

White stockings

- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **41**
- SRM **4.9**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **70 min**
- Evaporation rate **8.5 %/h**
- Boil size **19 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **65 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **30 min** at **65C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **76C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.8 kg (76%)	80 %	5
Grain	Strzegom Pilzneński	1.2 kg (24%)	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	25 g	40 min	13 %
Boil	Centennial	10 g	10 min	10.5 %
Aroma (end of boil)	Equinox	10 g	0 min	13.1 %
Aroma (end of boil)	Mosaic	10 g	0 min	10 %
Dry Hop	Chinook	25 g	10 day(s)	13 %
Dry Hop	Equinox	10 g	10 day(s)	13.1 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	10 g	Safale