



DS-190 Series - Mobile Defensive Fighting Position™

The Tool of Choice When Protection Against Rifle Threats up to the 30-60 AP Round is Required.

The DS-190 series is certified by HP White Labs to NIJ Level IV and meets the US Department of State standard DS-STD-01.01. This series was formerly the DS-180-P.

The DS-190, caster mounted DS-191, and ATV-style tire equipped DS-192's are designed to protect security forces in locations where the highest level of threat exists, including terrorist activity and the use of armor piercing ammunition. It is the only mobile, full coverage and full field of view, ballistic resistant tool on the market.

Offering up to 12 square feet of viewing area in a mobile package, the DS-190 series offers protection to the military, anti-terrorism teams, combat groups and observers, infrastructure security guards and anyone else who may come under the threat of hostile sniper rifle fire or terrorist attacks. The DS-190 series is particularly effective for use at fortified ECP's and overwatch positions.

When a soldier, guard, observer or negotiator is behind a Defenshield MDFP, they become the highest form of deterrence. MDFP's are available in four levels of protection to satisfy the ballistic threat and mobility requirements of a wide variety of users. Custom sized units are also available.



DS-190 with Casters
The highest level of protection in a mobile, stand-alone device. Most often used in military combat and for high security applications. Allows for superior maneuverability on improved surfaces such as concrete, wood floors and carpet. Additional mobility options and custom finishes available.

Bullet Range Ratings

Standard	Class	Caliber	Weight (gr.)	Min/Max Vel (fps)	Shots	Range ft.	Notes
DIN	C5-SF	7.62 x 51 AP	150	2627/ 2660	3	82.02	
SD	rifle	7.62 x 51 (AP M61)	150	2700/ 2800	3	30	F
ASTM	rifle	.30-06 (AP M2)	165	2725/ 2825	3	25	E
HPW	E	.30-06 (AP M2)	165	2725/ 2825	3	20	D
NIJ	IV	.30-06 (AP M2)	165	2800/ 2900	1	16	
SD	rifle	.30-06 (AP M2)	165	2750/ 2850	3	30	F

“The mobility of the unit defeats attempts at reconnaissance and maintains the ‘human element’ of high security.”

Information listed for comparison ONLY, contact applicable standards and testing labs for current information or certifications.

Abbreviations: AP- Armor Piercing; HV- Higher Velocity; LD- Lead; L.R.- Long Rifle; LV- Lower Velocity; Mag.- Magnum; Spec.- Special; SRP- Soft Round Point; M2, M61, M80, M193- U.S. Military Ammunition, Full Metal Jacket, Spire Point.

*The various standards specify different locations to measure the bullet velocity. They are as follows: ASTM-15 ft from weapon muzzle; ANSI/UL- at muzzle; BSI- strike face of the target; DIN- 8.20 ft from weapon muzzle; HPW-15 ft from weapon muzzle; NIJ- 6.60 ft from weapon muzzle; and SD- 10 ft from strike face of the target. For meeting

the various velocity measurement requirements, the use of custom (special) powder loads may be required.

Not responsible for errors or omissions. Please consult actual source documents for current specifications.

D- Three shots required for the base materials and twelve shots required for assemblies.
E- Minimum number of shots.

F- Minimum of three shots required for the glazing and six shots required for other parts of the assembly.

Camography™

Camography is Defenshield's proprietary method of increasing the effectiveness of your MDFP product. Instead of traditional camouflage, Defenshield uses imagery of the intended environment to ensure maximum concealment.

Camography can also be applied to the transparent armor panel of the unit with a one-way see-thru film. Units used in diplomatic or government facilities may use images of wood paneling, ceramic tiles, or other architectural materials. Outdoor protection could include images of gardens, rock walls, heavy woods, or similar settings. Images can also be taken of the location where the unit will be deployed. The match is exact in color, and scale. The transparent armor panel may be tinted, reflective, or utilize the one-way Camographic film to achieve maximum concealment.



Camography can be applied to units of any resistance level and do not alter the level of protection provided by the unit.

Mobility

MDFP's combine unsurpassed mobility with the highest level of stand-alone protection. Units are easily disassembled into a few components with minimal tools, and can be transported by vehicle and reassembled on location in a few minutes.

Mobility options are constantly being developed in response to our customer's individual needs and specifications. Please visit our website or contact us to discuss latest developments.

DS-190 Series Model Summary

Model #	Mobility	Weight formula (lbs)
DS-190 30-06 Armor Piercing Resistant	Fixed	$(W \times H \times 30) + 195$
DS-191 30-06 Armor Piercing Resistant	Casters	$(W \times H \times 30) + 209$
DS-192 30-06 Armor Piercing Resistant	ATV Tires	$(W \times H \times 30) + 265$

Sample calculation based on DS-192s in use by the USMC in Iraq (36" x 76" with ATV Tires):
 $(3ft \times 6.33ft \times 30) + 265 = 834.7$ pounds.

Notes: Width and height in the above chart are in feet. Standard width is 36". Custom widths available from 30" to 48". Standard height is 76". Custom heights available from 70" to 84". Weight is in pounds. ATV tires are urethane filled and cannot lose pressure or be shot out.



Certifications

NIJ Level IV (Armor Piercing Rifle)

The glazing and armor protects against .30 caliber armor piercing (AP) bullets (U.S. Military designation M2 AP), with nominal masses of 10.8 g (166 gr) impacting at a minimum velocity of 869 m/s (2850 ft/s) or less. The DS-190 Series Mobile Defensive Fighting Position is independently certified by H.P. White Laboratory, Inc. to satisfy the ballistic resistance requirements of NIJ-STD-0108.01 for Level IV protection. This series also meets the US Department of State standard DS-STD-01.01.