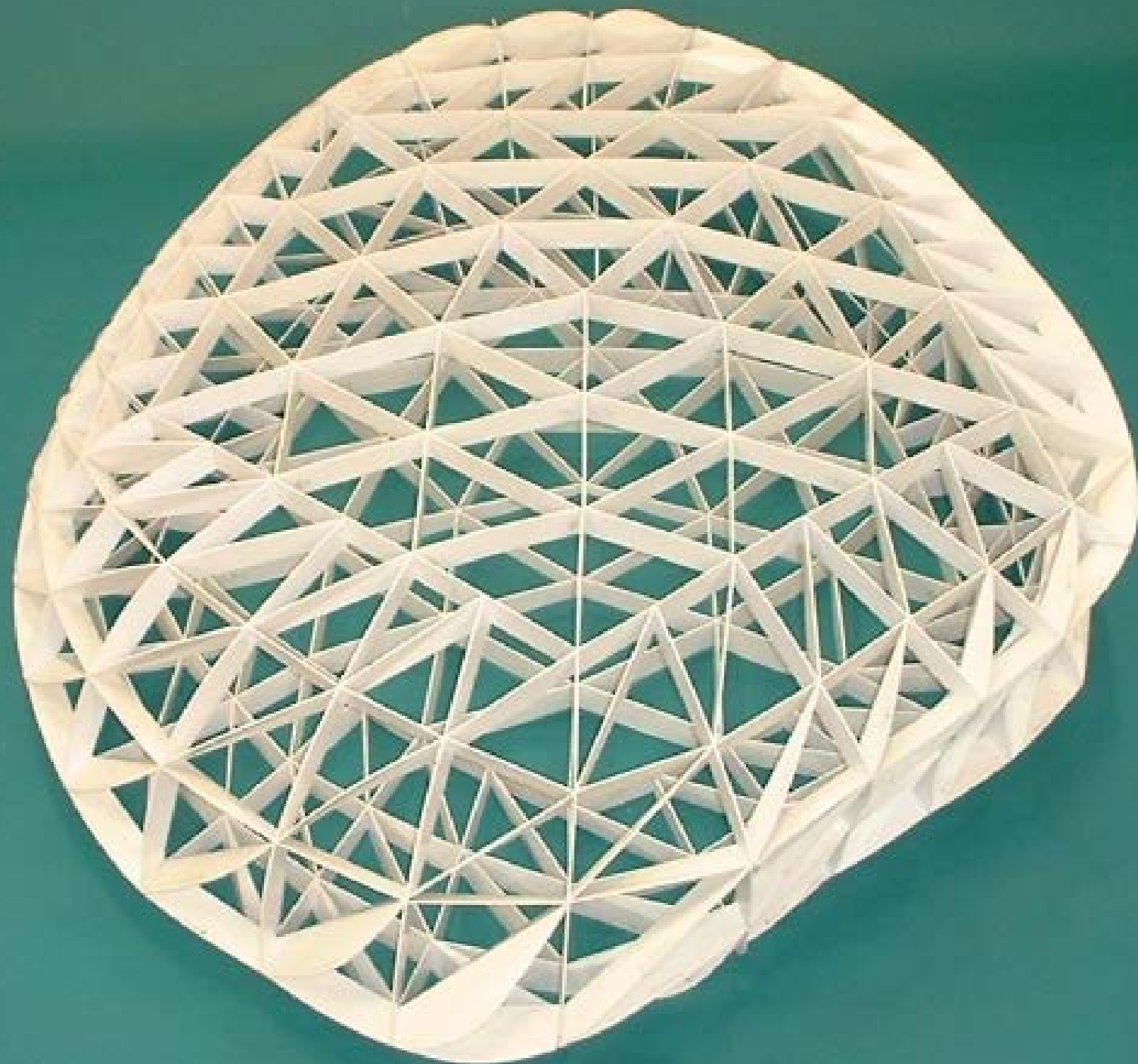
Osnap

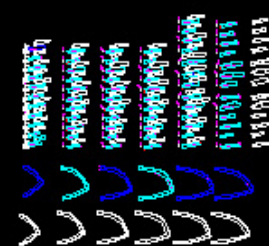


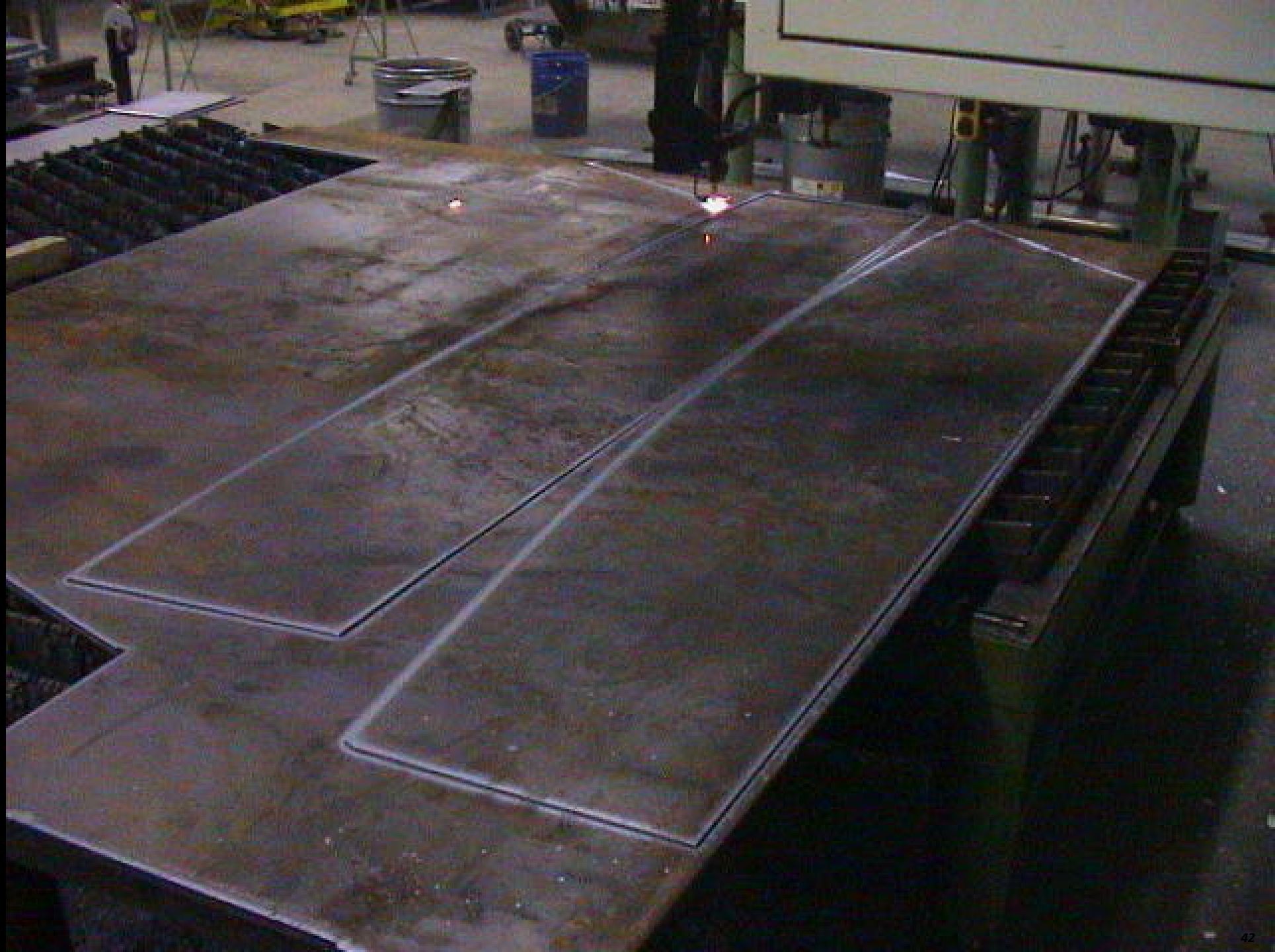




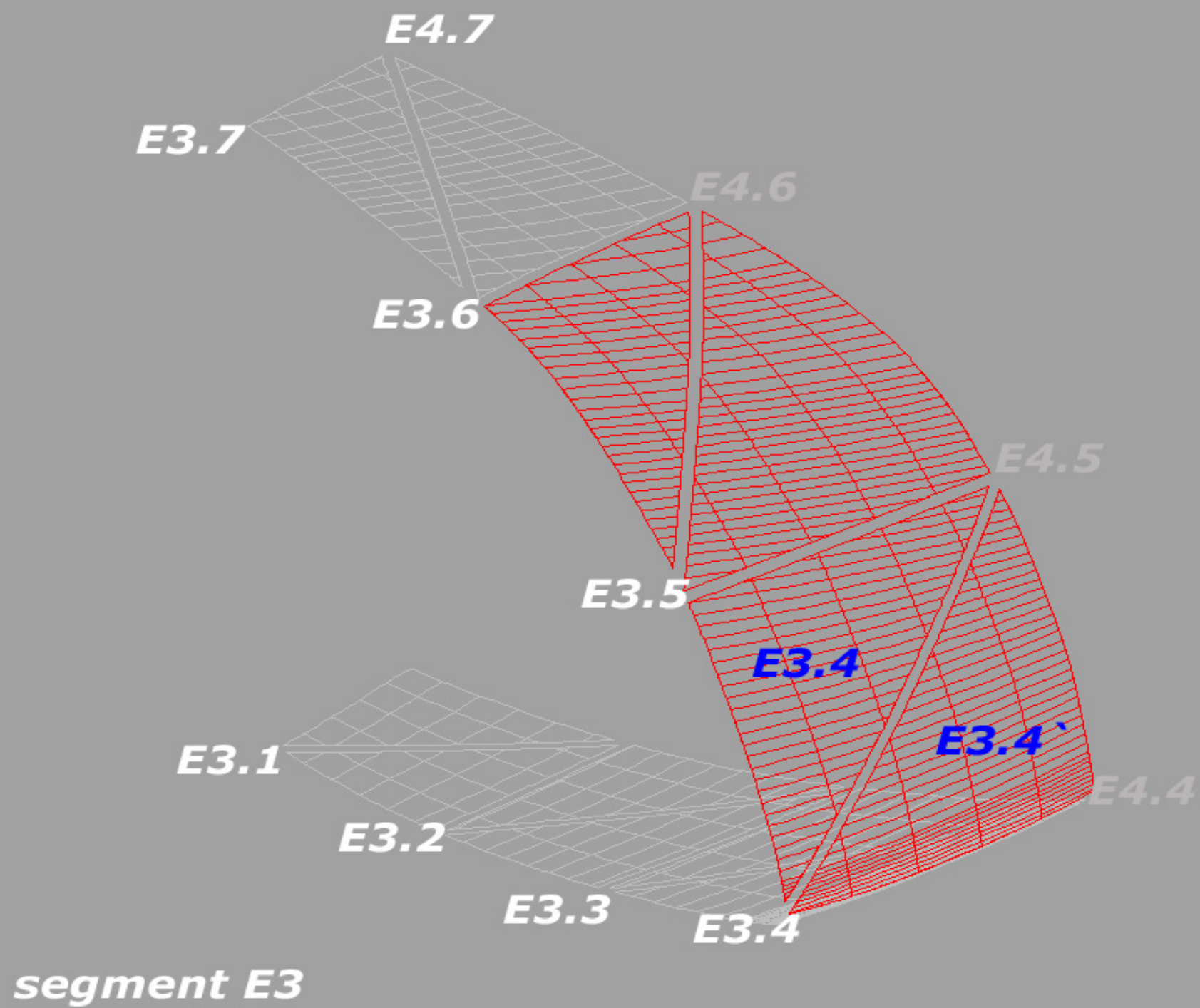
























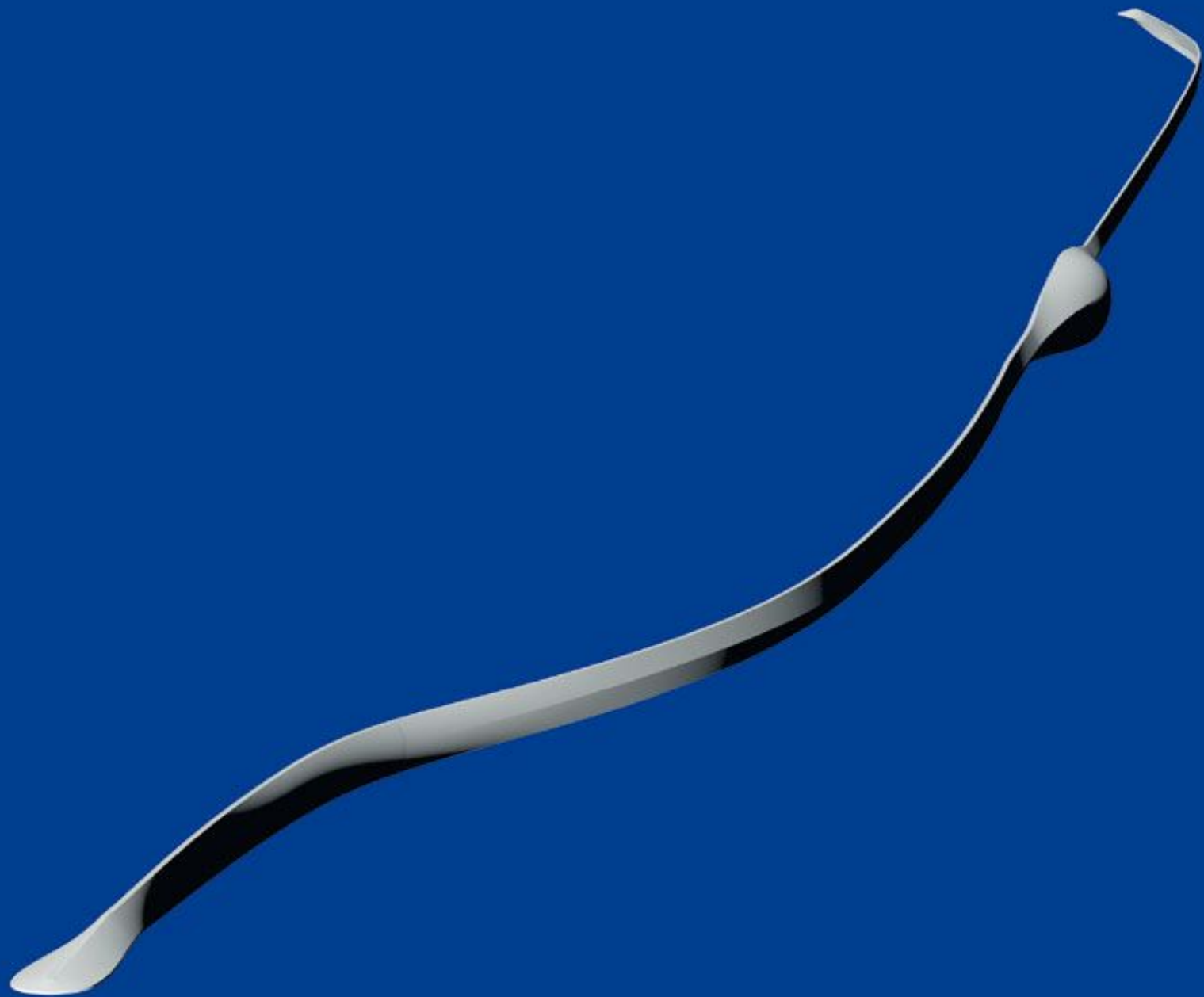


BOUWKUNDE

2005 | *A2 Cockpit*

green #5 | file to factory






```

nrc=(ceil((k*2+11+(h-1)*24)/2)+1) as integer
nrc-=1
c=nrc as string
if c.count==1 then c="0"+c

ss3.name="axis3Dglass"+c
updateshape ss3
l8.addnode ss3
ss3.wirecolor=l8.wirecolor
}

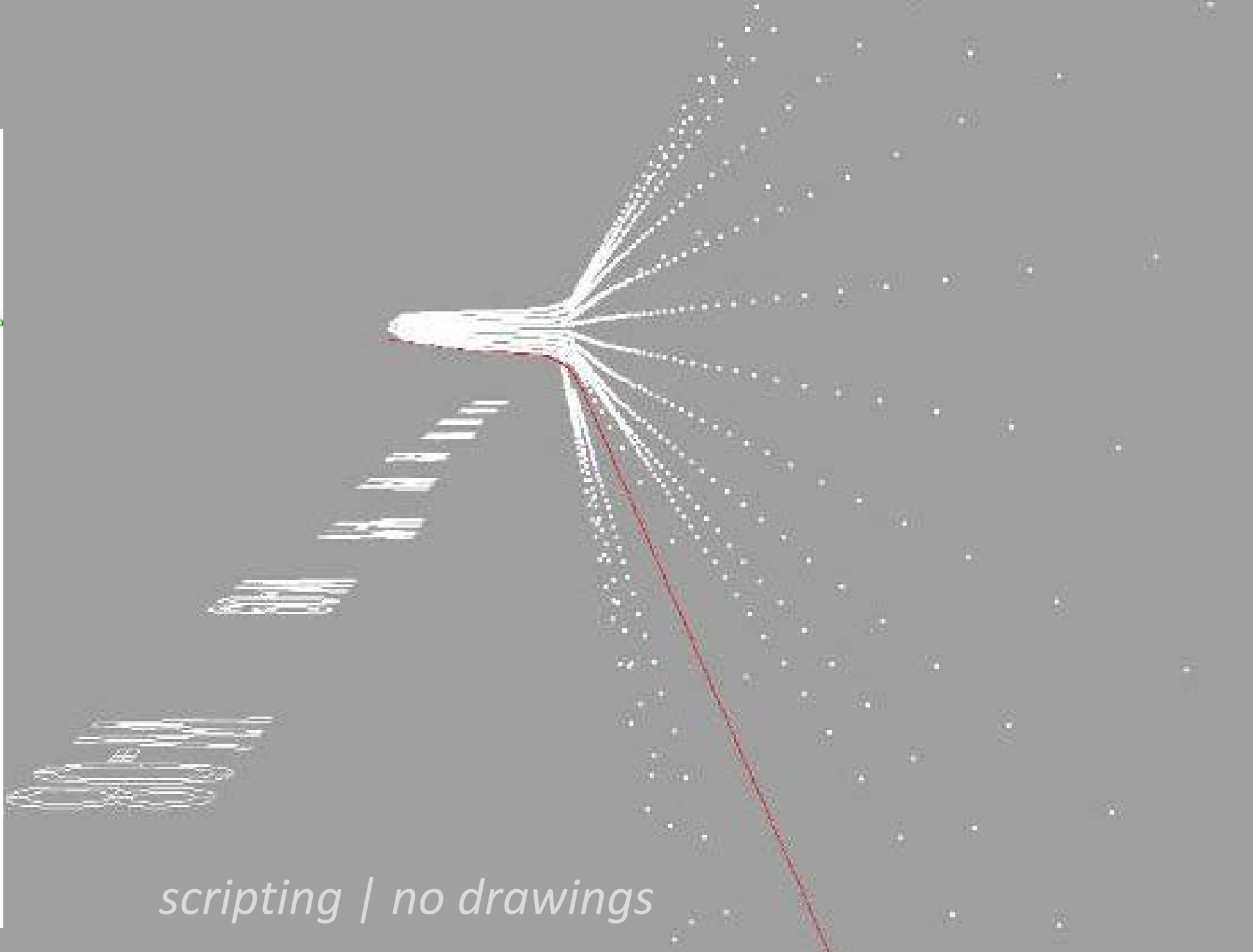
--5.5 builds closed splines into layer "p glassplates h

da2=(da^2+db^2-dc^2)/(2*da)
dh=sqrt(abs(db^2-da2^2))
np1=[0.0,0.0,0.0]
np2=[da,0.0,0.0]
np3=[da2,dh,0.0]
gp1=splineshape()
addnewspline gp1
addknot gp1 1 #corner #line np1
addknot gp1 1 #corner #line np2
addknot gp1 1 #corner #line np3
addknot gp1 1 #corner #line np1
close gp1 1
updateshape gp1
gp1.wirecolor=color 0 255 0
gp1.pos.x=b[2][1].pos.x+(k-1)*3500
gp1.pos.z=b[1][1].pos.z
move gp1 [0,(2000+1500*(g-1)),0]

la2=(la^2+lb^2-lc^2)/(2*la)
lh=sqrt(abs(lb^2-la2^2))
np1=[0.0,0.0,0.0]
np2=[la,0.0,0.0]
np3=[la2,-lh,0.0]
gp2=splineshape()
addnewspline gp2
addknot gp2 1 #corner #line np1
addknot gp2 1 #corner #line np2
addknot gp2 1 #corner #line np3
addknot gp2 1 #corner #line np1
close gp2 1
updateshape gp2
gp2.wirecolor=color 0 255 0
gp2.pos.x=b[2][1].pos.x+(k-1)*3500
gp2.pos.z=b[1][1].pos.z
move gp2 [0,(2500+1500*g),0]

if k!=1 then

```



scripting / no drawings



W 1 8 A 2 4



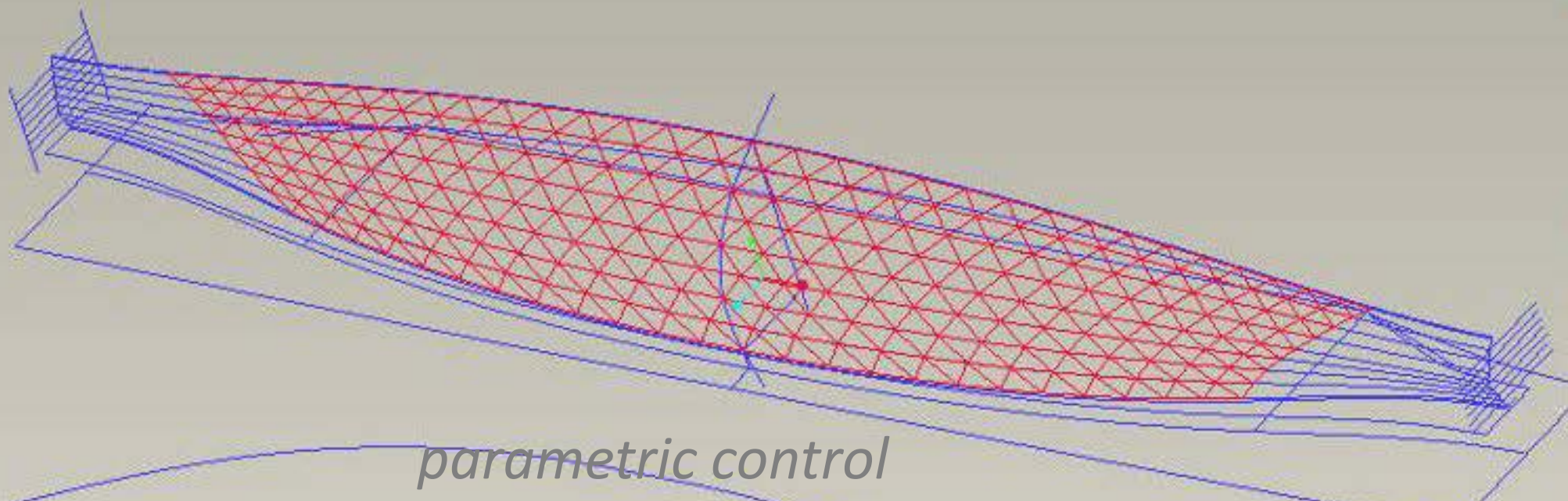
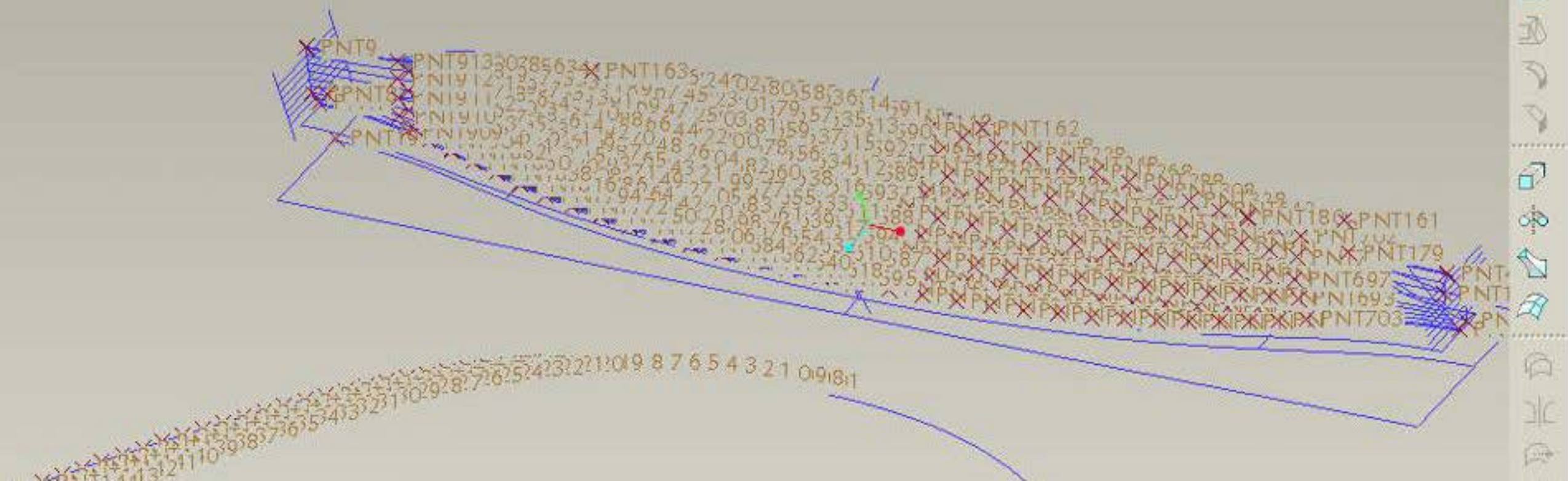
40.000 unique ID's



dry assembly_30m a day



deisgn concept A2 cockpit



parametric control



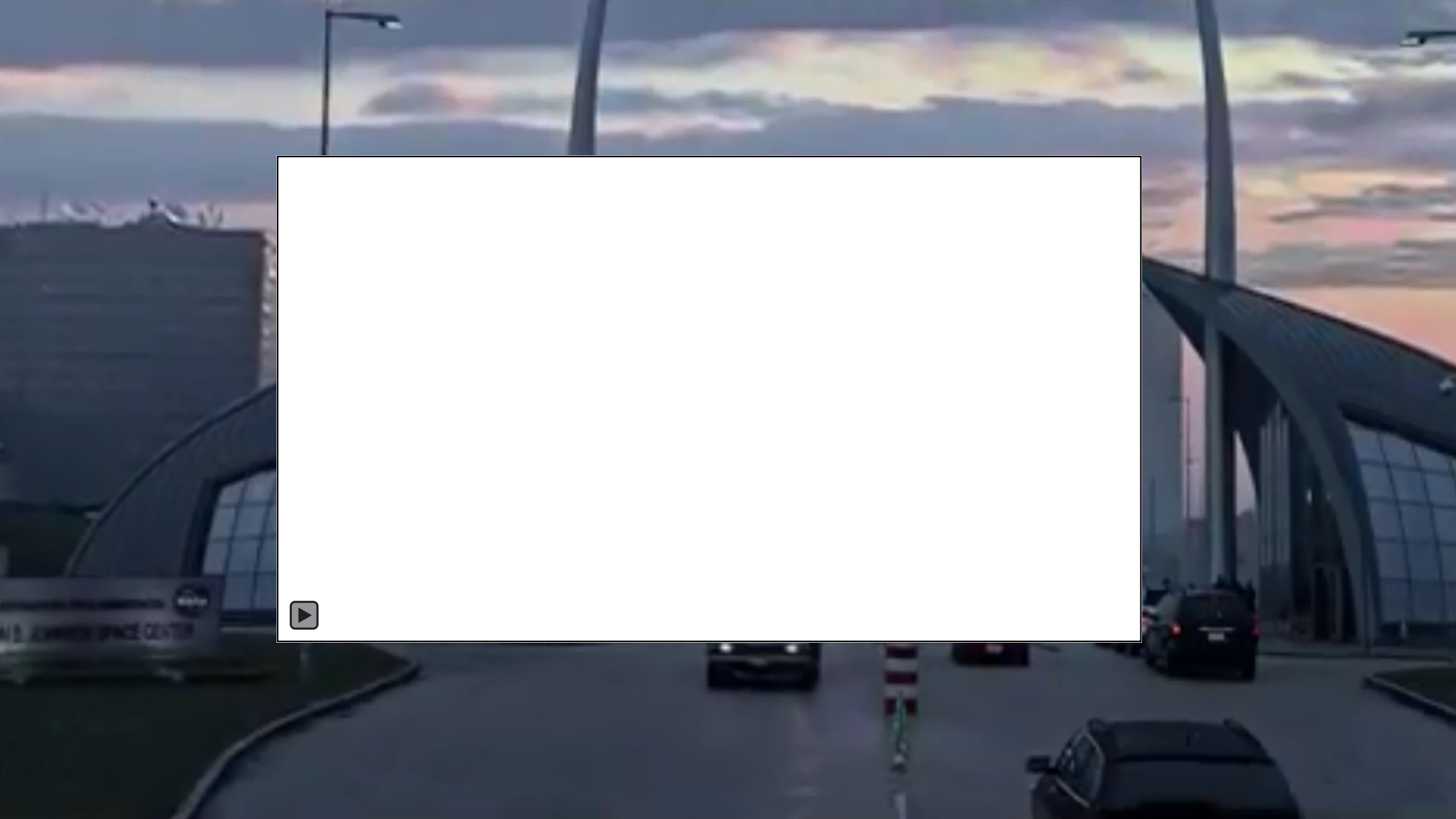
unique building components





2012 | *Bálna Budapest*

green #6 | connected working groups







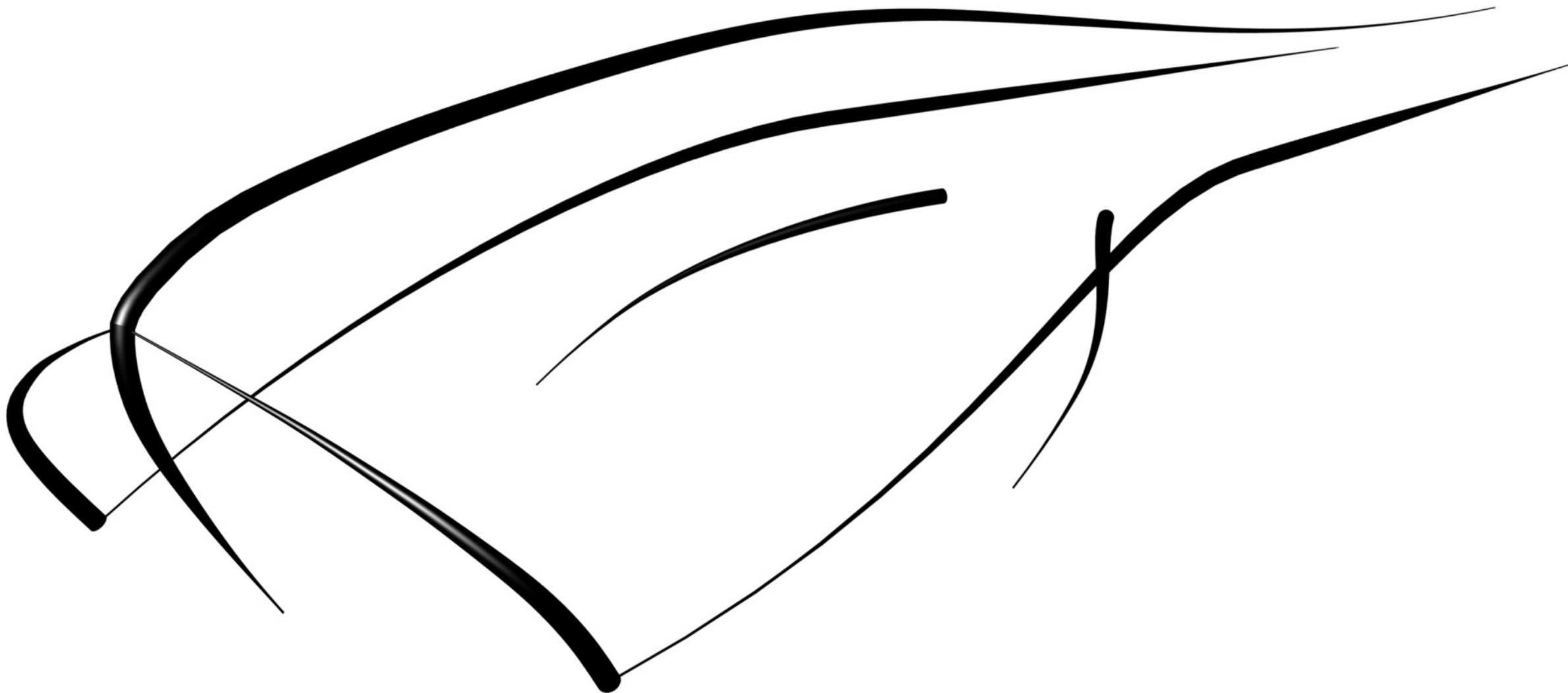
















2014 | *Liwa Tower*

green # 7 | parametric interconnectivity



مكاتب للبيجار البرج الدولي
International Tower OFFICES
600 525 526 TO LET

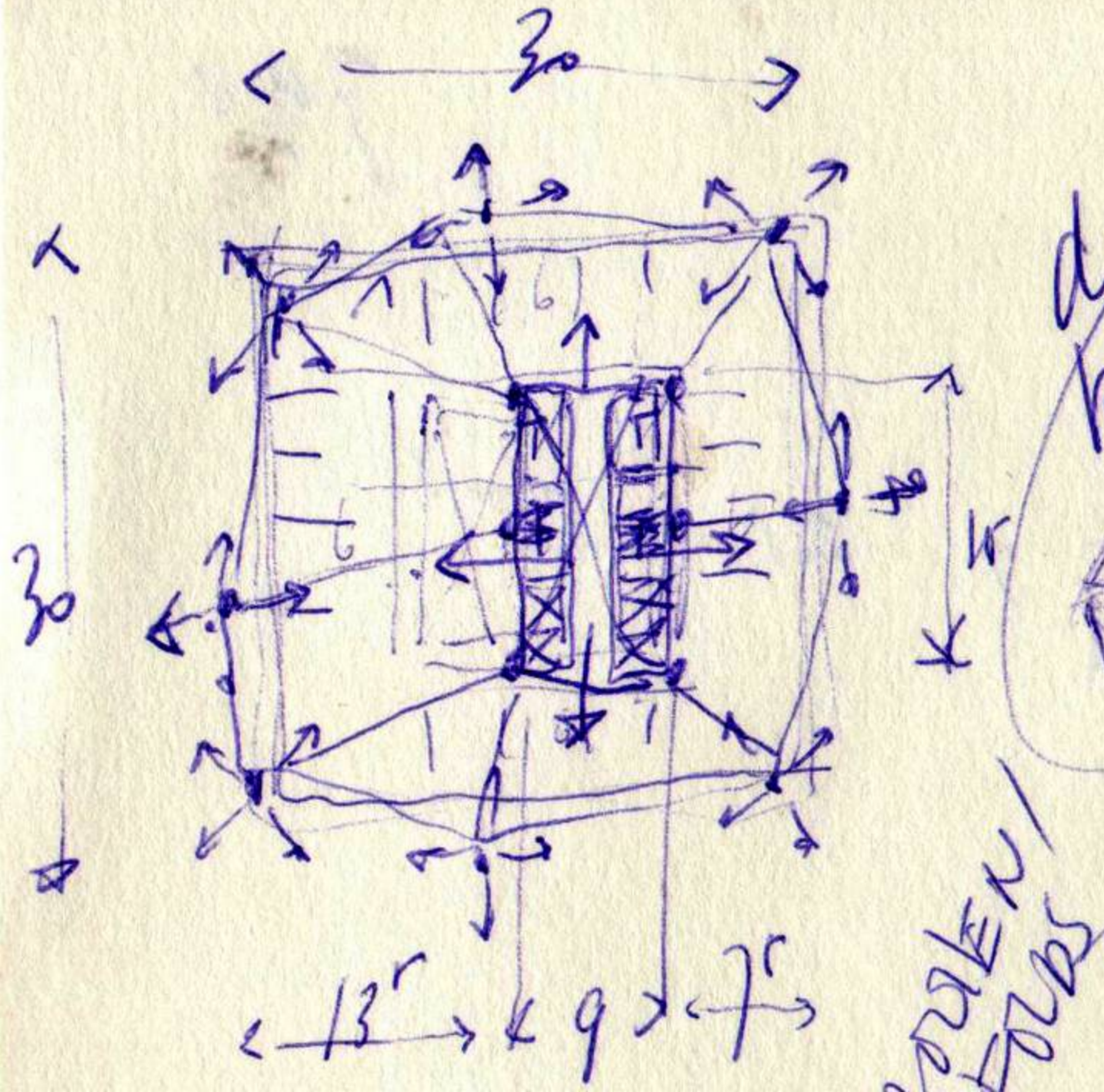
NBAD

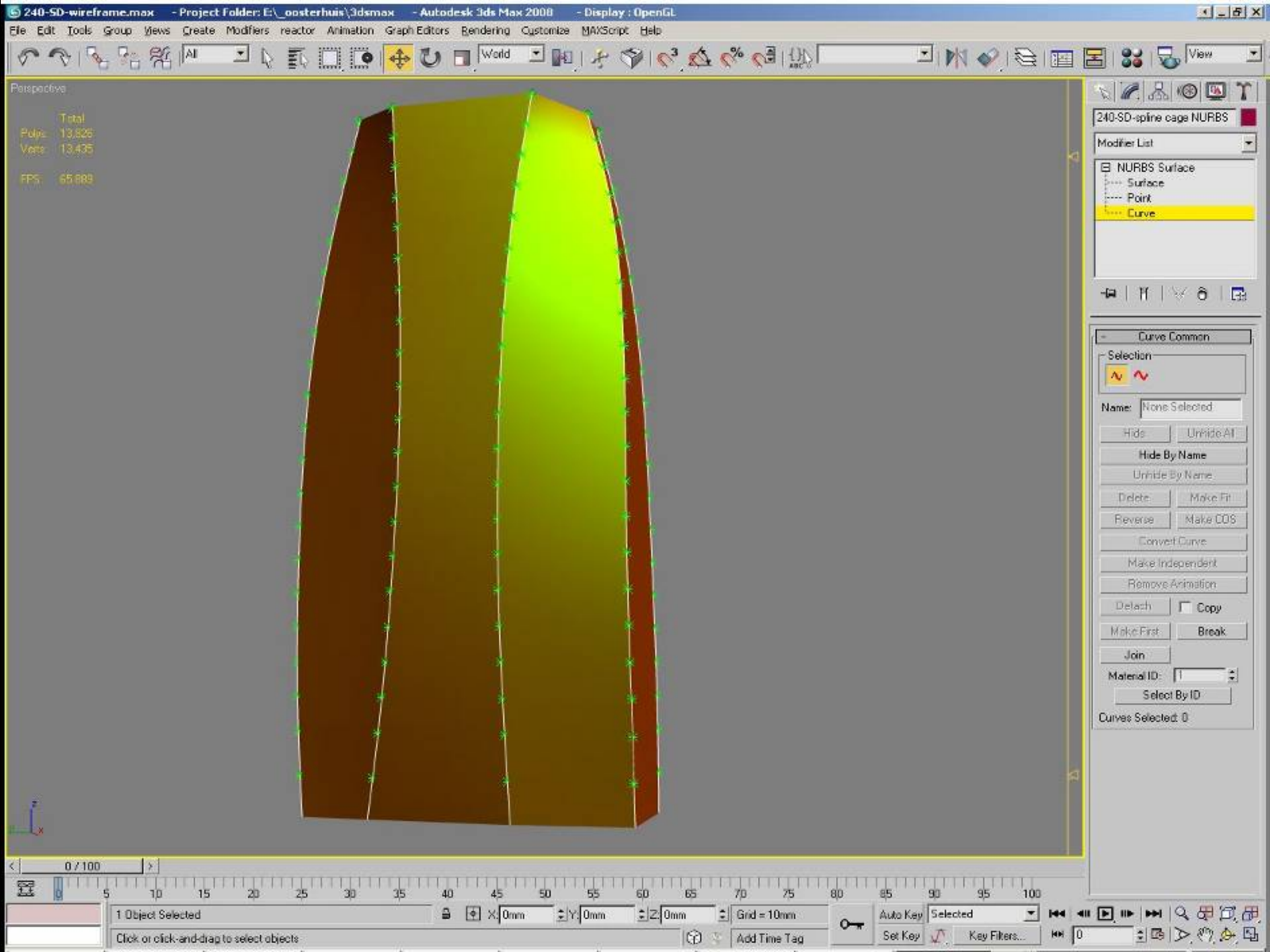
البرج الدولي
Premier Inn

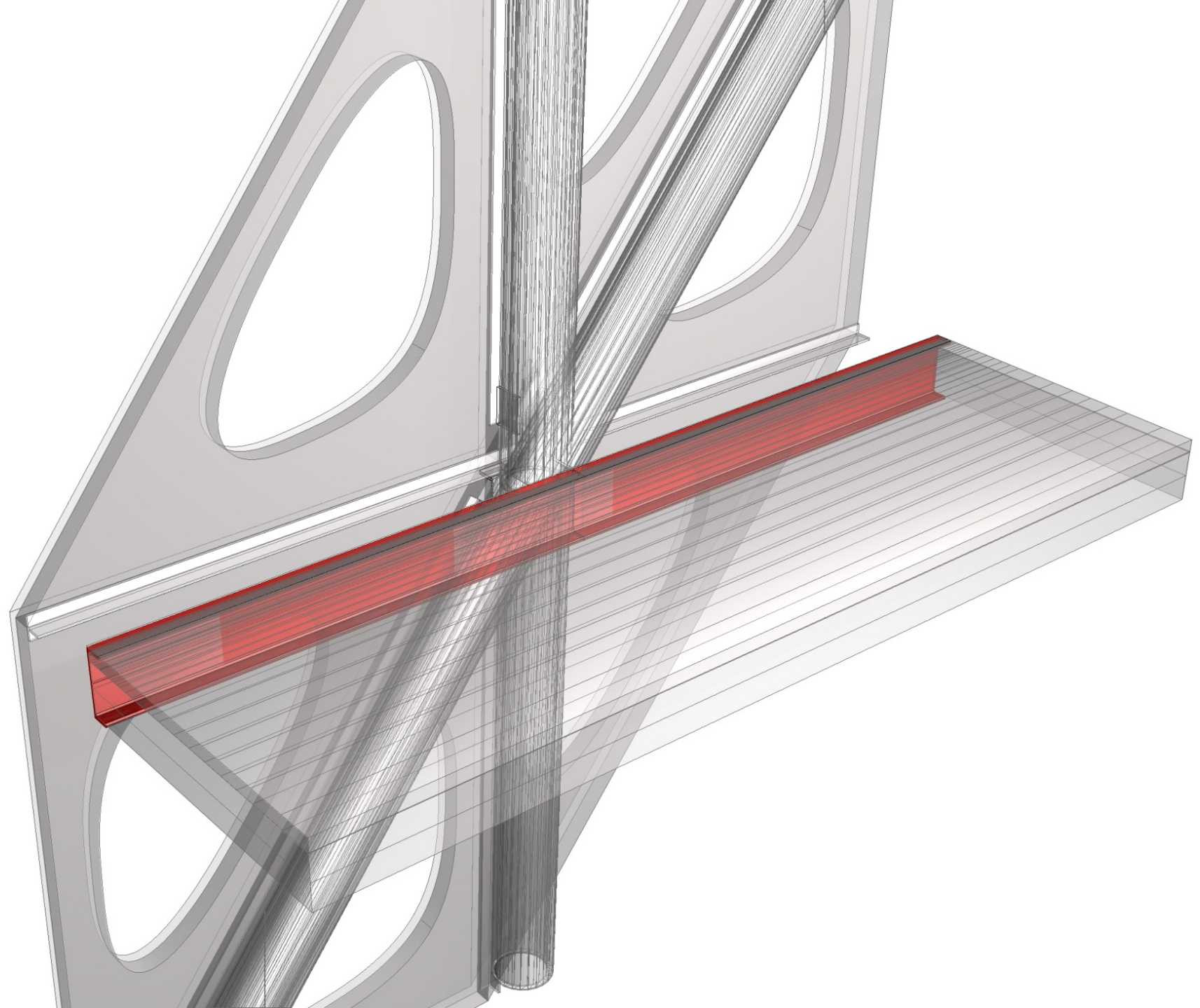
كابيتال هاوس
CAPITAL HOUSE

LIWA TOWER















بن حمودة للعقار
Hamoodah Properties

PROPERTIES FOR RENT

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green #1

fusion art and architecture

green #2

smooth spacious envelop

green #3

unibody

green #4

second life

green #5

file to factory

green #6

connected working groups

green #7

parametric interconnectivity