- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **20**
- SRM **5.3**
- Style Other Smoked Beer

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 44 C, Time 15 min Temp 64 C, Time 45 min Temp 72 C, Time 20 min

- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up 16.5 liter(s) of strike water to 48C
- Add grains
- Keep mash 15 min at 44C
- Keep mash 45 min at 64C
- Keep mash 20 min at 72C
- Keep mash 0 min at 78C
- Sparge using 16.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny wędz	3.5 kg <i>(63.6%)</i>	85 %	10
Grain	Strzegom Pilzneński	2 kg <i>(36.4%)</i>	80 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	1000 ml	Fermentum Mobile