

Black Flag

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **89**
- SRM **63.5**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Liquid Extract	ekstrakt słodowy ciemny Bruntal	1.7 kg (50%)	90 %	621
Liquid Extract	ekstrakt słodowy Bursztynowy WES	1.7 kg (50%)	90 %	300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	50 g	60 min	13.4 %
Boil	Amarillo	30 g	15 min	7.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale