

Mild

- Gravity **9.3 BLG**
- ABV **3.6 %**
- IBU **14**
- SRM **18.7**
- Style **Mild**

Batch size

- Expected quantity of finished beer **34 liter(s)**
- Trub loss **5 %**
- Size with trub loss **35.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **43 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.6 liter(s)**
- Total mash volume **27.5 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **20.6 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **29.3 liter(s)** of **76C** water or to achieve **43 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.06 kg (44.4%)	80 %	5
Grain	Viking Vienna Malt	3.06 kg (44.4%)	79 %	7
Grain	Strzegom Karmel 300	0.51 kg (7.4%)	70 %	299
Grain	Strzegom Czekoladowy ciemny	0.25 kg (3.7%)	68 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	17 g	60 min	11 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM11 Wichrowe Wzgórza	Ale	Liquid	170 ml	Fermentum Mobile