

Introducing



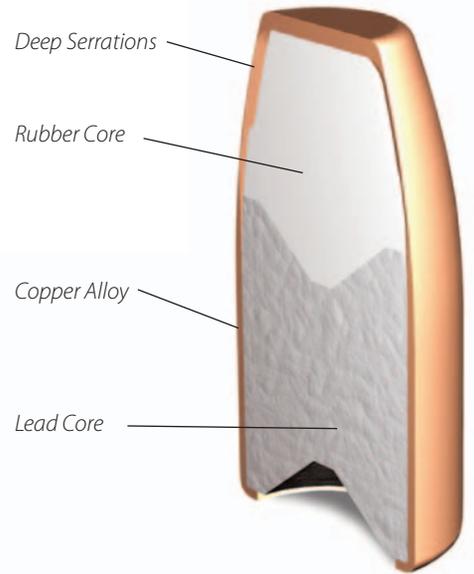
**FEDERAL
PREMIUM[®]**
A M M U N I T I O N



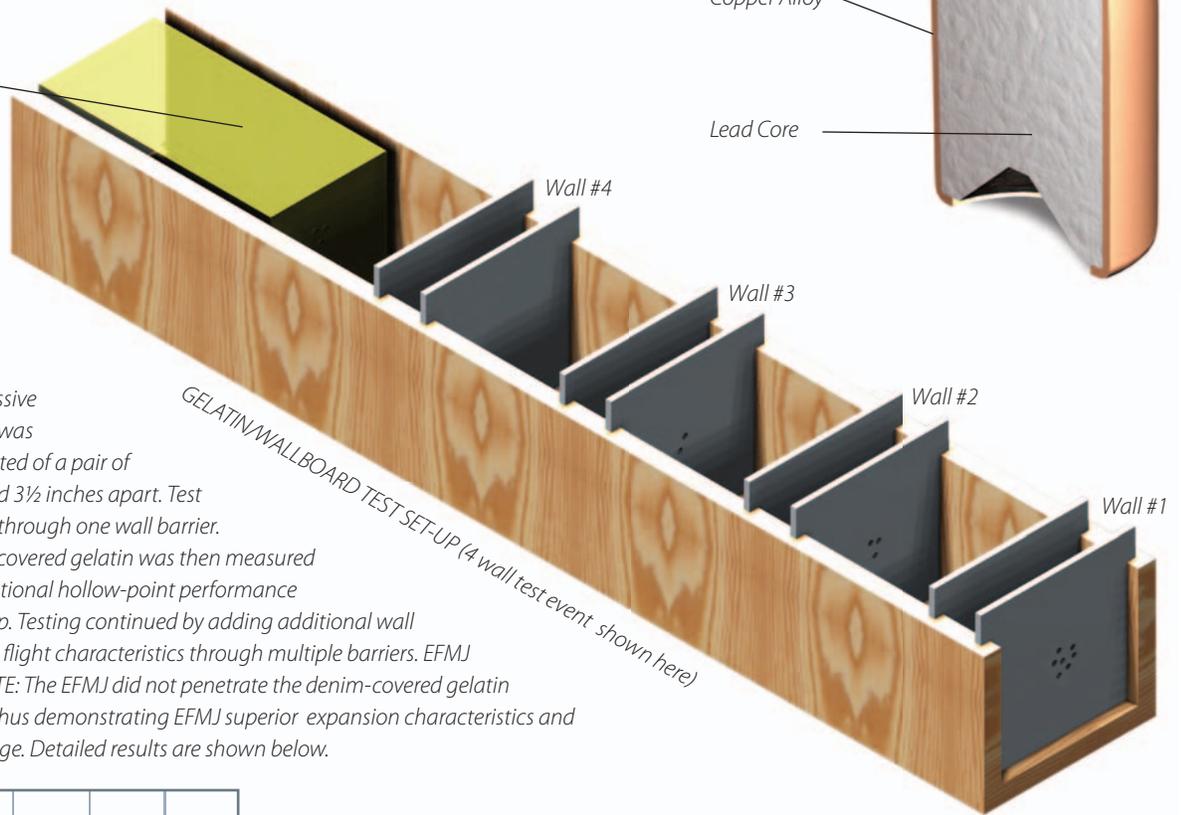
Expanding Full Metal Jacket

Introducing a New Standard in Bullet Expansion Technology

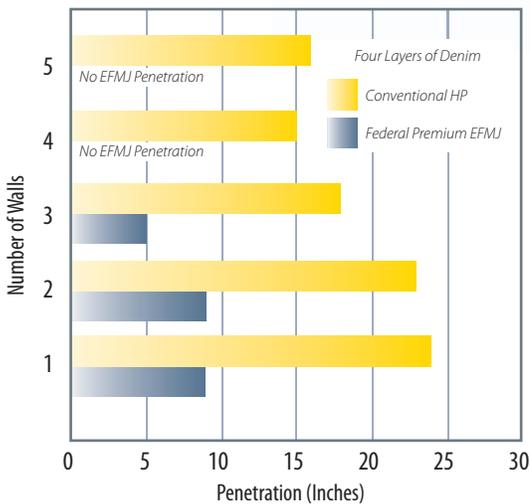
Designed specifically for consistent expansion, EFMJ uses a patented synthetic rubber core that acts on impact to expand. Unlike conventional hollow-point ammunition that requires hydraulics to expand, EFMJ expands on contact for reliable performance time after time and offers reduced risk of collateral damage. With no hollow-point to plug and prevent expansion, EFMJ excels in this barrier test. The bullet's ball profile also lends itself to reliable feeding in automatics and a low-flash propellant is ideal for low-light tactical use.



Gelatin covered with denim

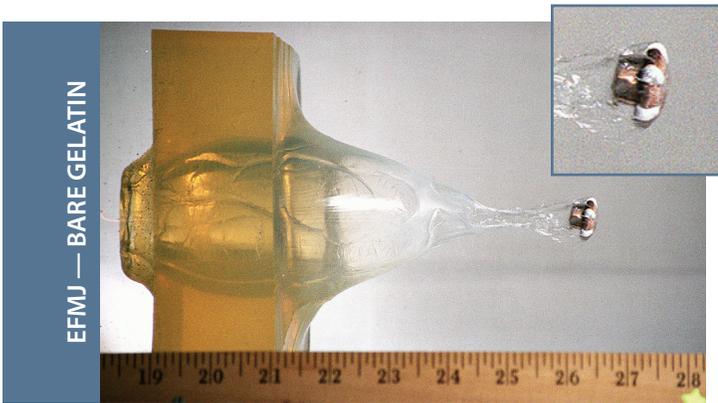


In this test, EFMJ shows its superior performance through wall barriers. Five comparison tests were completed. In each successive test, an additional wall barrier was added. Each wall was constructed of a pair of 1/2 inch wallboard panels placed 3 1/2 inches apart. Test one required the bullet to pass through one wall barrier. Penetration depth into denim-covered gelatin was then measured and compared against conventional hollow-point performance through the same barrier set-up. Testing continued by adding additional wall barriers, testing expansion and flight characteristics through multiple barriers. EFMJ outperformed in each test. NOTE: The EFMJ did not penetrate the denim-covered gelatin after the 4th wall was added. Thus demonstrating EFMJ superior expansion characteristics and reduced risk of collateral damage. Detailed results are shown below.

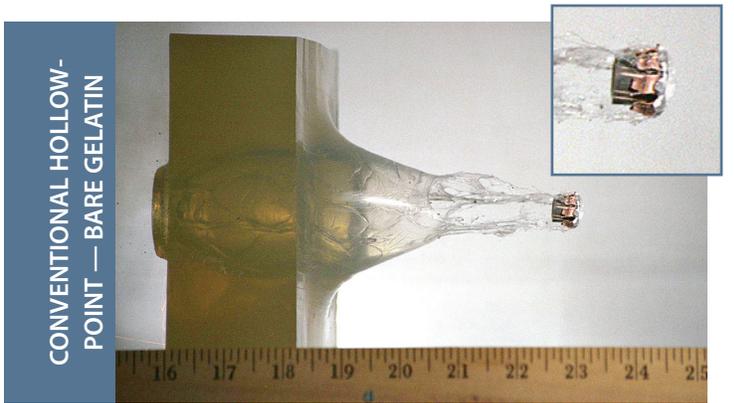


EXPANDED BULLETS RETRIEVED FROM WALL TEST

Number of Walls	1	2	3	4	5
P40CSP1 40 S&W 165 gr. EFMJ					
Conventional 40 S&W 165 gr. Hollow-Point					



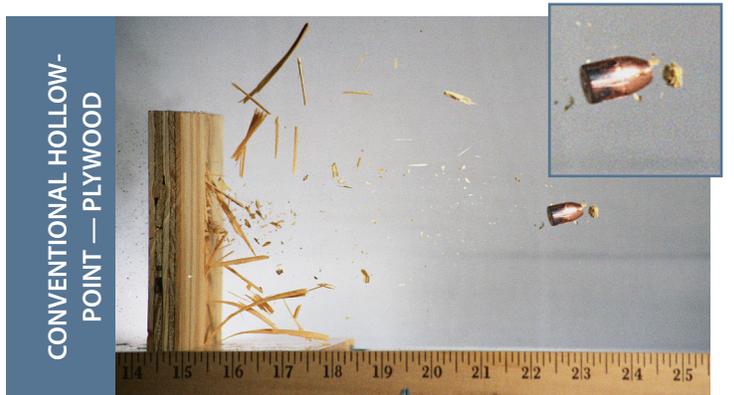
EFMJ — BARE GELATIN



CONVENTIONAL HOLLOW-POINT — BARE GELATIN



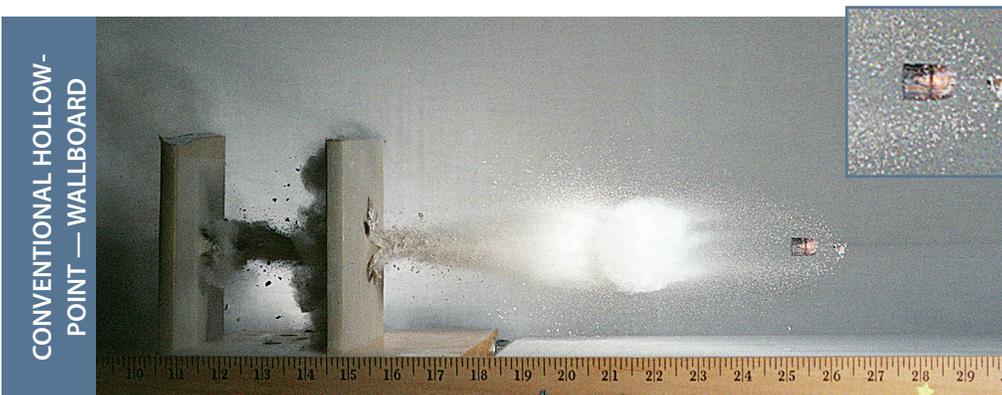
EFMJ — PLYWOOD



CONVENTIONAL HOLLOW-POINT — PLYWOOD



EFMJ — WALLBOARD



CONVENTIONAL HOLLOW-POINT — WALLBOARD

Proven Superiority in Comparison Tests

These dramatic, high-speed photos demonstrate the outstanding, consistent performance of Federal Premium EFMJ through two FBI-protocol barriers—wallboard and plywood. As the photos clearly demonstrate, EFMJ performs not only when contacting bare gelatin, but also when passing through barriers where the conventional hollow-point may have a tendency to plug—rendering them ineffective. (Test results vary.)

FEDERAL PREMIUM EXPANDING FULL METAL JACKET (EFMJ) 40 S&W 165 GRAIN

Expanded Bullet	Shot #	Velocity FPS	Penetration (Inches)	Expansion (Inches)	Retained Wt. (Grains)	Weight Retention
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BARE GELATIN AT 10 FEET

	1	1014	14.80	0.59	164	99.39%
	2	1026	12.60	0.60	165	100.00%
	3	1014	15.25	0.57	165	100.00%
	4	1001	12.80	0.59	165	100.00%
	5	1002	14.00	0.59	165	100.00%

HEAVY CLOTHING AT 10 FEET

	6	1007	12.80	0.58	165	100.00%
	7	1013	14.00	0.58	165	100.00%
	8	1009	14.40	0.58	165	100.00%
	9	1038	12.00	0.61	165	100.00%
	10	1014	12.00	0.59	165	100.00%

WALLBOARD AT 10 FEET*

	11	1016	12.00	0.60	165	100.00%
	12	1018	13.10	0.59	165	100.00%
	13	1026	12.50	0.58	165	100.00%
	14	1012	12.80	0.59	164	99.39%
	15	1028	12.00	0.59	165	100.00%

PLYWOOD AT 10 FEET*

	16	1020	17.00	0.59	165	100.00%
	17	1011	16.80	0.54	164	99.39%
	18	1015	16.40	0.54	164	99.39%

Expanded Bullet	Shot #	Velocity FPS	Penetration (Inches)	Expansion (Inches)	Retained Wt. (Grains)	Weight Retention
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PLYWOOD AT 10 FEET* (cont.)

	19	1019	15.00	0.55	164	99.39%
	20	1009	14.60	0.53	165	100.00%

STEEL AT 10 FEET

	21	1029	7.10	0.54	111	67.27%
	22	1016	9.75	0.49	119	72.12%
	23	1028	10.75	0.53	112	67.88%
	24	1013	10.75	0.57	121	73.33%
	25	1018	11.80	0.49	126	76.36%

AUTO GLASS AT 10 FEET

	26	1014	12.00	0.48	110	66.67%
	27	1026	11.00	0.46	109	66.06%
	28	1018	11.00	0.48	111	67.27%
	29	1019	11.40	0.59	108	65.45%
	30	1029	11.50	0.50	113	68.48%

IWBA FOUR LAYERS OF DENIM AT 10 FEET

	31	1025	13.50	0.61	165	100.00%
	32	1008	14.25	0.60	165	100.00%
	33	1018	13.75	0.60	165	100.00%
	34	1024	15.00	0.62	165	100.00%
	35	1024	14.00	0.61	165	100.00%

These test shot were fired from a Glock 22.

*Federal does not promote blind shots through solid barriers.

This data is offered as information only.

EFMJ & The 9mm Submachine Gun

Federal's 9mm 124 grain Expanding Full Metal Jacket bullet offers unique performance advantages over conventional hollow point ammunition when used in structures, dwellings and municipal buildings. Hollow point bullets passing through wall barriers tend to plug with wall material, losing the ability to expand. This poses a greater risk in terms of multiple wall penetration. Because the 9mm EFMJ design only requires resistance to expand, contact with a wall or partition initiates and completes expansion. The expanded bullet sloughs momentum faster because the larger diameter bullet creates a larger hole, more material has to be moved, and resistance is greater. And, because the 9mm EFMJ bullet profile is more like a ball or FMJ, feeding is more reliable.

"Federal takes you to the next level with EFMJ 9mm engineered specifically to perform well in the MP-5 submachine gun."



Expanded Bullet	Test Event	Velocity FPS	Penetration (Inches)	Expansion (Inches)	Retained Wt. (Grains)	Weight Retention
EFMJ & THE SUBMACHINE GUN						
	Bare Gelatin at 10 Feet	1214	10.50	0.66	124	100.00%
	Heavy Clothing at 10 Feet	1205	12.75	0.62	124	100.00%
	IWBA Four Layers of Denim at 10 Feet	1206	11.50	0.63	124	100.00%
	Steel at 10 Feet	1207	10.00	0.53	94	75.81%
	Plywood at 10 Feet	1199	12.00	0.58	124	100.00%
	Wallboard at 10 Feet	1215	11.25	0.61	124	100.00%
	Auto Glass at 10 Feet	1235	10.50	0.58	76	61.29%

These FBI Protocol test shots were fired from a MP-5 using Federal® Premium® EFMJ 9mm 124 Grain Part # P9CSP1

FBI PROTOCOL TESTS	
Bare Gelatin	Shot at ten feet
Heavy Clothing	Shot at ten feet
Steel*	Two pieces of 20 gauge, shot at ten feet
Wallboard*	Two pieces of 1/2 inch gypsum board, shot at ten feet
Plywood*	One piece of 3/4 inch AA fir plywood, shot at ten feet
Automobile Glass*	One piece of 1/4 inch laminated safety glass set at a 45° angle with an offset of 15°, shot at ten feet
Heavy Clothing	Shot at 20 yards
Automobile Glass*	Shot at 20 yards without the 15° offset
IWBA Heavy Clothing	Shot at ten feet

* Ballistic gelatin covered with light clothing



FEDERAL PREMIUM® AMMUNITION

For the latest information on Federal products and workshops, please visit our web site at www.le.atk.com or call us at 1-800-322-2342.



Federal Load #	Caliber	Bullet Weight	Bullet Style	Muzzle	Velocity			Muzzle	Kinetic Energy		
					25 yds	50 yds	100 yds		25 yds	50 yds	100 yds
FEDERAL PREMIUM EFMJ											
P9CSP1	9mm +P	124	EFMJ	1120	1070	1030	965	345	315	290	255
P40CSP1	40 S&W	165	EFMJ	1050	1015	985	930	405	375	355	320
P45SCP1	45 Auto +P	200	EFMJ	1030	995	965	910	470	440	410	365
FEDERAL PREMIUM PERSONAL DEFENSE EFMJ											
P9CSP2	9mm	105	EFMJ	1225	1155	1095	1005	350	310	280	235
P40CSP2	40 S&W	135	EFMJ	1190	1100	1035	940	425	365	320	265
P45SCP2	45 Auto	165	EFMJ	1090	1035	995	925	435	395	360	315