Włochy

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU 29
- SRM 3.3
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 40 liter(s)
- Trub loss 5 %
- Size with trub loss 44 liter(s)
- · Boil time 60 min
- Evaporation rate 13 %/h
- Boil size 54.2 liter(s)

Mash information

- Mash efficiency 82 %
- Liquor-to-grist ratio 3.3 liter(s) / kg Mash size 29.7 liter(s)
- Total mash volume 38.7 liter(s)

Steps

- Temp **62 C**, Time **45 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 29.7 liter(s) of strike water to 68.4C
- Add grains
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 5 min at 78C
- Sparge using 33.5 liter(s) of 76C water or to achieve 54.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	8.5 kg <i>(94.4%)</i>	81 %	4
Grain	Cara-Pils/Dextrine	0.5 kg <i>(5.6%)</i>	72 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Agnus	10 g	60 min	14 %
Boil	Agnus	30 g	30 min	14 %
Boil	Saaz (Czech Republic)	30 g	30 min	3 %
Aroma (end of boil)	Hallertau Mittelfruh	50 g	0 min	3 %
Dry Hop	Hallertau Mittelfruh	50 g	3 day(s)	3 %
Dry Hop	Agnus	100 g	3 day(s)	14 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Us-05	Ale	Dry	22 g	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Fining	whirfloc	1.25 g	Boil	15 min