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# **DIVERSE APPLICATIONS IN STEEL FRAME BUILDINGS**

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# Overview

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- Introduction;
- The Choice of SidePlate™ Technology;
- Construction Applications;
- SidePlate™ Technology Practical Use;
- Projects Criteria;
- Projects of SidePlate™ Technology Inc.;
- Conclusions.

# The Choice of SidePlate™ Technology



Figure 1. Blast and Progressive Collapse Mitigation



Figure 2. Attack on the Twin Towers of the World Shopping Center

# The Choice of SidePlate™ Technology



Figure 3. Earthquakes  
of All Magnitudes

Figure 4. Extreme Winds,  
Including Typhoons,  
Hurricanes and Tornadoes



# Construction Applications

## *Institutional*

- HEALTHCARE
- GOVERNMENT
- EDUCATION

## *Blast-Resistant Structures*

- STRATEGICALLY SENSITIVE GOVERNMENT FACILITIES
- HIGH-PROFILE PRIVATE BUSINESS OWNERS

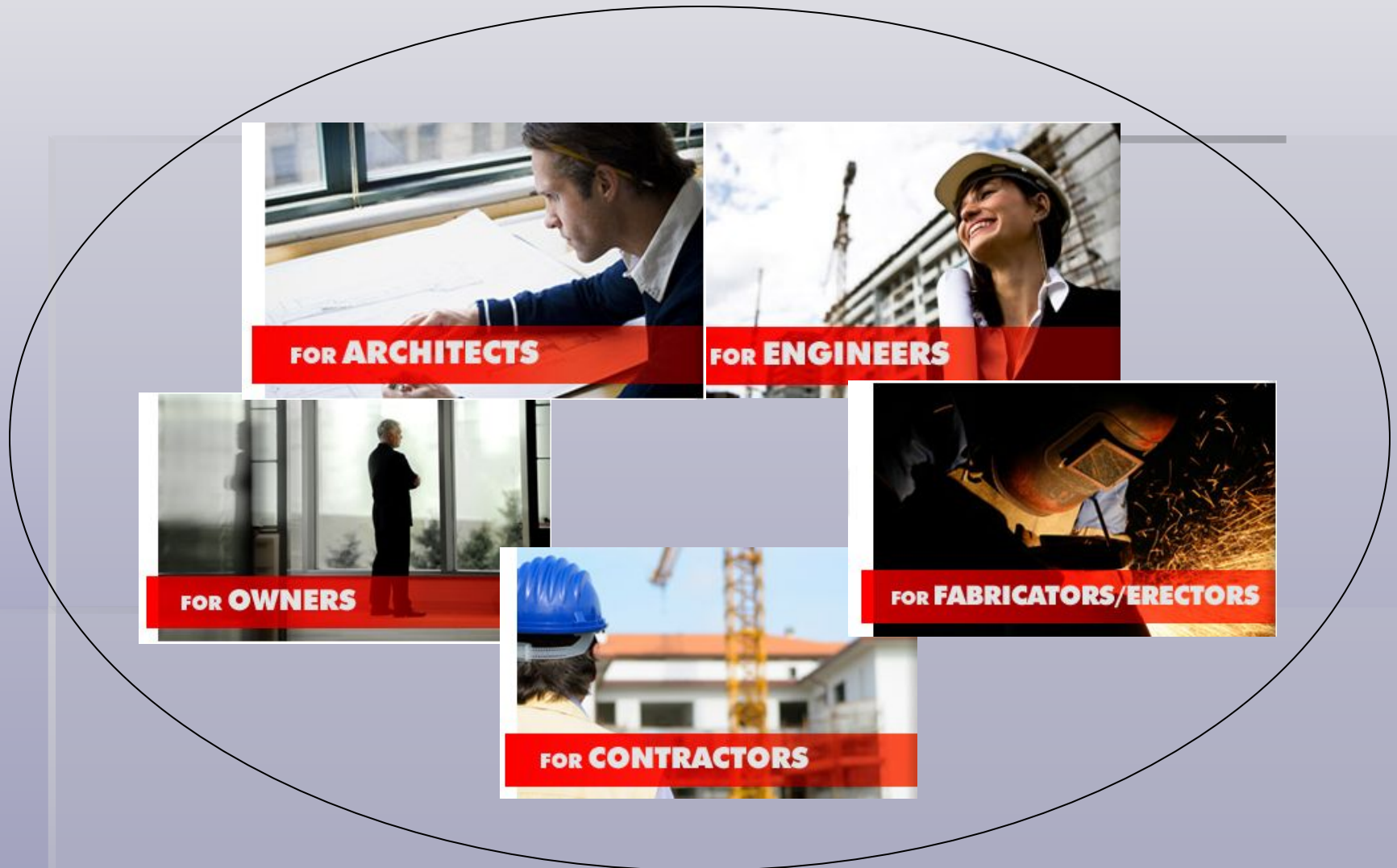
## *Commercial and Industrial*

## *Residential*



***Figure 5. Frames For Straight, Curved and Skewed Uniaxial Frames***

# SidePlate™ Technology Practical Use



***Figure 6. Versatility of SidePlate™***

# Projects Criteria:

- Maximum architectural freedom;
- Maximum usable or lease-able space;
- Future floor plan flexibility (no diagonal bracing);
- A shorter construction schedule or lower overall construction costs;
- Tall story heights or large bay widths;
- Bomb and progressive collapse mitigation.



*Figure 7. Uniaxial Frame*

# Projects of SidePlate™ Technology Inc.



Figure 8.  
Overlake  
Hospital  
South Tower

Figure 9. Sunrise  
Assisted Living of  
Pacific Palisades





# Conclusions

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## Advantages:

- The Structural Integrity of Columns, Girders and Associated Connections;
- Terrorist Attack Protection;
- Fundamentally Different Geometry.

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**THANK YOU FOR ATTENTION**

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