

**HB 2208**

**Seismic Retrofit Grants for  
Unreinforced Masonry Buildings**

**Portland Bureau of Emergency Management**

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Church, Portland



Norse Hall, Portland





Heavy, brittle walls  
Roof and floors not bolted to walls

Worst seismic performance of  
all building types (FEMA)

Dangerous in even light shaking.





CATHEDRAL VISITORS' CENTRE

Christchurch, NZ



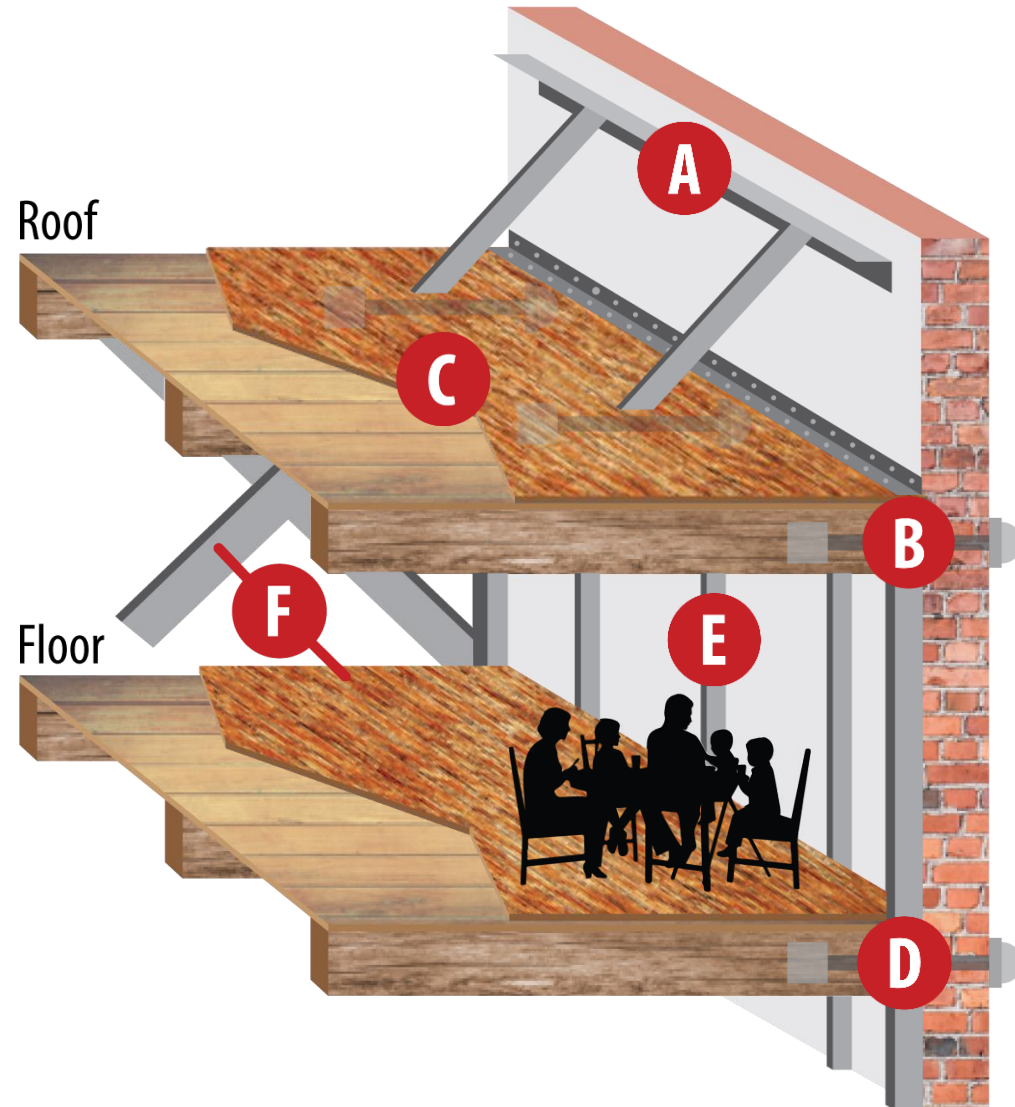


Harm occupants and bystanders

Hamper rescue efforts

Lead to long-term displacement

# Key Elements of a URM Retrofit



**A** Brace parapets

**B** Attach wall to roof

**C** Roof sheathing, ties and cross ties

**D** Attach wall to floor

**E** Out-of-plane wall bracing

**F** Other upgrades as required





Fire Station in Portland



Community Center





Committed to retrofitting  
community centers, public safety  
buildings, and schools

Bracing parapets and tying  
walls to roofs for all buildings

Placarding all URM buildings  
and notifying tenants



Julian Hotel, Corvallis



St. Paul Catholic Church,  
Marion County







Buildings that do most good are hardest to finance: affordable housing, churches

Community will need services more after an earthquake

Propose grant program to support retrofits



Vancouver Avenue First Baptist  
Church, Portland

Accords with strategy of  
engaging whole  
community.

Reduces disparities –  
more people can afford  
safe buildings.

Preserves structures  
whose services may be  
essential after a major  
disaster.





Covers up to 35% of eligible costs.

\$20 million funded through lottery.

Administered by Business Oregon, as for SRGP.

Many communities will benefit.

Admin Rules can specify priorities e.g. prefer mass shelter locations.





**Thank you.**

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