PRODUCT DATA SHEET

Delignit®-Modular Protection System MPS

A DIN 7707-compliant hardened panel material made of a combination of synthetic resin and hardwood with a fortified structure.

Areas of use:	Walls and ceilings with improved requirements regarding burglar-, bullet- and explosive effect resistance.

Variants:

Professional	for visual areas
Basic	for hidden installation different options due to the modular concept, also available as a fireproof system (B1 acc. to DIN 4102)

Mechanical properties:

machining:	typical wood industry machines, even with tools for craftsmen, no metal inserts
bullet protection:	Vpam 4 (2-layer) or Vpam 6&7 (3-layer) regarding German Standard APR 2006
burglar protection:	RC 3 or RC 4 regarding DIN 1627
blast protection:	EXR 2 NS regarding DIN EN 13123-2 / 13124-2
sound insulation:	37 dB
fire protection:	B2 regarding DIN 4102, B1 optional
thermal insulation:	app. 0,29 W/Km for the base material „Panzerholz“, system-value depends on the final solution

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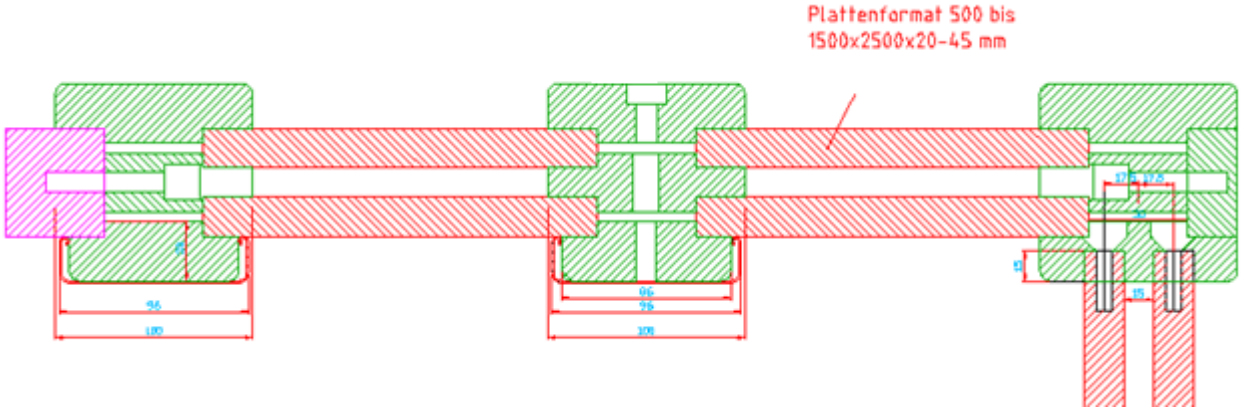
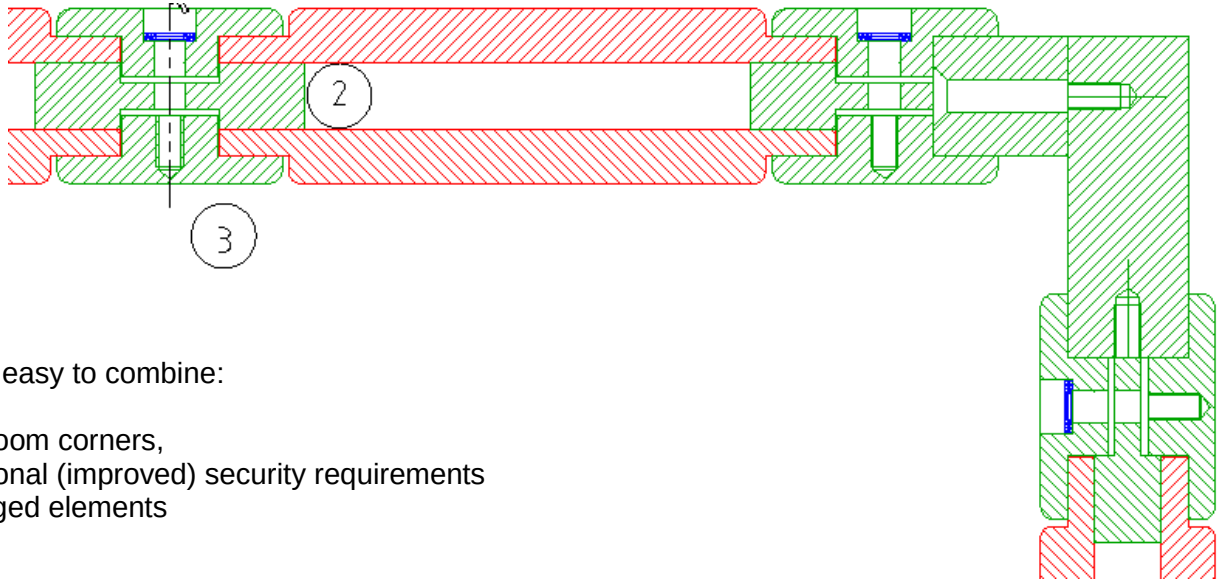
Delignit®-Modular Protection System MPS
Design:

MPS Basic:
for hidden installation
behind walls and cabinets



MPS Professional:
for visual areas
with decorative surfaces



Due to the modular concept, different options are easy to combine:

1. Installation of doors and windows,
2. Connection to existing walls and room corners,
3. subsequent modification for additional (improved) security requirements
4. subsequent replacement of damaged elements

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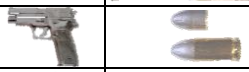
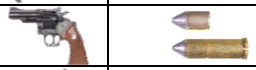
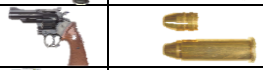
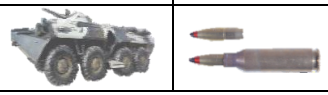
Delignit®
naturally superior

Classes		Weapon type and bullet	Calibre // munition bullet type	Bullet speed [m/s] // energy [joules]	Delignit® Panzerholz® thickness
KP 2006 KP 2007 KP 2206	EN 1063 DIN 1522 / 1523 BRV 1999				
1	1		.22 lr // Lead	360 //169	15
2	-		9 mm Luger // DM41	360 // 518	-
3	2		9 mm Luger // DM41	415 // 689	30
4	3		.357 Mag. // Full metal jacket, cone tip, lead	430 // 943	35
	4		.44 Rem. Mag. // Full metal jacket, cone tip, lead	440 // 1510	40 / 20 + 20
5	-		.357 Mag. // Solid brass	580 // 1194	-
6	-		7,62 x 39 // Full metal jacket, pointed tip, ferrous core	720 // 2074	45 + 45
7	5		.223 Rem. 5,56 x 45 // Penetrator SS 109	950 // 1805	60
	6		.308 Win. 7,62 x 51 // Full metal jacket, pointed tip, lead	830 // 3289	30 + 35 + 30
8	-		7,62 x 39 // Full metal jacket, pointed tip HK, Brand (BZ)	740 // 2108	57 + 57
9	7		.308 Win. 7,62 x 51 // Full metal jacket, pointed tip, HK, (P 80)	820 // 3177	70 + 70
10	-		7,62 x 54R // Full metal jacket, pointed tip HK, Brand (32)	860 // 3846	-
11	-		.308 Win. // Full metal jacket, pointed tip, Nammo AP 8	930 // 3633	-
12	-		.308 Win. // Swiss P AP	810 // 4166	-
13	-		.50 Browning // Swiss P, Penetrator	930 // 18595	-
14	-		14,5 x 114 // Full metal jacket, pointed tip, HK, Brand (32)	911 // 26308	-
xx + xx airgap between panels ≥ 10 mm					

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FMJ	Steel full metal jacket	C.I.P.	Permanent International Commission for the Proof of Small Arms
FMJ*)	Copper full metal jacket	TDCC	C.I.P. dimension sheets
CB	Conical tip	DAG	RUAG Ammotec, Germany
RN	Round tip	Geco	RUAG Ammotec, Germany
PB	Pointed tip	MEN	Metallwerk Elisenhütte Nassau, Germany
FN	Flat tip	Nammo	Nammo AS, Norway
L	100% lead	FNB	FN Herstal, Belgium
SC	Soft lead core	Speer	Federal Cartridge Company, USA
FeC	Iron core	1)	Both calibres are to be used In these stages
SCP	Soft lead core with steel penetrator	2)	Twist length 178 mm ± 5%
HC	Hard steel core	3)	Twist length 254 mm ± 5%
WC	Wolfram carbide	4)	Twist length freely selectable
FMs	100% brass	5)	Test run with a 7.5 mm crossover
I	Incendiary	6)	Freely selectable shot distance Suitable Hits are to be assured with regard to speed, oscillation and point of impact
		K	Handgun
		L	Rifles/shotguns