pils II

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU 35
- SRM 4
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 56 liter(s)
- Trub loss 5 %
- Size with trub loss 58.8 liter(s)
- Boil time 80 min
- Evaporation rate 10 %/h
- Boil size **73 liter(s)**

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 43.8 liter(s)
- Total mash volume 56.3 liter(s)

Steps

- Temp **52 C**, Time **5 min** Temp **62 C**, Time **20 min** Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 43.8 liter(s) of strike water to 56.6C
- Add grains
- Keep mash 5 min at 52C
- Keep mash 20 min at 62C
- Keep mash 45 min at 72C
- Keep mash 5 min at 78C
- Sparge using 41.7 liter(s) of 76C water or to achieve 73 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	11 kg (88%)	80 %	4
Grain	Monachijski	1.5 kg <i>(12%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	magnum	65 g	60 min	11.5 %
Boil	Hellertau Hersbrucker	50 g	10 min	4.3 %
Boil	Hellertau Hersbrucker	50 g	5 min	4.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager S-23	Lager	Slant	300 ml	Fermentis Division of S.I.Lesaffre