DIAMOND<>FURR®PAT.

Lath Fastener Analysis
Diamond-Furr System vs. Traditional Lath Fastening

This analysis was done to identify the number of lath fastener penetrations in a full depth plaster clad wall assembly using traditional self tapping wafer head fasteners in accordance with ASTM 1063 C versus the patented Diamond-Furr® System of lath attachment.
The model used was a twenty foot high two story steel framed building with a live floor line joint 100 feet long for a total of 2000 square feet of vertical wall surface. There were no windows or doors factored in this analysis.

First Floor

	Traditional Method	# of Fasteners	Diamond-Furr
1.	(75) 10 ft. studs lath attached every 6” oc.	1575	675
2.	100 ft. Bottom of wall attached every 8” oc.	150	0
3.	100 ft. top of wall floor joint every 8” oc.	150	0
4.	(7) 10 ft. Expansion Joints attached every 6” oc.	147	0
5.	(2) 10 ft. corner bead attached 2 times every 8” oc.	60	0
	Total	2082	675

Second Floor

	Traditional Method	# of Fasteners	Diamond-Furr
1.	(75) 10 ft. studs lath attached every 6” oc.	1575	675
2.	100 ft. Top of wall attached every 8” oc.	150	0
3.	100 ft. Bottom of wall floor joint every 8” oc.	150	0
4.	(7) 10 ft. Expansion Joints attached every 6” oc.	147	0
5.	(2) 10 ft. corner bead attached 2 times every 8” oc.	60	0
	Total	2082	675
	Grand Total	4164	1350
		- 1350	
	Difference	2814 less Fasteners and Penetrations	

We put these numbers into a recently completed project that totaled approximately 14,000 yards of plaster. This equated to approximately 126,000 square feet of vertical wall surface. Dividing the project square footage by 2000 square feet to match the model above; the **Diamond-Furr System eliminated 177,282 fasteners from penetrating the building envelope.** This number does not count the penetrations that would have occurred around all the windows, doors and service openings if not for the Diamond-Furr System. To see how Diamond-Furr can protect the building envelope on your next project please call

(888) 856-5434 or email bob@brandxmetals.com