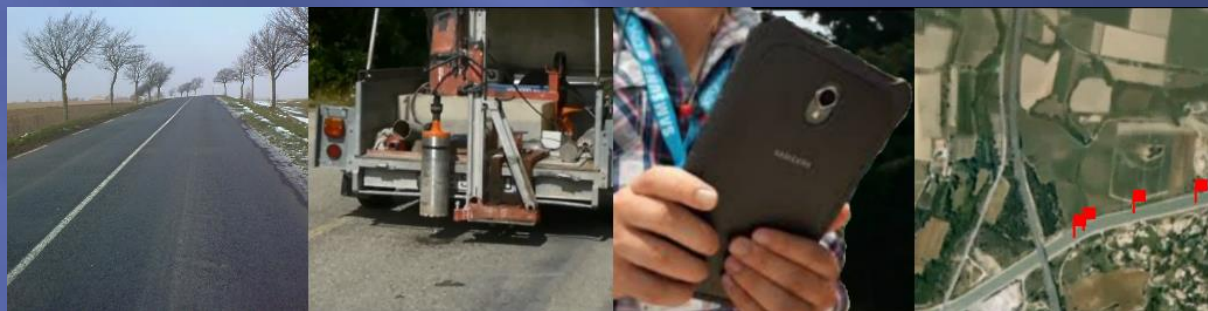


Session 4. De ALIZE à ERASMUS et vice_versa



Démarche

- ▣ Partir du modèle ALIZE du partenaire
- ▣ Formaliser le cas ERASMUS associé
- ▣ Calculer le modèle ALIZE-ERASMUS

Etape 1

- ▣ Considérer le modèle ALIZE:
 - ▣ Epaisseurs,
 - ▣ modules,
 - ▣ interfaces,
 - ▣ contraintes, ...

Modele ALIZE

ENDUIT-BICOUCHE (2012)	1.0 cm	1000.0 MPa	n= 0.25	ept= 182.5 10 ⁻⁶	Collage
ENDUIT-EPAIS (1994)	1.5 cm	1000.0 MPa	n= 0.25	ept= 141.6 10 ⁻⁶	Collage
Grave bitume (1994)	10.0 cm	9600.0 MPa	n= 0.35	ept= 139.2 10 ⁻⁶	Collage
GRAVE-NON-TRAITE (1971)	10.0 cm	480.0 MPa	n= 0.35	epz= 356.6 10 ⁻⁶	Collage
	10.0 cm	480.0 MPa	n= 0.35	epz= 252.8 10 ⁻⁶	Collage
	10.0 cm	256.0 MPa	n= 0.35	epz= 315.7 10 ⁻⁶	Collage
	10.0 cm	128.0 MPa	n= 0.35	epz= 391.1 10 ⁻⁶	Collage
Sol A2 D = 53 mm/100 RC = 336 m	600.0 cm	64.0 MPa	n= 0.35	epz= 489.5 10 ⁻⁶	Collage
		10000.0 MPa	n= 0.35		Collage

Etape 2

- ▣ Formaliser le cas ERASMUS
 - ▣ Chaussée : couche (épaisseur, nature, année, ...)
 - ▣ Carottages
 - ▣ Trafic
 - ▣ Dégradations

Modele ERASMUS - C1

Erasmus 5 [forum]

Fichier Cas Moteur Configuration Panneaux Paramétrer ?

Cas (Cas Erasmus) - ?? : ??? 6+340 1+26 / C1 / C1 - forum

Général

Nom: C1 Localisation: Supprimer

GPS

pr: 6

Latitude

abs: 340

Longitude

Construction ? ☐

Voie: ☐ Position dans voie: ☐

Longueur (m): 5304

Structure

2021

Affichage proportionnel

Voie 1

ENDUIT-BICOUCHE - 1,0 cm - 9 ans

ENDUIT-EPAIS - 1,5 cm - 27 ans

grave bitume - 10,0 cm - 27 ans

ENDUIT-BICOUCHE - 1,0 cm - 11 ans

GRAVE-NON-TRAITE - 40,0 cm - 50 ans

fin: A2

Essais: Voie 1

53 777 777

Déflexion

Carottage

Courant: Essai (Déflexion)

Rayon de courbure (m)

Valeurs des pics (mm/100)

Valeur écartée (mm/100)

Valeur (mm/100) 53

Dégradations: Voie 1

Année du relevé: 2021

2021

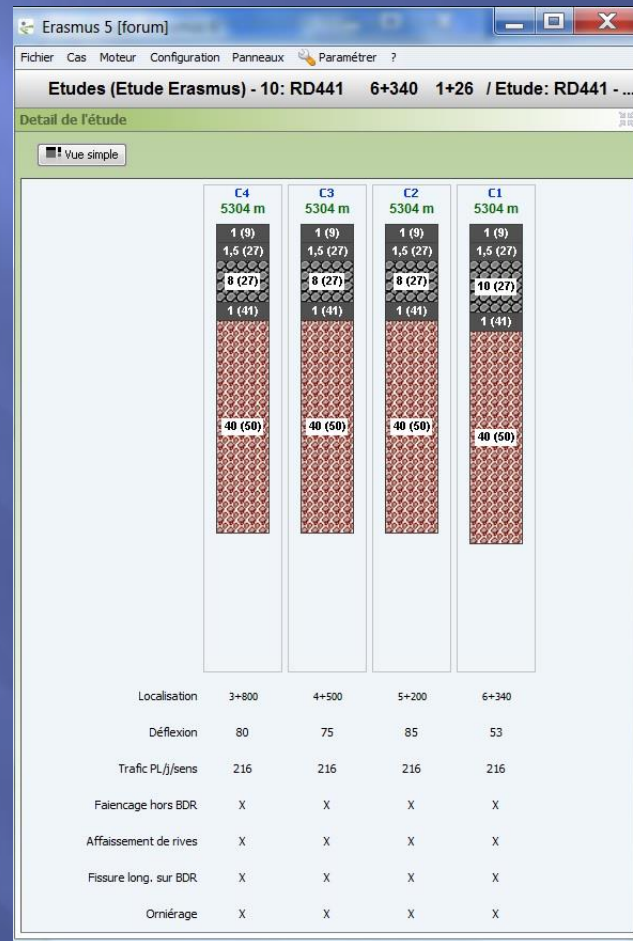
Faïencage hors BDR

Affaissement de rives

Fissure longitudinale sur BDR

Omiérage

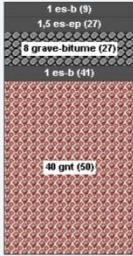
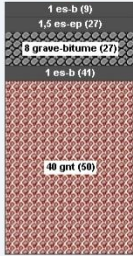
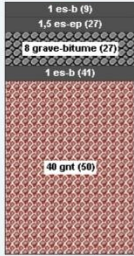
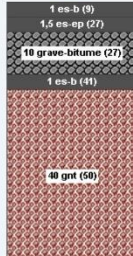
Modele ERASMUS – C1-4



Etape 3

Calculer les modèles ALIZE-ERASMUS

Gammes de solution

Erasmus 5 [forum]				
Fichier Cas Moteur Configuration Panneaux Paramétrer ?				
Résultats (Etude Erasmus) - 10: RD441 6+340 1+26 / Etude: RD441 - 6+340 - 1+26 - forum				
Résultats d'étude				
<p>Vue gamme de solutions</p> <p> <input type="button" value="Vue détaillée"/> <input type="button" value="Tri: Coût"/> </p> <p> <input type="button" value="Export Xls"/> <input type="button" value="Export Résumé Pdf"/> </p> <p> <input type="button" value="Bilan écologique"/> <input type="button" value="Export Synthèse Pdf"/> </p> <p> <input type="button" value="Export Détail Pdf"/> </p>	<p>C4 5304 m</p> 	<p>C3 5304 m</p> 	<p>C2 5304 m</p> 	<p>C1 5304 m</p> 
<p>CR: 2,5 bbtm10 CB: gb-0/14-C3 Surlévation: 10,5 cm 479 €/ml</p>	<p>2021: BB-TRES-HINCE-0/10 (2,5 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>479 €/ml 415 M3/ml # 23 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB-TRES-HINCE-0/10 (2,5 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>479 €/ml 415 M3/ml # 23 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB-TRES-HINCE-0/10 (2,5 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>479 €/ml 415 M3/ml # 23 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB-TRES-HINCE-0/10 (2,5 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>479 €/ml 415 M3/ml # 23 Kg.eq.CO2/ml # 0 t gra/ml</p>
<p>CR: 6 bbsg-0/10-C3 CB: retraitementulsionH3R1 Surlévation: 6 cm 665 €/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: RETRAITEMENT-EMULSION-H3R1 (5,0 cm)</p> <p>643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: RETRAITEMENT-EMULSION-H3R1 (5,0 cm)</p> <p>643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: RETRAITEMENT-EMULSION-H3R1 (7,0 cm)</p> <p>734 €/ml 270 M3/ml # 15 Kg.eq.CO2/ml # 0 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: RETRAITEMENT-EMULSION-H3R1 (5,0 cm)</p> <p>643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml</p>
<p>CR: 6 bbsg-0/10-C3 CB: gb-0/14-C3 Surlévation: 14 cm 668 €/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml</p>	<p>2021: BB5G-0/10-CLASSE-3 (6,0 cm) 2021: GB-0/14-CLASSE-3 (8,0 cm)</p> <p>668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml</p>
<p>CR: 2,5 bbtm10 CB: retraitementulsionH3R1 Surlévation: 2,5 cm</p>				<p>2021: BB-TRES-HINCE-0/10 (2,5 cm) 2021: RETRAITEMENT-EMULSION-H3R1 (5,0 cm)</p> <p>453 €/ml 124 M3/ml # 7 Kg.eq.CO2/ml # 0 t gra/ml</p>

Modeles ALIZE-ERASMUS

Erasmus 5 [forum]		Fichier Cas Moteur Configuration Panneaux Paramètre ?																																																																										
Résultats (Etude Erasmus) - 10: RD441 6+340 1+26 / Etude: RD																																																																												
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<div><div><div>Vue gamme de solutions</div><div><div>Vue détaillée</div><div>Tri: Coût</div></div><div><div>Export Xls</div><div>Export Résumé Pdf</div></div><div><div>Bilan écologique</div><div>Export Synthèse Pdf</div></div><div><div>Export Détail Pdf</div></div></div><div><div>C4</div><div>5304 m</div><div>1 es-b (9)</div><div>1,5 es-ep (27)</div><div>8 grave-bitume (27)</div><div>1 es-b (41)</div><div>40 gnt (50)</div></div></div>		<table><tr><td>BB très mince 0/10 (2021)</td><td>2.5 cm</td><td>3000.0 MPa</td><td>n= 0.35</td><td>Compression</td><td>Collage</td><td></td></tr><tr><td>gb-0/14-C3 (2021)</td><td>8.0 cm</td><td>9000.0 MPa</td><td>n= 0.35</td><td>ept= 84.1 10⁻⁶ (Adm = 118.4 10⁻⁶) sigt= 0.923636 MPa (Adm = 2 MPa)</td><td>Collage</td><td>b=0.2 Kr= 0.843 Sg=0.3 E6=90 Kc= 1.3 R1=12 Ks=1.000 Sh=1</td></tr><tr><td>ENDUIT-BICOUCHE (2012)</td><td>1.0 cm</td><td>1000.0 MPa</td><td>n= 0.25</td><td>ept= 84.1 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td>ENDUIT-EPAIS (1994)</td><td>1.5 cm</td><td>1000.0 MPa</td><td>n= 0.25</td><td>ept= 78.5 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td>Grave bitume (1994)</td><td>8.0 cm</td><td>2000.0 MPa</td><td>n= 0.35</td><td>ept= 154.9 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td rowspan="4">GRAVE-NON-TRAITE (1971)</td><td>10.0 cm</td><td>480.0 MPa</td><td>n= 0.35</td><td>epz= 269.7 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td>10.0 cm</td><td>381.0 MPa</td><td>n= 0.35</td><td>epz= 231.8 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td>10.0 cm</td><td>190.0 MPa</td><td>n= 0.35</td><td>epz= 278.7 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td>10.0 cm</td><td>95.0 MPa</td><td>n= 0.35</td><td>epz= 333.1 10⁻⁶</td><td>Collage</td><td></td></tr><tr><td rowspan="2">Sol A2 D = 53 mm/100 RC = 399 m</td><td>600.0 cm</td><td>48.0 MPa</td><td>n= 0.35</td><td>epz= 415.3 10⁻⁶ (Adm = 503.2 10⁻⁶)</td><td>Collage</td><td>A= 12000 SGT Qg= 0.00 Qm= 0.00 alpha= 0.222 OPF= 0.00</td></tr><tr><td></td><td>10000.0 MPa</td><td>n= 0.35</td><td></td><td>Collage</td><td></td></tr></table>		BB très mince 0/10 (2021)	2.5 cm	3000.0 MPa	n= 0.35	Compression	Collage		gb-0/14-C3 (2021)	8.0 cm	9000.0 MPa	n= 0.35	ept= 84.1 10 ⁻⁶ (Adm = 118.4 10 ⁻⁶) sigt= 0.923636 MPa (Adm = 2 MPa)	Collage	b=0.2 Kr= 0.843 Sg=0.3 E6=90 Kc= 1.3 R1=12 Ks=1.000 Sh=1	ENDUIT-BICOUCHE (2012)	1.0 cm	1000.0 MPa	n= 0.25	ept= 84.1 10 ⁻⁶	Collage		ENDUIT-EPAIS (1994)	1.5 cm	1000.0 MPa	n= 0.25	ept= 78.5 10 ⁻⁶	Collage		Grave bitume (1994)	8.0 cm	2000.0 MPa	n= 0.35	ept= 154.9 10 ⁻⁶	Collage		GRAVE-NON-TRAITE (1971)	10.0 cm	480.0 MPa	n= 0.35	epz= 269.7 10 ⁻⁶	Collage		10.0 cm	381.0 MPa	n= 0.35	epz= 231.8 10 ⁻⁶	Collage		10.0 cm	190.0 MPa	n= 0.35	epz= 278.7 10 ⁻⁶	Collage		10.0 cm	95.0 MPa	n= 0.35	epz= 333.1 10 ⁻⁶	Collage		Sol A2 D = 53 mm/100 RC = 399 m	600.0 cm	48.0 MPa	n= 0.35	epz= 415.3 10 ⁻⁶ (Adm = 503.2 10 ⁻⁶)	Collage	A= 12000 SGT Qg= 0.00 Qm= 0.00 alpha= 0.222 OPF= 0.00		10000.0 MPa	n= 0.35		Collage	
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CR: 6 bbsg-0/10-C3 CB: retraitementulsionM3R1 Surélévation: 6 cm 665 €/ml	2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: RETRAITEMENT-EPULSION-M3R1 (5.0 cm) 643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml	2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: RETRAITEMENT-EPULSION-M3R1 (5.0 cm) 643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml		2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: RETRAITEMENT-EPULSION-M3R1 (7.0 cm) 734 €/ml 270 M3/ml # 15 Kg.eq.CO2/ml # 0 t gra/ml		2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: RETRAITEMENT-EPULSION-M3R1 (5.0 cm) 643 €/ml 262 M3/ml # 14 Kg.eq.CO2/ml # 0 t gra/ml																																																																						
CR: 6 bbsg-0/10-C3 CB: gb-0/14-C3 Surélévation: 14 cm 668 €/ml	2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: GB-0/14-CLASSE-3 (8.0 cm) 668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml	2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: GB-0/14-CLASSE-3 (8.0 cm) 668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml		2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: GB-0/14-CLASSE-3 (8.0 cm) 668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml		2021: BB5G-0/10-CLASSE-3 (6.0 cm) 2021: GB-0/14-CLASSE-3 (8.0 cm) 668 €/ml 553 M3/ml # 30 Kg.eq.CO2/ml # 1 t gra/ml																																																																						
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Merci pour votre attention

