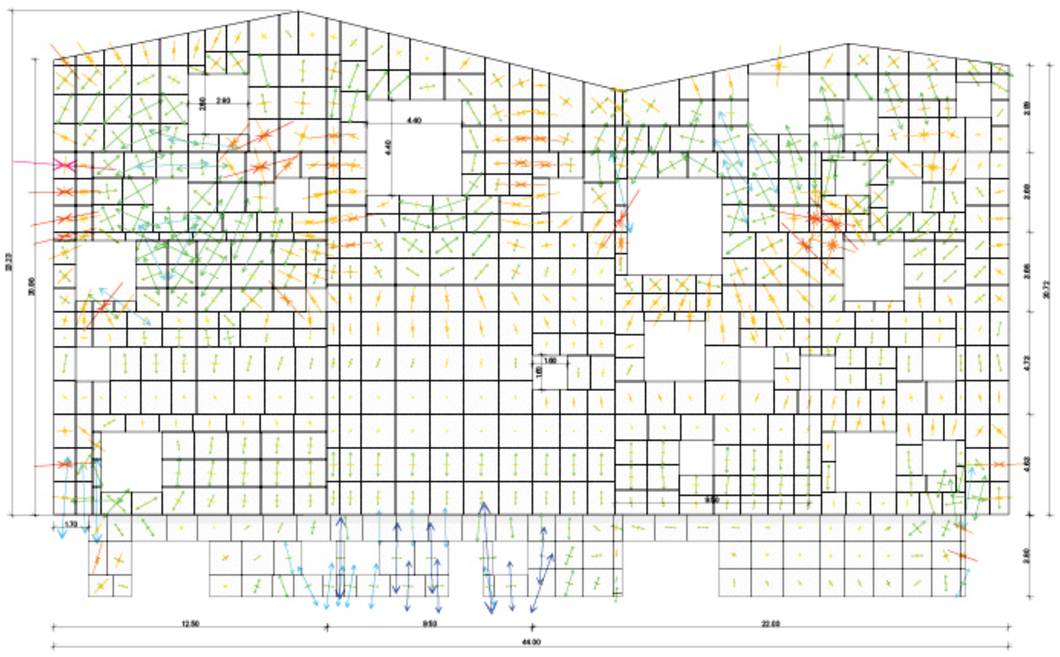


EAST façade
Sminimum and Smaximum wind in X axis (pressure)
1:200

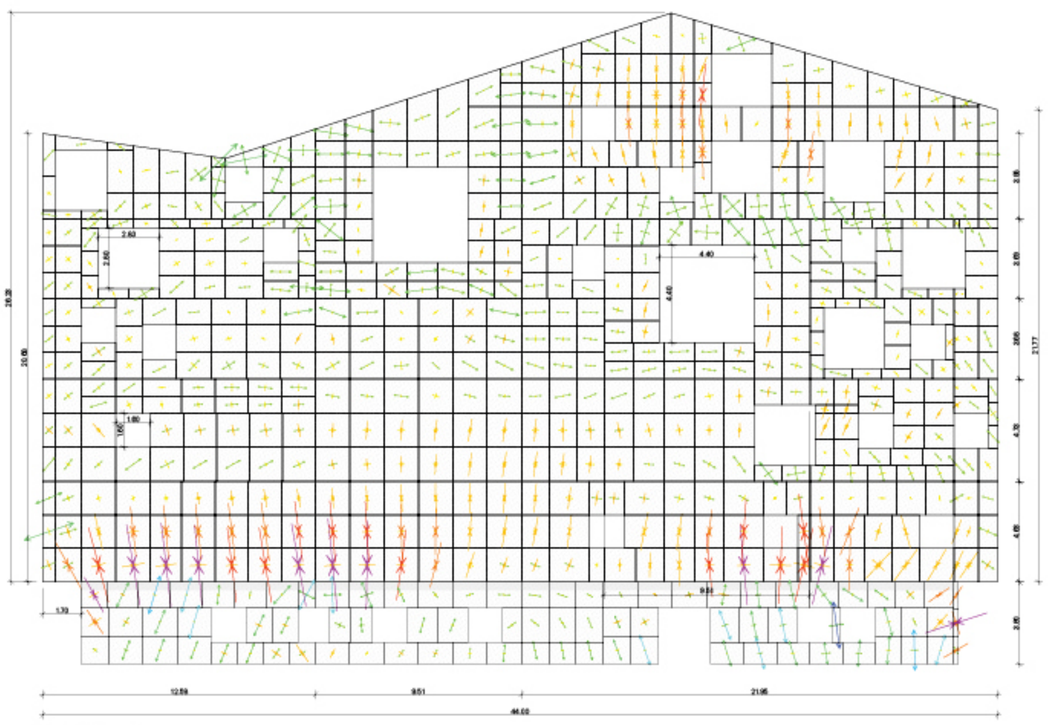
EAST facade
ELEMENT STRESSES AREA SHELLS
Representative data max&min.

Area element	7839 | 7812
Shell-Type	Shell-thick | Shell-thick
OutputCase	C_wind X(-) | C_wind X(-)
CaseType	LinStatic | LinStatic
S11 Top Tonf/m2	-11.60 | 10.26
S22 Top Tonf/m2	-22.71 | 14.01
S12 Top Tonf/m2	5.21 | 0.39
SMax Top Tonf/m2	-9.60 | 14.05
SMin Top Tonf/m2	**-21.76 | 24.2**
SAngle Top Degrees	21.60 | 84.11
S11 Bot. Tonf/m2	11.27 | -11.02
S22 Bot. Tonf/m2	21.63 | -13.18
S12 Bot. Tonf/m2	-5.19 | -1.09
SMax Bot. Tonf/m2	23.78 | -10.67
SMin Bot. Tonf/m2	9.11 | -13.64
SAngle Bot. Degrees	-67.46 | -22.66
S13 Avg. Tonf/m2	-0.61 | 0.07
S23 Avg. Tonf/m2	2.22 | 0.31
SMax Avg. Tonf/m2	2.28 | 0.32
SAngle Avg. Degrees	103.01 | 76.62

NORTH façade
Sminimum and Smaximum wind in Y axis (suction)
1:200

NORTH facade
ELEMENT STRESSES AREA SHELLS
Representative data max&min.

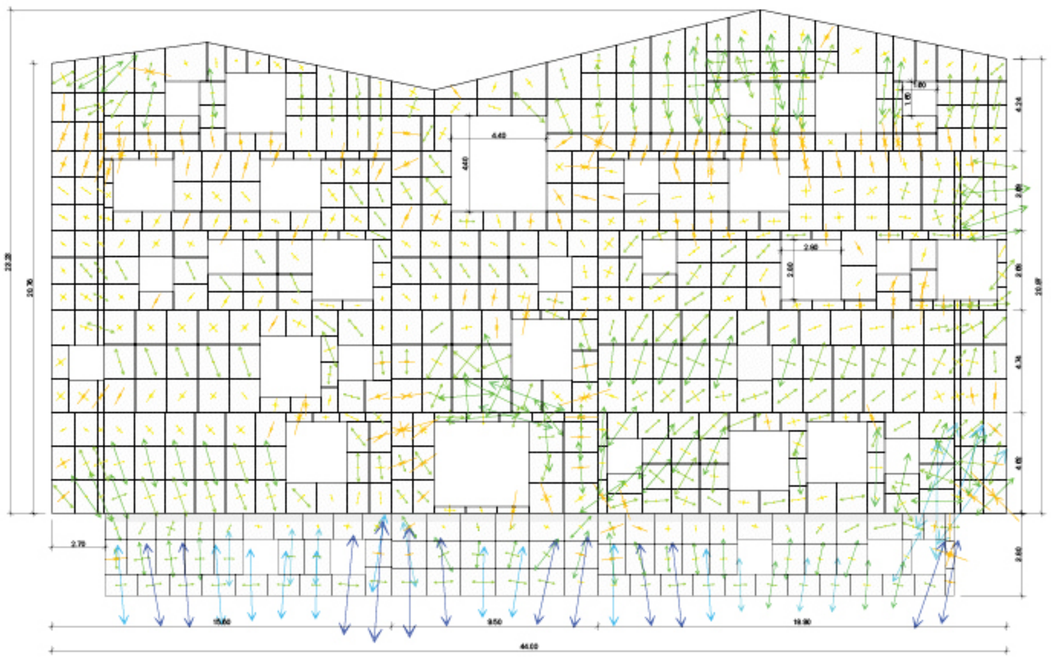
Area element	6639 | 8621
Shell-Type	Shell-thick | Shell-thick
OutputCase	C_wind Y(+) | C_wind Y(+)
CaseType	LinStatic | LinStatic
S11 Top Tonf/m2	-3.20 | 17.32
S22 Top Tonf/m2	-22.06 | 17.8
S12 Top Tonf/m2	-3.72 | -1.49
SMax Top Tonf/m2	-2.49 | 19.07
SMin Top Tonf/m2	**-22.77 | 16.05**
SAngle Top Degrees	-10.78 | -49.60
S11 Bot. Tonf/m2	5.24 | -116.23
S22 Bot. Tonf/m2	16.06 | -18.69
S12 Bot. Tonf/m2	0.74 | 1.31
SMax Bot. Tonf/m2	16.12 | -14.79
SMin Bot. Tonf/m2	5.19 | -19.13
SAngle Bot. Degrees	86.09 | 18.68
S13 Avg. Tonf/m2	-0.02 | 0.78
S23 Avg. Tonf/m2	-0.94 | -0.94
SMax Avg. Tonf/m2	0.94 | 1.22
SAngle Avg. Degrees	-91.63 | -50.19



WEST façade
Sminimum and Smaximum wind in X axis (suction)
1:200

WEST facade
ELEMENT STRESSES AREA SHELLS
Representative data max&min.

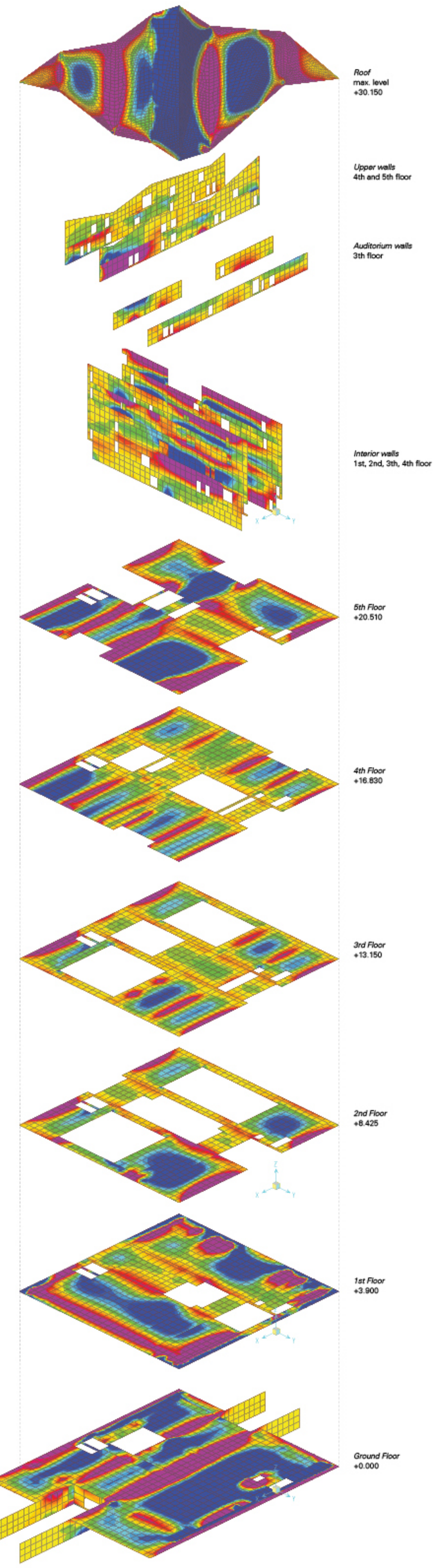
Area element	8948 | 9105
Shell-Type	Shell-thick | Shell-thick
OutputCase	C_wind X(+) | C_wind X(+)
CaseType	LinStatic | LinStatic
S11 Top Tonf/m2	-6.40 | 12.70
S22 Top Tonf/m2	-17.46 | 9.55
S12 Top Tonf/m2	-9.44 | -4.44
SMax Top Tonf/m2	-0.99 | 15.83
SMin Top Tonf/m2	**-22.87 | 6.42**
SAngle Top Degrees	-29.81 | -36.20
S11 Bot. Tonf/m2	0.51 | -8.37
S22 Bot. Tonf/m2	9.21 | -3.19
S12 Bot. Tonf/m2	-3.65 | 1.25
SMax Bot. Tonf/m2	10.53 | -2.91
SMin Bot. Tonf/m2	-0.83 | -8.66
SAngle Bot. Degrees	-70.02 | 72.13
S13 Avg. Tonf/m2	-0.26 | -0.49
S23 Avg. Tonf/m2	0.48 | 0.54
SMax Avg. Tonf/m2	0.54 | 0.73
SAngle Avg. Degrees	118.75 | 132.32



SOUTH façade
Sminimum and Smaximum wind in Y axis (pressure)
1:200

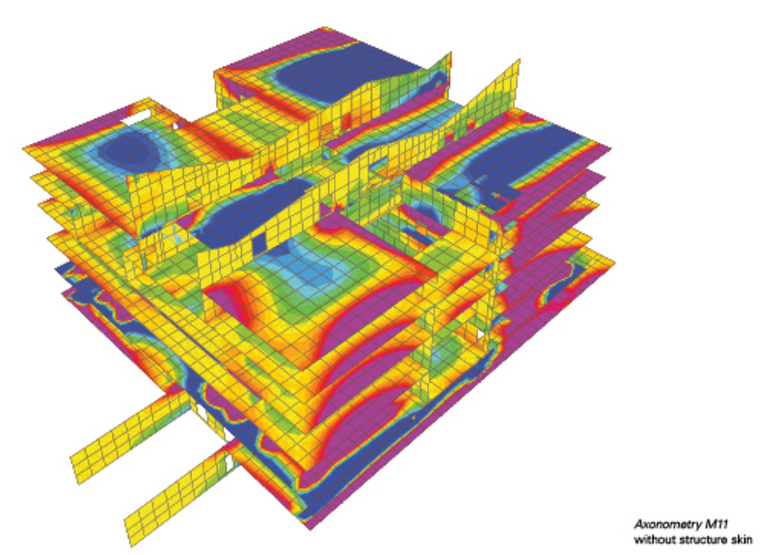
SOUTH facade
ELEMENT STRESSES AREA SHELLS
Representative data max&min.

Area element	9690 | 9571
Shell-Type	Shell-thick | Shell-thick
OutputCase	C_wind Y(-) | C_wind Y(-)
CaseType	LinStatic | LinStatic
S11 Top Tonf/m2	6.92 | 16.32
S22 Top Tonf/m2	-7.26 | 19.78
S12 Top Tonf/m2	-5.52 | 3.17
SMax Top Tonf/m2	-8.37 | 21.66
SMin Top Tonf/m2	**-9.20 | 21.44**
SAngle Top Degrees	-19.46 | 69.33
S11 Bot. Tonf/m2	7.77 | -18.07
S22 Bot. Tonf/m2	14.94 | -16.64
S12 Bot. Tonf/m2	-13.10 | -9.64
SMax Bot. Tonf/m2	24.94 | -7.68
SMin Bot. Tonf/m2	-2.23 | -27.02
SAngle Bot. Degrees	-52.65 | -47.12
S13 Avg. Tonf/m2	-0.18 | -1.27
S23 Avg. Tonf/m2	0.69 | 0.36
SMax Avg. Tonf/m2	0.71 | 1.32
SAngle Avg. Degrees	104.68 | 164.28



-50,0 -42,3 -34,6 -26,9 -19,2 -11,5 -3,8 3,8 11,5 19,2 26,9 34,6 42,3 50,0

SAP 2000 v15.1 - Resultant M22 Diagram - (ELS1) - KN, m, c Units.



Axonometry M11
without structure skin

-25,0 -21,2 -17,3 -13,5 -9,6 -5,8 -1,9 1,9 5,8 9,6 13,5 17,3 21,2 25,0

SAP 2000 v15.1 - Resultant SMAX and SMIN Arrows - Top face (C_wind) - Tonf, m, c Units.

-50,0 -42,3 -34,6 -26,9 -19,2 -11,5 -3,8 3,8 11,5 19,2 26,9 34,6 42,3 50,0

SAP 2000 v15.1 - Resultant M11 Diagram - (ELS1) - KN, m, c Units.