# Podwędzane żyto

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **14**
- SRM **13.9**
- Style Roggenbier

#### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

#### **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18.4 liter(s)
- Total mash volume 24.5 liter(s)

#### **Steps**

- Temp **52 C**, Time **10 min** Temp **62 C**, Time **30 min**
- Temp 72 C, Time 30 min

## Mash step by step

- Heat up 18.4 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Sparge using 16.7 liter(s) of 76C water or to achieve 29 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Żytni	2.5 kg <i>(40.8%)</i>	85 %	8
Grain	Weyermann - Smoked Malt	1 kg <i>(16.3%)</i>	81 %	6
Grain	Strzegom Monachijski typ I	1 kg <i>(16.3%)</i>	79 %	16
Grain	Pilzneński	0.78 kg <i>(12.7%)</i>	81 %	4
Grain	Weyermann - Pale Wheat Malt	0.5 kg (8.2%)	85 %	5
Grain	Caraaroma	0.3 kg <i>(4.9%)</i>	78 %	400
Grain	Carafa II	0.05 kg <i>(0.8%)</i>	70 %	812

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Mandarina Bavaria	10 g	60 min	10 %
Boil	Mandarina Bavaria	10 g	15 min	10 %

## **Yeasts**

Name	Type	Form	Amount	Laboratory
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