PILS

- Gravity 11.7 BLG
- ABV **4.7** %
- IBU 33
- SRM **3.5**
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 1 %
- Size with trub loss 25.3 liter(s)
- Boil time 90 min
- Evaporation rate 7 %/h
- Boil size 28.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 26.3 liter(s)

Steps

- Temp **50 C**, Time **20 min** Temp **62 C**, Time **40 min** Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 21 liter(s) of strike water to 53.8C
- Add grains
- Keep mash 20 min at 50C
- Keep mash 40 min at 62C
- Keep mash 30 min at 72C
- Keep mash 10 min at 76C
- Sparge using 13 liter(s) of 76C water or to achieve 28.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg <i>(95.2%)</i>	80 %	4
Grain	Weyermann - Carapils	0.25 kg <i>(4.8%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Willamette	50 g	60 min	5 %
Boil	Willamette	25 g	15 min	5 %
Boil	Willamette	15 g	5 min	5 %
Aroma (end of boil)	Premiant	10 g	5 min	2.53 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	23 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
71.				_

Fig. in a	\\/\ _: £	ΙΛ Γ	D = !!	10 min
l Fining	l Whirlfloc T	1 U.5 a	l Boil	I 10 MIN
1		1 3		