PILS

- · Gravity 11 BLG
- ABV ----
- IBU **55**
- SRM **3.9**
- 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 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.8 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 19 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 63 C, Time 30 min
 Temp 72 C, Time 30 min
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 14 liter(s) of strike water to 57.7C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 63C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 22.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4.4 kg (88%)	80 %	4
Grain	Monachijski	0.6 kg <i>(12%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	10 %
Boil	Marynka	25 g	30 min	10 %
Boil	Lublin (Lubelski)	38 g	20 min	4 %