

Mild

- Gravity **7.8 BLG**
- ABV **3 %**
- IBU **11**
- SRM **17.2**
- Style **Mild**

Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **4.5 liter(s) / kg**
- Mash size **15.8 liter(s)**
- Total mash volume **19.3 liter(s)**

Steps

- Temp **69 C**, Time **40 min**
- Temp **72 C**, Time **20 min**

Mash step by step

- Heat up **15.8 liter(s)** of strike water to **74.4C**
- Add grains
- Keep mash **40 min** at **69C**
- Keep mash **20 min** at **72C**
- Sparge using **15.5 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (57.1%)	80 %	5
Grain	Karmelowy Czerwony	0.6 kg (17.1%)	75 %	59
Grain	Strzegom Karmel 150	0.5 kg (14.3%)	75 %	150
Grain	Strzegom Czekoladowy jasny	0.4 kg (11.4%)	68 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	10 g	60 min	4.5 %
Boil	Fuggles	20 g	15 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM11 Wichrowe Wzgórza	Ale	Liquid	200 ml	Fermentum Mobile

Notes

- 16 st
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