

### 3# Zadyma w stylu Grodziskie

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- Gravity **8.3 BLG**
- ABV **3.2 %**
- IBU **16**
- SRM **2.6**
- Style **Grodziskie/Graetzer**

#### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **23.1 liter(s)**

#### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.8 liter(s)**
- Total mash volume **12.6 liter(s)**

#### Steps

- Temp **52 C**, Time **20 min**
- Temp **68 C**, Time **60 min**
- Temp **76 C**, Time **5 min**

#### Mash step by step

- Heat up **9.8 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **60 min** at **68C**
- Keep mash **5 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **23.1 liter(s)** of wort

#### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszoniczny	1.4 kg (50%)	85 %	4
Grain	Słód Wędzony Steinbach	0.8 kg (28.6%)	80 %	5
Grain	Pilzneński	0.6 kg (21.4%)	81 %	4

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	60 min	4 %
Boil	Lublin (Lubelski)	20 g	15 min	4 %

#### Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11 g	Safbrew

#### Notes

- Refermentacja - 3g cukru / butelkę  
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