

Single hop

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **34**
- SRM **5.3**
- Style **Imperial IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **2.4 liter(s) / kg**
- Mash size **17.4 liter(s)**
- Total mash volume **24.6 liter(s)**

Steps

- Temp **67 C**, Time **90 min**

Mash step by step

- Heat up **17.4 liter(s)** of strike water to **76.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **21.6 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	3 kg (41.4%)	79 %	10
Grain	Viking Pale Ale malt	1 kg (13.8%)	80 %	5
Grain	Viking Pilsner malt	3 kg (41.4%)	82 %	4
Grain	Pszeniczny	0.25 kg (3.4%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum de	23 g	60 min	10 %
Aroma (end of boil)	Cascade PL	20 g	15 min	7.6 %
Aroma (end of boil)	Cascade PL	20 g	5 min	7.6 %
Whirlpool	Cascade PL	60 g	15 min	7.6 %
Dry Hop	Cascade PL	40 g	4 day(s)	7.6 %