

# No idea 2019

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- Gravity **7.6 BLG**
- ABV **2.9 %**
- IBU **22**
- SRM **3.4**
- Style **Grodziskie/Graetzer**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **10 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **29.5 liter(s)**

## Mash information

- Mash efficiency **68 %**
- Liquor-to-grist ratio **7 liter(s) / kg**
- Mash size **26.6 liter(s)**
- Total mash volume **30.4 liter(s)**

## Steps

- Temp **38 C**, Time **20 min**
- Temp **51 C**, Time **20 min**
- Temp **66 C**, Time **20 min**
- Temp **70 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **26.6 liter(s)** of strike water to **39.3C**
- Add grains
- Keep mash **20 min** at **38C**
- Keep mash **20 min** at **51C**
- Keep mash **20 min** at **66C**
- Keep mash **60 min** at **70C**
- Keep mash **10 min** at **78C**
- Sparge using **6.7 liter(s)** of **76C** water or to achieve **29.5 liter(s)** of wort

## Fermentables

| Type  | Name                               | Amount        | Yield | EBC |
|-------|------------------------------------|---------------|-------|-----|
| Grain | Grodziski pszeniczny wędzony dębem | 3.8 kg (100%) | 80 %  | 6   |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Sybilla | 10 g   | 30 min | 7 %        |
| Boil    | Sybilla | 15 g   | 30 min | 7 %        |
| Boil    | Sybilla | 15 g   | 15 min | 7 %        |

## Yeasts

| Name                 | Type | Form  | Amount | Laboratory |
|----------------------|------|-------|--------|------------|
| Danstar - Nottingham | Ale  | Slant | 80 ml  | Danstar    |

## Extras

| Type   | Name      | Amount | Use for | Time   |
|--------|-----------|--------|---------|--------|
| Fining | whirlfloc | 3 g    | Boil    | 15 min |