

## american wheat

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- Gravity **10.7 BLG**
- ABV **4.3 %**
- IBU **27**
- SRM **3.6**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **10 %**
- Size with trub loss **25.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **4 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **22.5 liter(s)**

### Steps

- Temp **66 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **18 liter(s)** of strike water to **71.8C**
- Add grains
- Keep mash **45 min** at **66C**
- Keep mash **15 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.9 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilsneński 6-rzędowy	2.5 kg (55.6%)	80 %	5
Grain	Strzegom Pszeniczny	2 kg (44.4%)	81 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	16.5 %
Boil	Amarillo	15 g	5 min	8.9 %
Aroma (end of boil)	Amarillo	15 g	0 min	8.9 %

### Yeasts

Name	Type	Form	Amount	Laboratory
us05	Ale	Slant	200 ml	fermentis