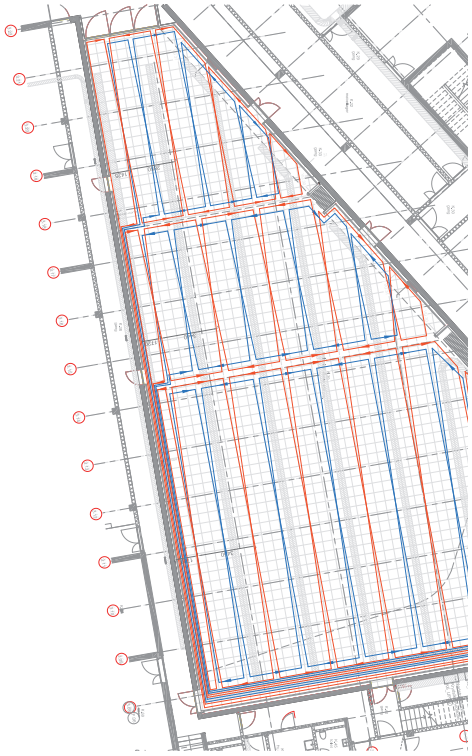
# Case Study

## UN Green Headquarters, Copenhagen, Denmark

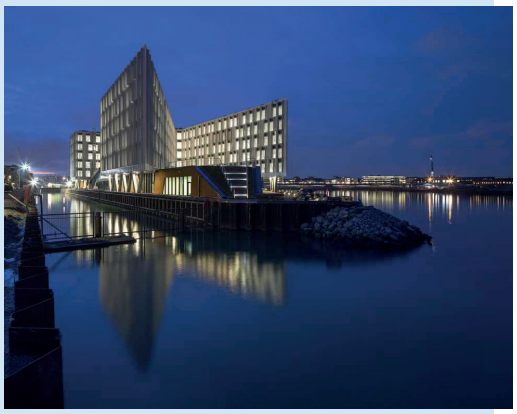



## Summary

The UN City complex in Copenhagen's Free Port, which will form the central location for all United Nations organizations based in Copenhagen, demonstrates the United Nations' commitment to promote environmental sustainability through green building.

Designed by Danish architect firm 3XN, the new office complex contains a number of energy-reducing and eco-friendly features that control the amount of energy used for heating, cooling, lighting and ventilation.

Three auditoriums and three meeting rooms have been equipped with SLS loop systems, facilitating for many of the UN staff and visitors with hearing aids.

## Challenge

The large auditorium can be used as one large open space with chairs (no fixed seating rows) or be divided by folding walls at two positions along the rear wall, making it possible to use three smaller auditoriums. The challenge was to design the loop systems allowing each of the three auditoriums to work simultaneously without creating overspill into the adjacent auditorium. Yet it was essential that when using the complete area as one large open auditorium, the "gaps" between the three systems should be restricted to a minimum, making it possible to sit virtually anywhere without experiencing any dramatic loss of signal strength.

When designing the loops in the three adjacent meeting rooms, very much the same challenge was faced: Three adjacent rooms could be combined into one large meeting room by rolling in the folding walls.

## Solution

**Auditoriums**

Any other loop design than a carefully carried out SLS loop system was out of the questions. The delicate balance was to find the right segment size to attenuate the

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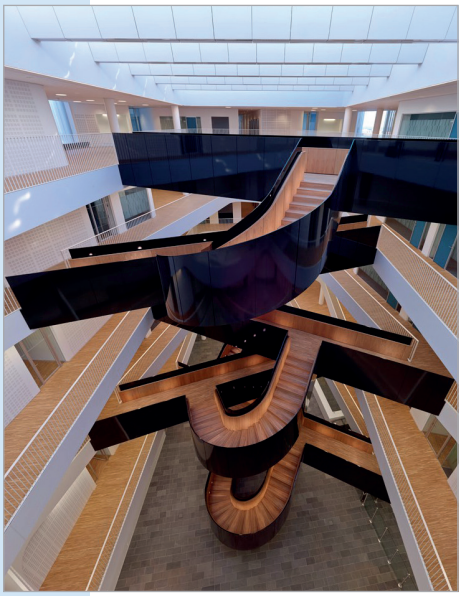
overspill enough to allow the users of the adjacent loop system not to be disturbed, yet not creating a void between the systems when the folding walls were gone and the areas were used together.

Luckily enough the auditoriums were only planned for seated listeners so the segment size could be restricted to just over 1.5 meters, making the control over the overspill easier. The three systems were also planned in such a way that the short sides of the segments were pointing at each other – a design that restricts the overspill even further.

**Meeting rooms**

In the three adjacent meeting rooms the spaces between the three areas were even narrower and the segment size had to be kept even smaller. A segment size of only 85 cm did the job. An additional problem in the three meeting rooms was the data floor which metal framework attenuates the magnetic field strength quite heavily. This problem is also tackled by using narrower segments (below one meter), thus the segment size used was perfect also in regards to this obstacle.



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## Conclusion

By careful planning and choice of the correct technical solution, the use by hearing aid users of the three auditoriums and three specially designated meeting rooms in the UN headquarters in Copenhagen, has made it to a truly barrier-free meeting facility.

## Univox® Products used

Auditoriums

SLS-700, Super Loop System®

SLS-300XF, Super Loop System®

SLS-100XF, Super Loop System®

2 x 2.5 $mm^2$ wire

Meeting rooms

SLS-100XF, Super Loop System®

25 mm Copper foil

## Responsible company

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