

MILD.

- Gravity **9.8 BLG**
- ABV **3.8 %**
- IBU **23**
- SRM **19.6**
- Style **Mild**

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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **12 liter(s)**
- Total mash volume **16 liter(s)**

Steps

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

Mash step by step

- Heat up **12 liter(s)** of strike water to **80.7C**
- Add grains
- Keep mash **60 min** at **72C**
- Sparge using **17.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (50%)	80 %	5
Grain	Caramel/Crystal Malt - 60L	0.4 kg (10%)	74 %	118
Grain	Biscuit Malt	1 kg (25%)	79 %	45
Grain	Słód Caramunich Typ II Weyermann	0.4 kg (10%)	73 %	120
Grain	Czekoladowy	0.2 kg (5%)	60 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Aroma (end of boil)	Fuggles	15 g	10 min	4.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale