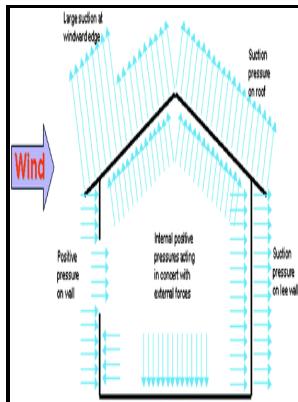


# External walls - design for wind loads

## Brick Development Assn. - Designing Brick Walls for High



Description: -

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Notes: Previous ed. 1978.

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### Structural Studs

The 4-foot-width limit for  $d$  and  $x$  is imposed on the analysis of overturning forces as presented above because longer shear wall lengths mean that the contribution of the additional dead load cannot be rigidly transferred through deep bending action of the wall to have a full effect on the uplift forces occurring at the end of the segment, particularly when it is rigidly restrained from uplifting. Loading Case I % Elevator supports and machinery Light machinery supports Reciprocating machine supports Hangers supporting floors and balconies Crane support girders and their connections 100 20 50 33 25 2.

### Building Codes for Wind Loads in Texas

The test house had typical openings for a garage, doors and windows, and no special wind-resistant detailing.

### Wind Example #1

To determine the shear load on a simply supported diaphragm i. It is not necessarily surprising, then, that the amount of wall bracing in conventional homes shows no apparent correlation with the damage levels experienced in seismic events HUD, 1999. Finally, the designer superimposes direct shear loads and torsional shear loads to determine the estimated shear loads on each of the shear wall lines.

### Calculation of wind load on building side walls

Relative Stiffness Design Approach Rigid Diaphragm The relative stiffness approach was first contemplated for house design in the 1940s and was accompanied by an extensive testing program to create a database of racking stiffnesses for a multitude of interior and exterior wall constructions used in residential construction at that time NBS, 1948.

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