



Target Restrictions

Source: RMTK-WDZ Tool Version 11 - 24 Feb 2010

These are the GENERAL restrictions. If employing anything other than training ordnance (BDU-33/Mk-76 or BDU-48/Mk-106) call to verify authorized run-ins and targets.



AC-130

Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-7, T-17, T-25, strafe pits	25mm	-10° to -45°	1000 – 5000	Orbit	Sidefire	Circling	4,6,7		Verify location of manned sites before firing
All except T-7, T-17, T-25, strafe pits	25mm	-10° to -45°	5000 – 15,000	Orbit	Sidefire	Circling	4,6,7		Verify location of manned sites before firing



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-25	Sub-scale	0° to -60°	200 – 13,000	Curvilinear Basic	Manual Computed	215° to 125°	1,3,4,6		None

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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-25	Sub-scale	0° to -60°	200 – 13,000	Pop-Up	Manual Computed	015° to 125°	1,2,4,6		None
All except T-25	Sub-scale	-5° to +45°	200 – 10,000	Loft / Toss	Computed	015° to 125° 215° to 325°	1,2,6,7		None
All except T-25	2.75" Rockets (TP)	0 to -30° No loft	1000 – 15,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	3,4,6,7		Max dive angle 30°
T-1, T-2, T-6, T-8N, T-8S, T-12, T-17	2.75" Rockets (WP)	0 to -30° No loft	1000 – 15,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	3,4,6,7		Max dive angle 30°
All except T-7, T-17	30mm	High Angle -15° to -60°	1500 – 10,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	3,4,6,9		High angle strafe on scored target: Note 9
Low Angle Strafe Targets	30mm	Low Angle 0° to -20°	75 – 2000	Curvilinear Basic	Manual Computed	070° to 090°	4		Only on low angle strafe targets.
Low Angle Strafe Target	30mm	Long Range Two Target 0° to -20°	75 – 3000	Curvilinear Basic	Manual Computed	070° to 090°	4		Only on low angle strafe targets.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Full-scale Inert HIGH DRAG	0 to -30° No loft	300 – 2000	Curvilinear Basic	Manual Computed	050° to 110° 230° to 290°	3,4,5, 6,10		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Full-scale Inert HIGH DRAG	0 to -30° No loft	300 – 2000	Pop-Up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,10		None



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Full-scale Inert LOW DRAG	0 to -30° No loft	300 – 3000	Curvilinear Basic	Manual Computed	050° to 110° 230° to 290°	3,4,5,6		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Full-scale Inert LOW DRAG	0 to -30° No loft	300 – 3000	Pop-Up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5,6		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Full-scale Inert LOW DRAG	-20° to -60° No loft	2000 – 13,000	Curvilinear Basic	Manual Computed	050° to 110° 230° to 290°	3,4,5,6,7		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10 Inert GBU-12	0 to -30° No loft	1000 – 5000	Level Dive-Glide	Manual Computed	050° to 110° 230° to 290°	3,4,5,6,7		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10 Inert GBU-12	0 to -60° No loft	5000 – 15,000	Level Dive-Glide	Manual Computed	050° to 110° 230° to 290°	3,4,5,6,7		None



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-25	Sub-scale	+5° to -30°	200 – 5000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	1,3,4,6		None
All except T-25	Sub-scale	+5° to -30°	200 – 5000	Pop-Up Fly-Up	Manual Computed	035° to 125°	1,2,3,4,6		None
All except T-25	Sub-scale	-20° to -60°	5000 – 15,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	1,3,4,6		None
All except T-25	Sub-scale	-20° to -60°	5000 – 15,000	Pop-Up Fly-Up	Manual Computed	035° to 125°	1,2,3,4,6		None
All except T-25	Sub-scale	-5° to +45°	500 - 5000	Loft / Toss	Computed	035° to 125° 215° to 305°	1,2,3,4, 6,7		Pop-up or loft deliveries restricted to west-to-east
All except T-4, T-5, T-14, T-15, T-16, T-25	2.75" Rockets (TP)	0 to -30° No loft	1000 – 15,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	3,4,6,7		Max dive angle 30°
T-1, T-2, T-6, T-8N, T-8S, T-12, T-17	2.75" Rockets (WP)	0 to -30° No loft	1000 – 15,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	3,4,6,7		Max dive angle 30°
T-2, T-12, T-20 thru T-24	2.75" Rockets (TP / WP)	0 to +45	500 – 5000	Loft	Computed	050° to 110°	2,3,4,6,7		WP rounds restricted to T-2 and T-12 only
All except T-7, T-17. Scored HAS Target.	20mm	-15° to -60°	1000 – 10,000	High Angle Strafe	Manual Computed	035° to 125° 215° to 305°	3,4,6,9		Prior coordination required: T-4, T-5 east-to-west; T-14, T-15, T-16 west-to-east°

UNCLASSIFIED



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
Low Angle Strafe Targets	20mm	0° to -20°	75 – 2000	Low Angle Strafe	Manual Computed	070° to 090°	4		Only on low angle strafe targets.
T-2, T-8S, T-12, T-22 thru T-24	Inert MK-82 AIR HD	0° to -15°	200 – 2500	Curvilinear Basic Pop-up	Manual Computed	060° to 100°	2,4,5,6, 8,10		Prohibited on T-8N, T-20, T-21
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 AIR HD	-10° to -30°	300 – 3000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,4,5,6, 8,10		Prior coordination required. Prohibited east-to-west on T-23 and T-24
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	0 to -10°	500 – 3000	Curvilinear Basic Pop-up	Manual Computed	065° to 095°	2,3,4,5, 6,8		Prior coordination required. Prohibited east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	0° to -30°	1500 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,8		Prior coordination for east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	-5° to +45°	1000 – 5000	Loft Low Alt. Toss	Computed	050° to 110° 230° to 290°	2,3,4,5, 6,7,8		Prior coordination for east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD MK-84 LD	-15° to -60°	2000 – 15,000	Curvilinear Basic	Manual Computed	050° to 110° 230° to 290°	2,3,4,5,6		None.
T-2, T-12, T-20 thru T-24	Inert MK-84 AIR HD	-10° to -30°	300 – 3000	Curvilinear Basic Pop-up	Manual Computed	060° to 100° 240° to 280°	2,3,4,5, 6,8,10		Prior coordination required for all events.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-84 LD	0° to -30°	1500 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,8		Prior coordination required T-8N, T-8S. Prohibited east-to-west on T-23 and T-24



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-12, T-20 thru T-22	Inert MK-84 LD	0° to -15°	200 – 2500	Curvilinear Basic Pop-up	Manual Computed	065° to 095°	2,3,4,5,6,8		Prior coordination required for all events.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-84 LD	-5° to +45°	1000 – 5000	Loft Low Alt. Toss	Computed	050° to 110° 230° to 290°	2,3,4,5,6,7,8		Prior coordination required. Prohibited east-to-west on T-23 and T-24
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10	0° to -30°	1000 – 5000	Level Dive	Computed	060° to 100° 240° to 280°	3,4,5,6,7,8		Prior coordination required. Prohibited east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10	0° to -30°	5000 – 15,000	Dive-Glide	Computed	060° to 100° 240° to 280°	3,4,5,6,7,8		None
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10	0° to -15°	5000 – 15,000	Level Dive	Computed	060° to 100° 240° to 280°	3,4,5,6,7,8		Prior coordination for east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12	0° to -30°	1000 – 5000	Level Dive	Computed	060° to 100° 240° to 280°	3,4,5,6,7,8		Prior coordination for east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12	0° to -30°	5000 – 15,000	Dive-Glide	Computed	060° to 100° 240° to 280°	3,4,5,6,7		Prior coordination for east-to-west on T-8N and T-8S.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12	0° to -15°	5000 – 15,000	Level Dive	Computed	060° to 100° 240° to 280°	3,4,5,6,7		Prior coordination for T-2, T-8N, T-8S, T-12, T-20, T-21 west-to-east



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-25	Sub-scale	0 to -60°	200 – 18,000	Curvilinear Basic	Manual Computed	035° to 125° 215° to 305°	1,3,4,6		None
All except T-25	Sub-scale	0 to -60°	200 – 18,000	Pop-Up Fly-Up	Manual Computed	035° to 125°	1,2,3,4,6		None
All except T-25	Sub-scale	-5 to +45°	1000 – 5000	Loft / Toss	Manual Computed	035° to 125° 215° to 305°	1,2,3,4,6		None
All except T-7, T-17. Scored HAS Target.	20mm	High Angle -15° to -60°	2000 – 10,000	High Angle Strafe	Manual Computed	050° to 110° 230° to 290°	3,4,6,9		Prohibited on T-14 east-to-west.
Low Angle Strafe Targets	20mm	Low Angle 0° to -20°	75 – 2500	Low Angle Strafe	Manual Computed	070° to 090°	4		Only on low angle strafe targets.
T-2, T-6, T-8N/S, T-9, T-12, T-17, T-20 thru T-24	LGTR	0° to -30°	1000 – 5000	Level Dive-Glide	Computed	050° to 110° 230° to 290°	2,3,4,5, 6,8		Pop-ups restricted to 080° ± 30°
T-2, T-6, T-8N/S, T-9, T-12, T-17, T-20 thru T-24	LGTR	0° to -30°	5000 – 15,000	Level Dive-Glide	Computed	065° to 095° 245° to 275°	2,3,4,5, 6,8		Prohibited west-to- east on T-8N, T-8S, and T-9.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12 GBU-16	0 to -30°	1000 – 5000	Low-Level Dive-Glide	Manual Computed	060° to 100° 240° to 280°	3,4,5,6		Prior coordination required for T-8N / T- 8S west-to-east.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12 GBU-16	0 to -30°	5000 – 15,000	Medium Altitude Dive-Glide	Manual Computed	060° to 100° 240° to 280°	3,4,5,6,7		Prior coordination required all targets.



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-12 GBU-16	0° to -15°	5000 – 15,000	Medium Altitude Level-Dive	Manual Computed	060° to 100° 240° to 280°	3,4,5,6,7		Prior coordination required west-to-east. T-24 west-to-east prohibited.
T-2, T-8S, T-12, T-20 thru T-23	Inert MK-82 AIR HD	0° to -15°	200 – 2000	Low Level High Drag	Manual Computed	065° to 095°	2,3,4,5, 6,7,8,10		Footprint requires prior coordination for all targets.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-83 AIR HD	0° to -15°	200 – 2000	Low Level High Drag	Manual Computed	065° to 095°	2,3,4,5, 6,7,8,10		Footprint requires prior coordination for all targets.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	0° to -15°	500 – 2000	Curvilinear Basic Pop-up	Manual Computed	065° to 095° 245° to 275°	2,3,4,5, 6,8		Prior coordination required.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-83 LD	0° to -15°	500 – 2000	Curvilinear Basic Pop-up	Manual Computed	065° to 095°	2,3,4,5, 6,8		Prior coordination required. Prohibited east-to-west.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	-10° to -30°	1000 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,7,8		Prior coordination required for T-8N / T-8S east-to-west.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-83 LD	0° to -30°	1000 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,7,8		Prior coordination required for T-8N / T-8S east-to-west; T-20, T-21 west-to-east.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-84 LD	0° to -30°	1000 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,7,8		Prior coordination required west-to-east. T-24 west-to-east prohibited.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	-5° to +45°	1000 – 5000	LAT Loft	Manual Computed	050° to 110° 230° to 290°	2,3,4,5, 6,7,8		Prior coordination for T-8N and T-8S east-to-west.



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-83 LD	-5° to +45°	1000 – 5000	LAT Loft	Manual Computed	060° to 100° 240° to 280°	2,3,4,5,6,7,8		Prior coordination for T-8N and T-8S all headings, T-20 and T-21 west-to-east.
T-2, T-12, T-20, T-21	Inert MK-84 LD	-5° to +45°	1000 – 5000	LAT Loft	Manual Computed	060° to 100°	2,3,4,5,6,7,8		Only targets and run-in authorized due to off-range impacts.
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 MK-83 MK-84	-20° to -60°	3000 – 15,000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,5,6,7		None
All except T-4, T-5, T-14, T-15, T-16, T-25	5" Rockets (TP)	0 to -60° No loft	1000 – 5000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,6,7		None
All except T-4, T-5, T-14, T-15, T-16, T-25	5" Rockets (TP)	0 to -60° No loft	5000 – 15,000	Curvilinear Basic Pop-up	Manual Computed	050° to 110° 230° to 290°	2,3,4,6,7		None



AH-64

Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-10, T-11, T-12, T-20 thru T-24	30mm	-1° to -15°	50-500	Level	Manual Computed	050° to 110° 230° to 290°	4,6,7		Only South OP can be manned
All except T-1, T-4, T-5, T-18, T-25	2.75" Rockets	-1° to -15°	50-500	Level	Manual Computed	050° to 110°	4,6,7		Only South OP can be manned



B-1

Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
All except T-25	Sub-scale	0° to -5°	300 – 3000	Low Level	Computed	050° to 110° 230° to 290°	1,4,6,7		Do not exceed 650 KTAS at release
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD MK-84 LD	0° to -5°	3000 – 15,000	Medium Altitude Level	Computed	065° to 095° 245° to 275°	1,4,5,6,7		Do not exceed 650 KTAS at release



B-2

Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD	0°	500 - 5000	Low Level	Computed	065° to 095°	4,5,6,7,8		Prior coordination required all targets.
T-2, T-12, T-20 thru T-24	Inert MK-82 LD	0°	500 - 5000	Low Level	Computed	245° to 275°	4,5,6,7,8		Prior coordination required except for T-23 and T-24
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD MK-84 LD	0°	5000 – 15,000	Medium Altitude Level	Computed	065° to 095° 245° to 275°	4,5,6,7		600 KTAS max at release



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Target	Weapons	Release Angle	Release Altitudes (AGL)	Pattern	Delivery Mode	Run-In Heading	Notes	Attack Axis Graphic	Additional Restrictions
T-2, T-8N, T-8S, T-12, T-20 thru T-23 (no T-24)	Inert MK-82 AIR HD	0° to -5°	500 – 3000	Low Level	Computed	065° to 095° 245° to 275°	4,5,6,7		Prohibited east-to-west on T-2, T-8N, T-8S, T-12, and T-20.
T-2, T-8, T-12	Inert MK-82 LD	0° to -5°	500 – 5000	Low Level	Computed	065° to 095°	4,5,6,7		Max 600 KTAS at release
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert MK-82 LD MK-84 LD	0°	5000 – 15,000	Medium Altitude Level	Computed	065° to 095° 245° to 275°	4,5,6,7		Max 600 KTAS at release
T-2, T-8N, T-8S, T-12, T-20 thru T-24	Inert GBU-10 GBU-12	0°	5000 – 15,000	Medium Altitude Level	Computed	065° to 095° 245° to 275°	4,5,6,7		Prohibited east-to-west on T-8N, T-8S.

Notes:

1. Sub-scale munitions include BDU-33, MK-76, etc.
2. Low-altitude ingress and pop-up or fly-up is restricted to west-to-east (080°) run-in headings.
3. Short distance from south boundary to target areas precludes north roll-in.
4. Do not over fly main or flank tower; do not release weapons when pointing at main or flank tower.
5. Heavyweight munitions, delivered from shallow dive angles, travel as far as 3000 meters and can change direction by as much as 30° after breaching.
6. These restrictions may be modified with the concurrence of Falcon Range after computing weapons footprints using the ACC-approved footprint program. Changes to the software release may supersede these restrictions.
7. Ensure releases take place within the restricted airspace.
8. Some weapons events place the weapons danger zones outside the impact area. These events can still be performed but prior coordination (as much as 8 weeks) is required with Fort Sill in order to allow the events. Users must call the range in advance to ensure the adjacent training areas are clear.
9. High-angle strafe on the scored HAS target is restricted to $080^{\circ} \pm 10^{\circ}$.
10. High-drag munitions utilize flagger or high-drag device failure to calculate footprint.