germańskie

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **29**
- SRM 3.2
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 90 min
- Evaporation rate 5 %/h
- Boil size 32.3 liter(s)

Mash information

- Mash efficiency 90 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.8 liter(s)
- Total mash volume 21 liter(s)

Steps

- Temp **50 C**, Time **30 min** Temp **65 C**, Time **30 min** Temp **70 C**, Time **30 min**
- Temp 76 C, Time 0 min

Mash step by step

- Heat up 15.8 liter(s) of strike water to 55C
- Add grains
- Keep mash 30 min at 50C
- Keep mash 30 min at 65C
- Keep mash 30 min at 70C
- Keep mash 0 min at 76C
- Sparge using 21.8 liter(s) of 76C water or to achieve 32.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	5 kg <i>(95.2%)</i>	81 %	4
Grain	Weyermann - Carapils	0.25 kg <i>(4.8%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	60 g	60 min	4.5 %
Boil	Saaz (Czech Republic)	20 g	15 min	4.5 %
Boil	Saaz (Czech Republic)	30 g	5 min	4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	14.38 g	Fermentis