Trzy słody

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **19**
- SRM **5.2**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 12.5 liter(s)
- Trub loss 2 %
- Size with trub loss 12.8 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 16.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 15.8 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 77 C, Time 5 min

Mash step by step

- Heat up 12.3 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 5 min at 77C Sparge using 8 liter(s) of 76C water or to achieve 16.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Rahr - Premium Pilsner Malt	2 kg (57.1%)	80 %	4
Grain	Strzegom Monachijski typ I	0.6 kg <i>(17.1%)</i>	79 %	16
Grain	Strzegom Wiedeński	0.6 kg <i>(17.1%)</i>	79 %	10
Grain	Weyermann - Carapils	0.3 kg (8.6%)	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	50 min	11 %
Aroma (end of boil)	Saaz (Czech Republic)	7 g	5 min	4.5 %
Aroma (end of boil)	Sybilla	7.5 g	5 min	3.5 %
Dry Hop	Saaz (Czech Republic)	10 g	5 day(s)	4.5 %
Dry Hop	Sybilla	10 g	5 day(s)	3.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
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