

Pigmentododatni Książę

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **60**
- SRM **32.3**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **2 %**
- Size with trub loss **20.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.1 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.3 liter(s)**
- Total mash volume **24.4 liter(s)**

Steps

- Temp **65 C**, Time **60 min**

Mash step by step

- Heat up **18.3 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **25.1 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (73.8%)	80 %	5
Grain	Carahell	0.6 kg (9.8%)	77 %	26
Grain	Carafa II special	0.5 kg (8.2%)	70 %	1150
Grain	Biscuit Malt	0.5 kg (8.2%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	50 g	60 min	12.4 %
Dry Hop	Książęcy	300 g	7 day(s)	8.3 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis