

AC519 – Acceptance criteria for enclosed booths

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framery

What are booths and pods?

Booths and pods are acoustically enclosed spaces within an open space. These products are used for having private phone calls and conversations.



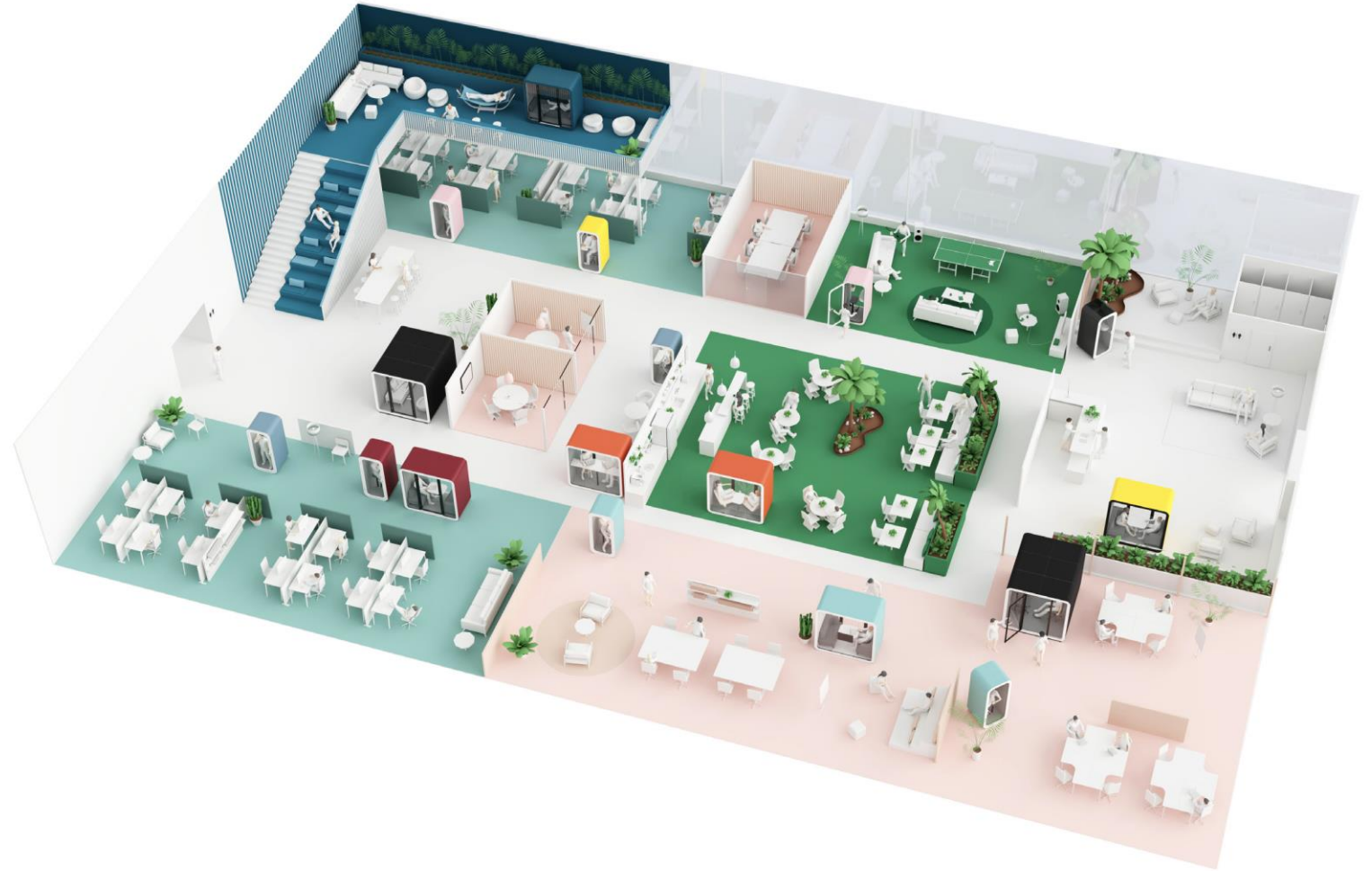
Office booths and pods by Framery

Smaller meeting spaces

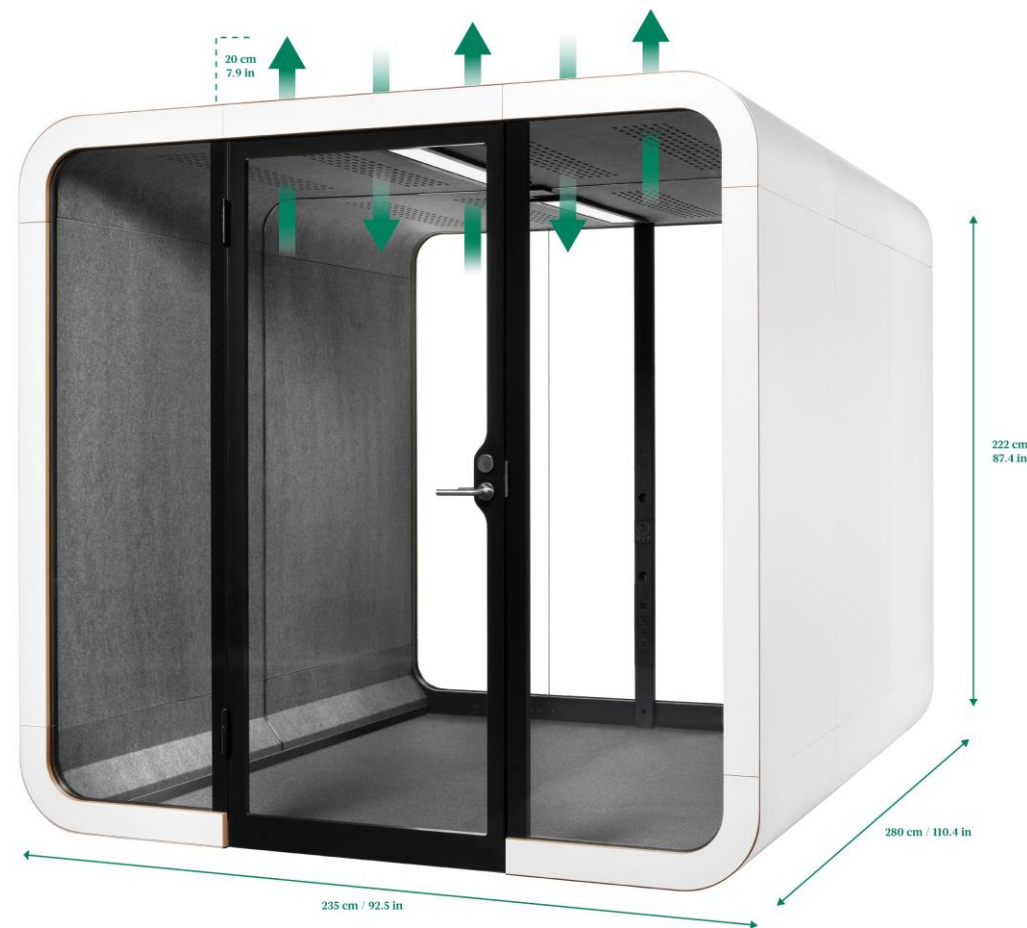
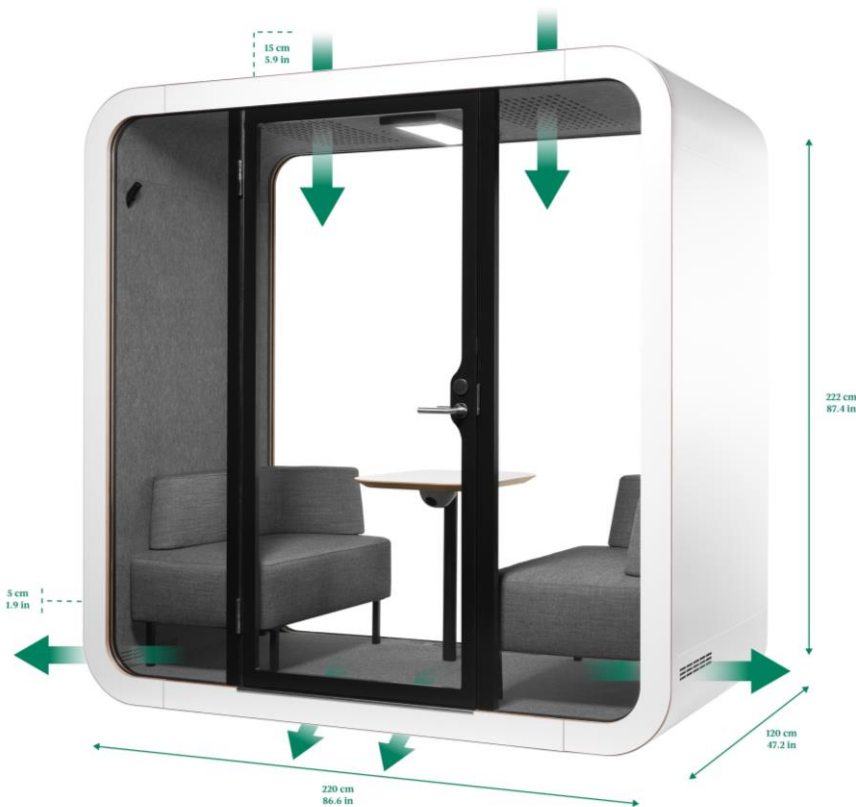
Easy to position close to users

All-in-one-package

- Good acoustics
- Echo-free
- Air ventilation
- Electrics
- UL962 certified



Booths and pods come in varying sizes:



They are also:

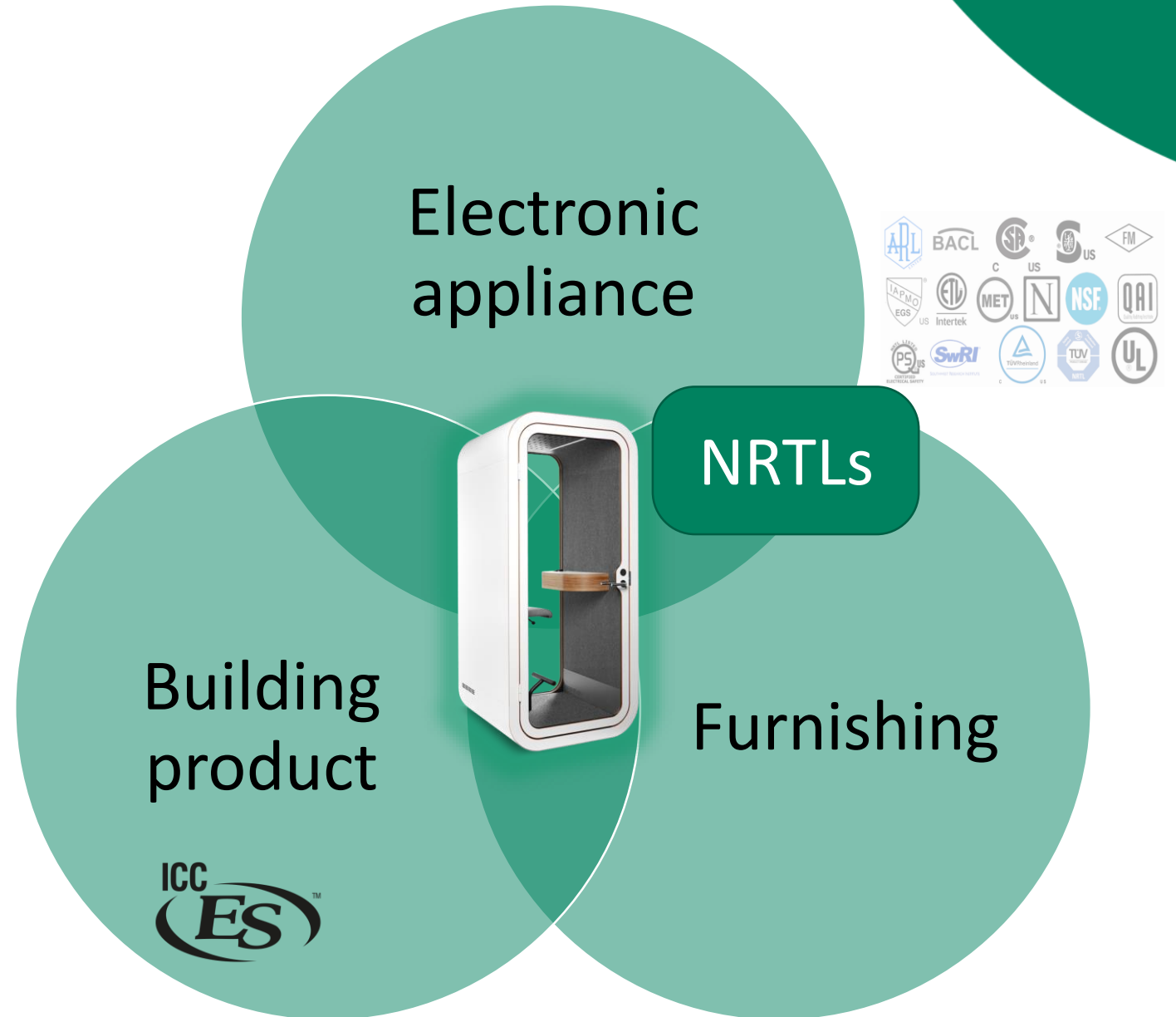
- Cord connected (or in some cases hard wired)
- Equipped with lights, electric sockets and ventilation
- Provided with means of ingress & egress

Booths and Pods are an innovation

Booths and pods as a product category fall in between of Furnishings, Building Products and Electronic Appliances.

Furnishing & Electronic appliance acceptance is available through NRTLs. E.g. UL962 certification. Additionally industry BIFMA guideline in ballot.

However building product industry is still lacking clear ruling. AC 519 aims to create acceptance criteria for the product category.



Reference Products – occupied spaces

Photo Booth:

No sprinkler inside, low headroom, narrow doorway, step in threshold



Parking Attendant Kiosk:

No sprinkler inside, low headroom, narrow door, step-in threshold



Music Training:

No sprinkler inside, narrow door, low headroom, step-in threshold



Flight Simulator:

No man door, no sprinkler inside, step-in threshold



CONCLUSION: There are many products as occupied spaces for short-term use similar to pods!

Why do we need AC519 - ENCLOSED BOOTHS FOR INSTALLATION INSIDE NEW AND EXISTING BUILDINGS

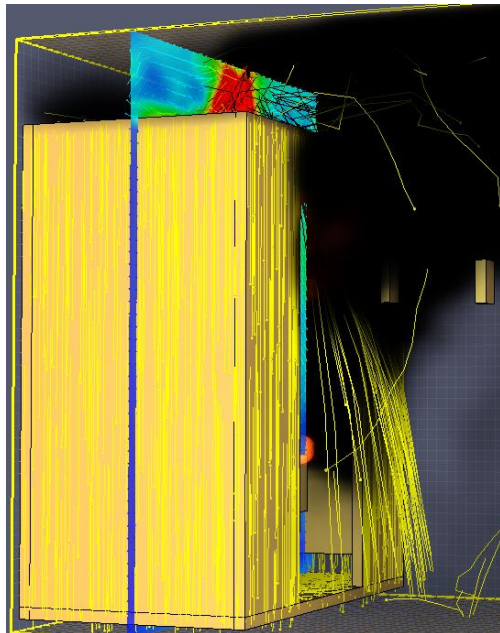
- Framery is the pioneer for phone booths for business occupancies and open offices
- Framery has delivered and installed over 40000pcs globally and over 13000pcs of booths to USA during 2010 – 2020
- During the 10 year history of Framery and 40kpcs products installed around the world we have had no incidents for occupants entering or exiting our products. Same applies for our ADA accessible model in terms of accessibility.
- Cities are creating their individual set of rules
 - Some say it is a furniture → UL 962 approval required (E.g. city of Bellevue)
 - Some say it is part of a building → IBC / IFC / IMC compliance required
 - AHJ's in cities do not know the product category and need guidance
 - Cities request ICC-ES evaluation, e.g. Los Angeles requested this
- Framery would like to develop the industry and define set of rules for this new product category
 - AC519 is proposed to be approved for this purpose



AC519 - Fire Safety

- Framery has studied IBC / IFC in detail as part of our product design and performed testing to verify compliance related to fire safety. Testing includes:
 - Interior finish testing in accordance ASTM E84 / UL723, for interior floor finish testing ASTM E648 / NFPA 253
 - Furniture fire test (Cal-TB-117-2013)
 - Fire simulations based on full scale fire testing at Southwest Research Institute
 - Sprinkler & smoke detector & horn/speaker installation
 - Additional stand-alone sprinkler installation available

Fire simulations



Full scale fire testing @ SWRI

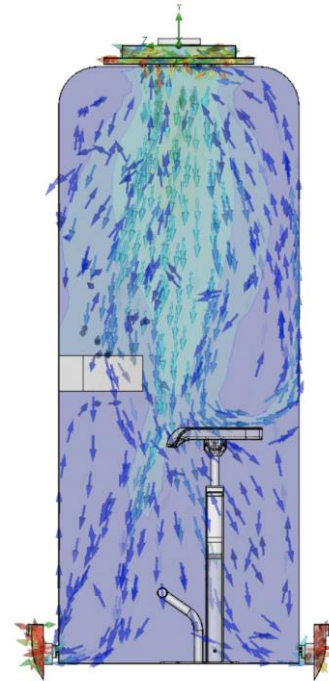


AC519 - Structural Safety

- Framery has ensured product safety and compliance for structural and seismic safety: Seismic testing for structural integrity has been performed and verified by California licensed civil engineer
- Mechanical ventilation is significantly higher than in normal office – functionality of ventilation combined with great acoustics is core knowhow of Framery
- Office pod industry with certification agencies has defined ventilation recommendations through BIFMA to be > 10 air changes per hour when occupied. Guideline currently in voting ballot



Seismic testing



**Ventilation
simulations**

Summary

- Booths are new and innovative product category and there are no clear definitions /ruling for enclosed booths
- Framery has designed and tested our products in accordance of several standards and regulations
- All Framery products are certified according UL962 and Framery has participated in BIFMA industry guideline for office pods.
- Local decision making around USA is looking for support on acceptance criteria of enclosed booths
- **Framery proposes AC519 to be approved to support USA wide adoption for enclosed booths**