

TRADITIONAL MOMENT CONNECTIONS VS. SIDEPLATE FRAME™

Now with SidePlate FRAME™ the owner **SAVES \$248,000** in construction costs (**\$1.27/sf**) **PLUS 24% (76) fewer moment connections** to install in the field resulting in a faster construction schedule.

6-Story Commercial Building, Pineville, NC

Lateral System: steel moment frames governed by wind

Area: 195,000 s.f.

MATERIAL TAKE-OFF & ESTIMATED COSTS:

	Traditional WUF-B – FIXED Base	SidePlate FRAME™ System FIXED Base
	WEIGHT	WEIGHT
Lateral Columns	W14x257 / 176 / 159 2.49 psf	W21x147 / 122 / 101 1.59 psf
Lateral Beams	W24x146 / 117 / 94 2.63 psf	W24x94 / 76 / 68 1.22 psf
Gravity Columns & Beams	5.11 psf	5.81 psf
Connection Plates	0.1 psf	0.7 psf
Misc. Steel	1.7 psf	1.7 psf
Total Steel Weight	12.0 psf (1,170 tons)	11.0 psf (1,072 tons)
Estimated Fabricated & Erected Steel Costs	\$3,745,000 (\$3,200/ton)	\$3,489,000 (\$3,255/ton)
SidePlate® Services & License Fee	N/A	\$80,000
Moment Frame Column Footings converted to Gravity Column Ftgs	--	<\$30,000>
Shop Special Inspection Costs	\$42,000	N/A
Total Estimated Costs	\$3,787,000	\$3,539,000
Estimated Savings with SidePlate® Moment Frames		98 tons or 1.0psf PLUS 24% fewer moment connections

Recommendation:

Use SidePlate® connection technology and *save the owner*:

- **\$248,000** construction costs (**\$1.27/sf**) **PLUS**
- **24% (76) fewer moment connections** to install in the field resulting in faster construction schedule