

DIVERSE APPLICATIONS IN STEEL FRAME BUILDINGS

*Victoria Riffel,
Civil Engineering Department*

Overview

- 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

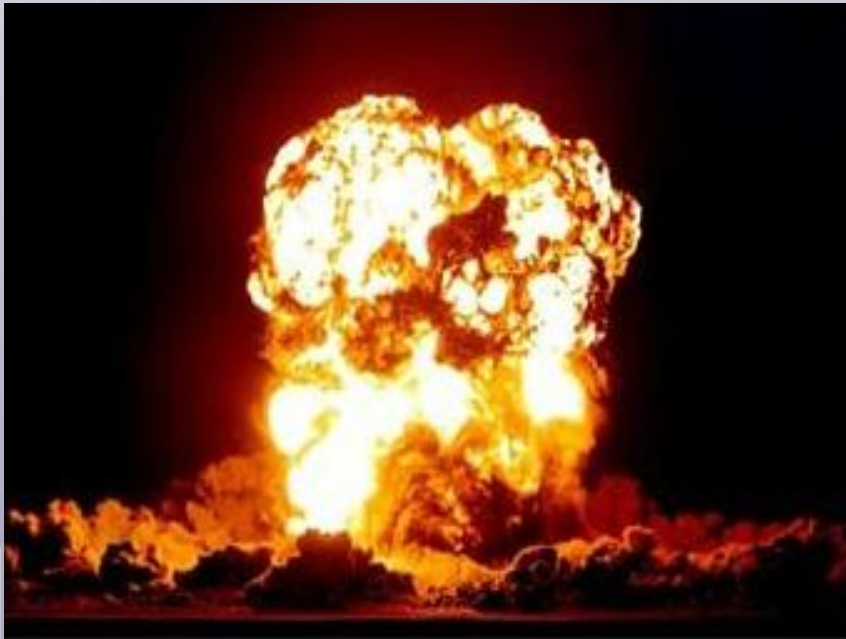


Figure 1. Blast and
Progressive Collapse
Mitigation



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

The Choice of SidePlate™ Technology



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

Figure 3. Earthquakes
of All Magnitudes



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

Advantages:

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

THANK YOU FOR ATTENTION

vika.riff@gmail.com