70" bow | Arrow Spec — 50lb bow at 32¾" Draw

Arrow Spec — 400 Spine (Preferred)

> Best choice for a newer shooter — stiffer spine is more forgiving of inconsistent release and anchor point while building form.

Spec	Value	Notes
Spine	**400**	Sits at the stiffer end of the 400–500 workable range for ~60lb effective — preferred for form forgiveness
Arrow overall length	**33" minimum**	At 32¾" AMO draw, a 32" or shorter arrow does not clear the riser safely at full draw
Shaft material	**Carbon fiber**	No fiberglass — not rated for this draw weight
Shaft inner diameter	6.2mm	Standard carbon ID
Point weight	**125gr preferred / 100gr minimum**	125gr pushes total weight to ~459gr, clearing the preferred floor with margin
Point type	Replaceable screw-in field tip (8-32 thread)	Swap for broadheads when hunting capability is needed
Fletching	**4" shield-cut natural turkey feather**	Real feather preferred — quieter, better clearance on a longbow shelf
Total arrow weight	**459gr preferred / 420gr minimum**	See GPP table below

Spec	Value	Notes
Straightness	**.006" or better**	Confirm with seller before buying — not all listings state this
Max safe draw weight rating	**Must cover 60lb minimum**	Reject any listing rated below 60lb

Arrow Spec — 500 Spine (Acceptable Alternative)

> More commonly available at budget price points. Works at ~60lb effective but sits at the more flexible end of the workable range — less forgiving of form errors than 400 spine.

Spec	Value	Notes
Spine	**500**	Toward the flexible end of the 400–500 workable range — acceptable but not preferred
Arrow overall length	**33" minimum**	Same safety requirement as 400 spine
Shaft material	**Carbon fiber**	No fiberglass
Point weight	**125gr preferred / 100gr minimum**	Same weight floor applies regardless of spine
Point type	Replaceable screw-in field tip (8-32 thread)	
Fletching	4" shield-cut natural turkey feather	
Total arrow weight	**459gr preferred / 420gr minimum**	Same GPP floor applies
Straightness	**.006" or better**	Confirm with seller
Max safe draw weight rating	**Must cover 60lb minimum**	

GPP Reference Table

> GPP = Grains Per Pound of effective draw weight. Based on ~60lb effective draw.

GPP Tier	Calculation	Total Grains	Use Case
Minimum safe floor	7 GPP × 60lb	**420gr**	Absolute minimum — do not go below this
Preferred target	8 GPP × 60lb	**480gr**	Sweet spot for target and hunting-capable use
Upper end	10 GPP × 60lb	**600gr**	Heavy traditional hunting setup — not required

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Bow Reference

Spec	Value
Bow	Galaxy Black Ridge 70" Longbow
Rated draw weight	50lb (at 28" AMO baseline)
True draw length	32¾" AMO (32" measured + 1¾" AMO standard)
Inches over 28" baseline	4.75"
Draw weight adjustment	+9.5lb (+2lb per inch over baseline)
Effective draw weight at full draw	**~59–60lb**
Shooter	Right-handed

Do NOT Buy

What	Why
600 spine or higher	Too weak/flexible for ~60lb effective draw — poor flight
300 spine or lower	Too stiff for this setup — arrow will not flex correctly through paradox
32" or shorter arrows	Point pulls back behind rest at full draw — safety risk at 32¾" draw
Arrows rated below 60lb draw weight	Outside manufacturer's stated safe range for your effective draw weight

What	Why
Fiberglass shafts	Not rated for this draw weight — risk of shattering
Field points for hunting	Field points are for target practice only — swap for broadheads when hunting

Draw Length Reference

Measurement	Value
Physical measured draw	32"
AMO standard adjustment	+1¾"
True AMO draw length	**32¾"**
Inches over 28" baseline	4.75"
Draw weight adjustment	+9.5lb
Effective draw weight	**~59–60lb**

Last updated: June 2026. Confirmed arrow example: 33" pure carbon, 400 spine, 100gr field tip, 434gr total weight — passes all specs. Upgrade to 125gr points recommended to reach preferred 459gr floor.

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