



#### **The Joint Research Centre**

- Is a Directorate General of the European Commission, with the mission of providing independent scientific evidence for European Union policies.
- Contributes with its research outcomes to a healthy and safe environment, secure energy supplies, sustainable mobility and consumer health and safety.
- Collaborates with over a thousand organisations worldwide whose scientists have access to many JRC facilities
- Draws on over 50 years of scientific experience.
- Hosts specialist laboratories and unique research facilities and is home to thousands of scientists.



# JRC activities relevant to ISO/TC71

- Conducted within JRC Directorate E, Space Security and Migration, in the Unit E4, Safety & Security of Buildings.
- The mission of Unit E4 is to create harmonized guidelines for the building sector and to conduct pre-normative research towards standards for safety and security, addressing sustainability and efficiency issues, innovation and resilience in close collaboration with Standardisation Organisations and policy makers.
- The JRC has contributed significantly in bringing the Eurocodes to their present stage and is now supporting their implementation, harmonization and further development.
- JRC experts are active in different international standardization bodies, including ISO and fib.



## **European Laboratory for Structural Assessment**







### **Synopsis**

- Comparison of performances of pre-cast and cast-in-situ frames
- Seismic behaviour of single-storey pre-cast industrial buildings
- Project SAFECAST
- Project SAFECLADDING



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#### References

• Guidelines for connections in precast structures:

http://doi.org/10.2777/37605

Guidelines for claddings:

http://doi.org/10.2788/546845

http://doi.org/10.2788/956612

Technical papers on precast structures/claddings:

https://link.springer.com/article/10.1007/s10518-013-9466-z

http://www.sciencedirect.com/science/article/pii/S0141029613002782

http://dx.doi.org/10.1016/j.engstruct.2016.11.020

- http://earthquakespectra.org/doi/10.1193/1.2360671
- On Sustainable Structural Design (SSD), Simplified Performance Assessment:

http://doi.org/10.2788/5391

http://doi.org/10.2788/338223

https://link.springer.com/article/10.1007/s10518-015-9845-8

https://doi.org/10.3390/buildings8040052

