

IPA

- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **41**
- SRM **5.5**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **10 min** at **72C**
- Sparge using **15.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Monachijski typ II	1 kg (20%)	79 %	22
Grain	Viking Pale Ale malt	4 kg (80%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	40 g	50 min	8 %
Boil	lomik	40 g	10 min	4 %
Dry Hop	cascade	40 g	5 day(s)	6 %

Yeasts

Name	Type	Form	Amount	Laboratory
S-04	Ale	Slant	30 ml	---